

Research outputs

Listing of Research outputs

Converging evidence points towards a role of insulin signaling in regulating compulsive behavior

van de Vondervoort, I. I. G. M., Amiri, H., Bruchhage, M. M. K., Oomen, C. A., Rustogi, N., Cooper, J. D., van Asten, J. J. A., Heerschap, A., Bahn, S., Williams, S. C. R., Buitelaar, J. K., Poelmans, G. & Glennon, J. C., 12 Sep 2019, In : *Translational psychiatry*. 9, 1, p. 225

Research output: Contribution to journal › Article

Towards a neuroscience-based theory of personality: within-subjects dissociation of human brain activity during pursuit and goal conflict

Perkins, A. M., Strawbridge, R., Arnone, D., Williams, S. C. R., Gasston, D., Cleare, A. J., O'Daly, O., Kumari, V., Ettinger, U. & Corr, P. J., 31 Jul 2019, In : *Personality neuroscience*. e4.

Research output: Contribution to journal › Article

Similarities between borderline personality disorder and post traumatic stress disorder: Evidence from resting-state meta-analysis

Amad, A., Radua, J., Vaiva, G., Williams, S. CR. & Fovet, T., 29 Jul 2019, In : *Neuroscience and Biobehavioral Reviews*. 105, p. 52-59 8 p.

Research output: Contribution to journal › Review article

Effects of cannabidiol on brain excitation and inhibition systems; a randomised placebo-controlled single dose trial during magnetic resonance spectroscopy in adults with and without autism spectrum disorder

Pretzsch, C. M., Freyberg, J., Voinescu, B. I., Lythgoe, D. J., Horder, J., Mendez, M. A., Wichers, R. H., Ajram, L. A., Ivin, G., Heasman, M., Edden, R. AE., Williams, S. C. R., Murphy, D. G., Daly, E. & McAlonan, G. M., 1 Jul 2019, In : *Neuropsychopharmacology*. 44, 8, p. 1398-1405 8 p.

Research output: Contribution to journal › Article

The effect of cannabidiol (CBD) on low-frequency activity and functional connectivity in the brain of adults with and without autism spectrum disorder (ASD)

Pretzsch, C. M., Voinescu, B., Mendez, M. A., Wichers, R., Ajram, L., Ivin, G., Heasman, M., Williams, S., Murphy, D. GM., Daly, E. & McAlonan, G. M., 25 Jun 2019, In : *Journal of Psychopharmacology*.

Research output: Contribution to journal › Article

Neurochemical Effects of Oxytocin in People at Clinical High Risk for Psychosis

Davies, C., Rutigliano, G., De Micheli, A. I., Stone, J. M., Ramella-Cravaro, V., Provenzani, U., Cappucciati, M., Scutt, E., Paloyelis, Y., Oliver, D. A. P., Murguia, S., Zelaya, F. O., Allen, P., Shergill, S. S., Morrison, P. D., Williams, S. C. R., Taylor, D. M., Lythgoe, D. J., McGuire, P. & Fusar-Poli, P., 1 May 2019, In : *European Neuropsychopharmacology*. 29, 5, p. 601-615 15 p.

Research output: Contribution to journal › Article

Verbal Fluency Is Affected by Altered Brain Lateralization in Adults Who Were Born Very Preterm

Tseng, C-E. J., Froudust-Walsh, S., Kroll, J., Karolis, V., Brittain, P. J., Palamin, N., Clifton, H., Counsell, S. J., Williams, S. C. R., Murray, R. M. & Nosarti, C., 20 Apr 2019, In : *eNeuro*. 6, 2, e0274-18.2018.

Research output: Contribution to journal › Article

Familial risk of autism alters subcortical and cerebellar brain anatomy in infants and predicts the emergence of repetitive behaviors in early childhood

BASIS Team, 1 Apr 2019, In : *Autism research : official journal of the International Society for Autism Research*. 12, 4, p. 614-627 14 p.

Research output: Contribution to journal › Article

Functional brain networks and neuroanatomy underpinning nausea severity can predict nausea susceptibility using machine learning

Ruffle, J. K., Patel, A., Giampietro, V., Howard, M. A., Sanger, G., Andrews, P. L. R., Williams, S. C. R., Aziz, Q. & Farmer, A. D., 15 Mar 2019, In : *The Journal of Physiology*. 597, 6, p. 1517-1529 13 p.

Research output: Contribution to journal › Article

Brain activation during human defensive behaviour: a systematic review and preliminary meta-analysis

Patrick, F., Kempton, M. J., Marwood, L., Williams, S. C. R., Young, A. H. & Perkins, A. M., 1 Mar 2019, In : Neuroscience and Biobehavioral Reviews. 98, p. 71-84 14 p.

Research output: Contribution to journal > Review article

Delta-9-tetrahydrocannabinol increases striatal glutamate levels in healthy individuals: implications for psychosis

Colizzi, M., Weltens, N., McGuire, P., Lythgoe, D., Williams, S., Van Oudenhove, L. & Bhattacharyya, S., 15 Feb 2019, In : Molecular Psychiatry. 24, p. 100-107 8 p.

Research output: Contribution to journal > Article

Oxytocin Modulates Hippocampal Perfusion in People at Clinical High Risk for Psychosis

Davies, C., Paloyelis, Y., Rutigliano, G., Cappucciati, M., De Micheli, A., Ramella-Cravaro, V., Provenzani, U., Antoniadou, M., Modinos, G., Oliver, D., Stahl, D., Murguia, S., Zelaya, F., Allen, P., Shergill, S., Morrison, P., Williams, S., Taylor, D., McGuire, P. & Fusar-Poli, P., 9 Jan 2019, In : Neuropsychopharmacology. 44, 7, p. 1300-1309 10 p.

Research output: Contribution to journal > Article

Hyperperfusion of Frontal White and Subcortical Gray Matter in Autism Spectrum Disorder

Peterson, B. S., Zargarian, A., Peterson, J. B., Goh, S., Sawardekar, S., Williams, S. C. R., Lythgoe, D. J., Zelaya, F. O. & Bansal, R., 21 Dec 2018, In : Biological psychiatry. 84, p. 100-107 8 p.

Research output: Contribution to journal > Article

Increased cerebral blood flow after single dose of antipsychotics in healthy volunteers depends on dopamine D2 receptor density profiles

Selvaggi, P., Hawkins, P. C. T., Dipasquale, O., Rizzo, G., Bertolino, A., Dukart, J., Sambataro, F., Pergola, G., Williams, S. C. R., Turkheimer, F., Zelaya, F., Veronese, M. & Mehta, M. A., 13 Dec 2018, In : NeuroImage. 188, p. 774-784 11 p.

Research output: Contribution to journal > Article

Stroke recovery in rats after 24h-delayed, intramuscular neurotrophin-3 infusion

Duricki, D. A., Drndarski, S., Bernanos, M., Wood, T., Bosch, K., Chen, Q., Shine, H. D., Simmons, C., Williams, S. C. R., McMahon, S. B., Begley, D. J., Cash, D. & Moon, L. D. F., 7 Dec 2018, In : Annals of Neurology. 84, p. 100-107 8 p.

Research output: Contribution to journal > Article

No evidence of differences in cognitive control in children with Autism Spectrum Disorder or Obsessive-Compulsive Disorder: an fMRI study

Gooskens, B., Bos, D. J., Mensen, V. T., Shook, D. A., Bruchhage, M., Naaijen, J., Wolf, I., Brandeis, D., Williams, S. C. R., Buitelaar, J. K., Oranje, B. & Durston, S., 29 Nov 2018, In : Developmental Cognitive Neuroscience. 33, p. 100-107 8 p.

Research output: Contribution to journal > Article

The benefit of minocycline on negative symptoms of schizophrenia in patients with recent-onset psychosis (BeneMin): a randomised, double-blind, placebo-controlled trial

Deakin, B., Suckling, J., Barnes, T. R. E., Byrne, K., Chaudhry, I. B., Dazzan, P., Drake, R. J., Giordano, A., Husain, N., Jones, P. B., Joyce, E., Knox, E., Krynicki, C., Lawrie, S. M., Lewis, S., Lisiecka-Ford, D. M., Nikkheslat, N., Pariante, C. M., Smallman, R., Watson, A. & 4 othersWilliams, S. C. R., Upthegrove, R., Dunn, G. & BeneMin Study team, Nov 2018, In : The lancet. Psychiatry. 5, 11, p. 885-894 10 p.

Research output: Contribution to journal > Article

Frontostriatal functional connectivity correlates with repetitive behaviour across autism spectrum disorder and obsessive-compulsive disorder

Akkermans, S. E. A., Rheinheimer, N., Bruchhage, M. M. K., Durston, S., Brandeis, D., Banaschewski, T., Boecker-Schlier, R., Wolf, I., Williams, S. C. R., Buitelaar, J. K., van Rooij, D., Oldehinkel, M. & TACTICS consortium, 26 Oct 2018, In : Psychological Medicine. p. 1-9 9 p.

Research output: Contribution to journal > Article

Using fMRI and machine learning to predict symptom improvement following cognitive behavioural therapy for psychosis

Tolmeijer, E., Kumari, V., Peters, E., Williams, S. C. R. & Mason, L., 10 Oct 2018, In : NeuroImage: Clinical. 20, p. 100-107 8 p.

Research output: Contribution to journal > Article

Prescreening clinical trial volunteers using an online personality questionnaire

Patrick, F., Young, A. H., Williams, S. C. R. & Perkins, A. M., 5 Sep 2018, In : *Neuropsychiatric Disease and Treatment* . 14, p. 2297-2303 6 p.

Research output: [Contribution to journal](#) › [Article](#)

Meta-Analysis of 89 Structural MRI Studies in Posttraumatic Stress Disorder and Comparison With Major Depressive Disorder

Bromis, K., Calem, M., Reinders, A. A. T. S., Williams, S. C. R. & Kempton, M. J., 19 Jul 2018, In : *The American Journal of Psychiatry*.

Research output: [Contribution to journal](#) › [Article](#)

A morphometric signature of depressive symptoms in unmedicated patients with mood disorders

Wise, T., Marwood, L., Perkins, A. M., Herane Vives, A. R., Williams, S. C. R., Young, A., Cleare, A. J. & Arnone, D., Jul 2018, In : *Acta Psychiatrica Scandinavica*. 138, 1, p. 73-82

Research output: [Contribution to journal](#) › [Article](#)

Alterations in brain microstructure in rats that develop abnormal aggression following peripubertal stress

Walker, S. E., Wood, T. C., Cash, D., Mesquita, M., Williams, S. C. R. & Sandi, C., Jul 2018, In : *European Journal of Neuroscience*. 48, 2, p. 1818-1832

Research output: [Contribution to journal](#) › [Article](#)

Modulation of acute effects of delta-9-tetrahydrocannabinol on psychotomimetic effects, cognition and brain function by previous cannabis exposure

Colizzi, M., McGuire, P., Giampietro, V., Williams, S., Brammer, M. & Bhattacharyya, S., 21 Jun 2018, In : *European Neuropsychopharmacology*.

Research output: [Contribution to journal](#) › [Article](#)

Small vessels, dementia and chronic diseases - molecular mechanisms and pathophysiology

Horsburgh, K., Wardlaw, J. M., van Agtmael, T., Allan, S. M., Ashford, M. L. J., Bath, P. M., Brown, R., Berwick, J., Cader, M. Z., Carare, R. O., Davis, J. B., Duncombe, J., Farr, T. D., Fowler, J. H., Goense, J., Granata, A., Hall, C. N., Hainsworth, A. H., Harvey, A., Hawkes, C. A. & 26 others Joutel, A., Kalaria, R. N., Kehoe, P. G., Lawrence, C. B., Lockhart, A., Love, S., Macleod, M. R., Macrae, I. M., Markus, H. S., McCabe, C., McColl, B. W., Meakin, P. J., Miller, A., Nedergaard, M., O'Sullivan, M., Quinn, T. J., Rajani, R., Saksida, L. M., Smith, C., Smith, K. J., Touyz, R. M., Trueman, R. C., Wang, T., Williams, A., Williams, S. C. R. & Work, L. M., Apr 2018, In : *Clinical Science*. 132, 8, p. 851-868 18 p.

Research output: [Contribution to journal](#) › [Article](#)

Group II metabotropic glutamate receptor agonist prodrugs LY2979165 and LY2140023 attenuate the functional imaging response to ketamine in healthy subjects

Mehta, M. A., Schmechtig, A., Kotoula, V., McColm, J., Jackson, K., Brittain, C., Tauscher-Wisniewski, S., Kinon, B. J., Morrison, P. D., Pollak, T., Mant, T., Williams, S. C. R. & Schwarz, A. J., 21 Mar 2018, In : *Psychopharmacology*.

Research output: [Contribution to journal](#) › [Article](#)

Glutamatergic hypofunction in medication-free major depression: Secondary effects of affective diagnosis and relationship to peripheral glutaminase

Wise, T., Taylor, M. J., Herane Vives, A., Marino Gammazza, A., Cappello, F., Lythgoe, D. J., Williams, S. C. R., Young, A. H., Cleare, A. J. & Arnone, D., 27 Feb 2018, In : *Journal of Affective Disorders*. 234, p. 214-219 JAD_2017_998_R1.

Research output: [Contribution to journal](#) › [Article](#)

Test-retest reliability and longitudinal analysis of automated hippocampal subregion volumes in healthy ageing and Alzheimer's disease populations

Worker, A., Dima, D., Combes, A., Crum, W. R., Streffer, J., Einstein, S., Mehta, M. A., Barker, G. J., Williams, S. C. R. & O'Daly, O., 16 Jan 2018, In : *Human Brain Mapping*. 12 p., 23948.

Research output: [Contribution to journal](#) › [Article](#)

Morphology of subcortical brain nuclei is associated with autonomic function in healthy humans

Ruffle, J. K., Coen, S. J., Giampietro, V., Williams, S. C. R., Apkarian, A. V., Farmer, A. D. & Aziz, Q., Jan 2018, In : *Human Brain Mapping*. 39, 1, p. 381-392

Research output: [Contribution to journal](#) › [Article](#)

Using fMRI to evaluate the effects of milnacipran on central pain processing in patients with fibromyalgia

Petzke, F., Jensen, K. B., Kosek, E., Choy, E., Carville, S., Fransson, P., Williams, S. C. R., Marcus, H., Mainguy, Y., Ingvar, M. & Gracely, R. H., 29 Dec 2017, In : *Scandinavian Journal of Pain*. 4, 2, p. 65-74 10 p.

Research output: Contribution to journal > Article

Brain structure in women at risk of postpartum psychosis: an MRI study

Fusté, M., Pauls, A., Worker, A., Reinders, A. A. T. S., Simmons, A., Williams, S. C. R., Haro, J. M., Hazelgrove, K., Pawlby, S., Conroy, S., Vecchio, C., Seneviratne, G., Pariante, C. M., Mehta, M. A. & Dazzan, P., 18 Dec 2017, In : *Translational psychiatry*. 7, 12, p. 1286

Research output: Contribution to journal > Article

Obstructive Sleep Apnoea and Alzheimer's Disease: in Search of Shared Pathomechanisms

Polsek, D., Gildeh, N., Cash, D., Winsky-Sommerer, R., Williams, S. C. R., Turkheimer, F., Leschziner, G. D., Morrell, M. J. & Rosenzweig, I., 7 Dec 2017, In : *Neuroscience and Biobehavioral Reviews*.

Research output: Contribution to journal > Article

Clinical utility of magnetic resonance imaging in first-episode psychosis

Falkenberg, I., Benetti, S., Raffin, M., Wuyts, P., Pettersson-Yeo, W., Dazzan, P., Morgan, K. D., Murray, R. M., Marques, T. R., David, A. S., Jarosz, J., Simmons, A., Williams, S. & McGuire, P., Oct 2017, In : *The British journal of psychiatry : the journal of mental science*. 211, 4, p. 231-237 7 p.

Research output: Contribution to journal > Article

Volumetric grey matter alterations in adolescents and adults born very preterm suggest accelerated brain maturation

Karolis, V. R., Froudust-Walsh, S., Kroll, J., Brittain, P. J., Tseng, C-E. J., Nam, K-W., Reinders, A. A. T. S., Murray, R. M., Williams, S. C. R., Thompson, P. M. & Nosarti, C., 20 Sep 2017, In : *NeuroImage*. 163, p. 379-389

Research output: Contribution to journal > Article

Brain connectivity changes occurring following cognitive behavioural therapy for psychosis predict long-term recovery

Mason, L., Peters, E., Williams, S. C. & Kumari, V., 15 Aug 2017, In : *Translational psychiatry*. 7, 8, p. e1210

Research output: Contribution to journal > Article

Brain connectivity changes occurring following cognitive behavioural therapy for psychosis predict long-term recovery

Mason, L., Peters, E., Williams, S. C. & Kumari, V., 15 Aug 2017, In : *Translational psychiatry*. 7, 1, p. e1001 7 p.

Research output: Contribution to journal > Article

Mother-infant interactions and regional brain volumes in infancy: an MRI study

Sethna, V., Pote, I., Wang, S., Gudbrandsen, M., Blasi, A., McCusker, C., Daly, E., Perry, E., Adams, K. P. H., Kuklisova-Murgasova, M., Busuulwa, P., Lloyd-Fox, S., Murray, L., Johnson, M. H., Williams, S. C. R., Murphy, D. G. M., Craig, M. C. & McAlonan, G. M., Jul 2017, In : *Brain structure & function*. 222, 5, p. 2379-2388

Research output: Contribution to journal > Article

Shifting brain inhibitory balance and connectivity of the prefrontal cortex of adults with autism spectrum disorder

Ajram, L. A., Horder, J., Mendez, M. A., Galanopoulos, A., Brennan, L. P., Wichers, R. H., Robertson, D. M., Murphy, C. M., Zinkstok, J., Ivin, G., Heasman, M., Meek, D., Tricklebank, M. D., Barker, G. J., Lythgoe, D. J., Edden, R. A. E., Williams, S. C., Murphy, D. G. M. & McAlonan, G. M., 23 May 2017, In : *Translational psychiatry*. 7, 5, e1137.

Research output: Contribution to journal > Article

Modulation of Anxiety-Relevant Neural Circuits in Generalized Anxiety Disorder: A Novel Cholinergic System Pharmacotherapy Approach

Young, A., Patrick, F., Wise, T., Meyer, N., Mazibuko, N., Oates, A. E., van der Bijl, A. M. H., Danjou, P., O'Connor, S., Doolin, E., Wooldridge, C., Macare, C., Williams, S. C. R., Perkins, A. & Young, A., 15 May 2017, In : *Biological psychiatry*. 81, 10, p. S70-S70

Research output: Contribution to journal > Meeting Abstract

Instability of default mode network connectivity in major depression: a two-sample confirmation study

Wise, T., Marwood, L., Perkins, A.M., Herane-Vives, A., Joules, R., Lythgoe, D.J., Luh, W.-M., Williams, S.C.R., Young, A.H., Cleare, A.J. & Arnone, D., 25 Apr 2017, In : *Translational psychiatry*. 7, 4, e1105.

Research output: Contribution to journal > Article

Corticolimbic hyper-response to emotion and glutamatergic function in people with high schizotypy: a multimodal fMRI-MRS study

Modinos, G., McLaughlin, A., Egerton, A., McMullen, K., Kumari, V., Barker, G. J., Keyesers, C. & Williams, S. C. R., 4 Apr 2017, In : *Translational psychiatry*. 7, 4, e1083.

Research output: Contribution to journal > Article

Association Between the Probability of Autism Spectrum Disorder and Normative Sex-Related Phenotypic Diversity in Brain Structure

Ecker, C., Andrews, D. S., Gudbrandsen, C. M., Marquand, A. F., Ginestet, C. E., Daly, E. M., Murphy, C., Lai, M.-C., Lombardo, M. V., Ruigrok, A. N. V., Bullmore, E. T., Suckling, J., Williams, S. C. R., Baron-Cohen, S., Craig, M. C., Murphy, D. G. M. & Medical Research Council Autism Imaging Multicentre Study (MRC AIMS) Consortium, 1 Apr 2017, In : *JAMA Psychiatry*. 74, 4, p. 329-338 10 p.

Research output: Contribution to journal > Article

Characterization of the resting-state brain network topology in the 6-hydroxydopamine rat model of Parkinson's disease

Westphal, R., Simmons, C., Mesquita, M. B., Wood, T. C., Williams, S. C. R., Vernon, A. C. & Cash, D., 1 Mar 2017, In : *PLoS ONE*. 12, 3, p. e0172394

Research output: Contribution to journal > Article

Motor Learning Induces Plasticity in the Resting Brain-Drumming Up a Connection

Amad, A., Seidman, J., Draper, S. B., Bruchhage, M. M. K., Lowry, R. G., Wheeler, J., Robertson, A., Williams, S. C. R. & Smith, M. S., 1 Mar 2017, In : *Cerebral cortex (New York, N.Y. : 1991)*. 27, 3, p. 2010-2021 12 p.

Research output: Contribution to journal > Article

A Multi-Cohort Study of ApoE 4 and Amyloid- β Effects on the Hippocampus in Alzheimer's Disease

Khan, W., Giampietro, V., Banaschewski, T., Barker, G. J., Bokde, A. L. W., Büchel, C., Conrod, P., Flor, H., Frouin, V., Garavan, H., Gowland, P., Heinz, A., Ittermann, B., Lemaître, H., Nees, F., Paus, T., Pausova, Z., Rietschel, M., Smolka, M. N., Ströhle, A. & 19 othersGallinat, J., Vellas, B., Soininen, H., Kloszewska, I., Tsolaki, M., Mecocci, P., Spenger, C., Villemagne, V. L., Masters, C. L., Muehlboeck, J. S., Bäckman, L., Fratiglioni, L., Kalpouzos, G., Wahlund, L. O., Schumann, G., Lovestone, S., Williams, S. C. R., Westman, E. & Simmons, A., 3 Feb 2017, In : *JOURNAL OF ALZHEIMERS DISEASE*. 56, 3, p. 1159-1174 16 p.

Research output: Contribution to journal > Article

Reduced perfusion in Broca's area in developmental stuttering

Desai, J., Huo, Y., Wang, Z., Bansal, R., Williams, S. C. R., Lythgoe, D., Zelaya, F. O. & Peterson, B. S., 30 Dec 2016, In : *Human Brain Mapping*.

Research output: Contribution to journal > Article

TAK-063, a phosphodiesterase 10A inhibitor, modulates neuronal activity in various brain regions in phMRI and EEG studies with and without ketamine challenge

Tomimatsu, Y., Cash, D., Suzuki, M., Suzuki, K., Bernanos, M., Simmons, C., Williams, S. C. R. & Kimura, H., 17 Dec 2016, In : *Neuroscience*. 339, p. 180-190 11 p.

Research output: Contribution to journal > Article

Fronto-Striatal Glutamate in Autism Spectrum Disorder and Obsessive Compulsive Disorder

Naaijen, J., Zwiers, M. P., Amiri, H., Williams, S. C. R., Durston, S., Oranje, B., Brandeis, D., Boecker-Schlier, R., Ruf, M., Wolf, I., Banaschewski, T., Glennon, J. C., Franke, B., Buitelaar, J. K. & Lythgoe, D. J., 14 Dec 2016, In : *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*.

Research output: Contribution to journal > Article

Evolution of structural abnormalities in the rat brain following in utero exposure to maternal immune activation: A longitudinal in vivo MRI study

Crum, W. R., Sawiak, S. J., Chege, W., Cooper, J. D., Williams, S. C. R. & Vernon, A. C., 9 Dec 2016, In : *Brain, Behavior, and Immunity*.

COMPULS: Design of a multicenter phenotypic, cognitive, genetic, and magnetic resonance imaging study in children with compulsive syndromes

Naaijen, J., de Ruiter, S., Zwiers, M. P., Glennon, J. C., Durston, S., Lythgoe, D. J., Williams, S. C. R., Banaschewski, T., Brandeis, D., Franke, B. & Buitelaar, J. K., 26 Oct 2016, In : *BMC Psychiatry*. 16, 1, p. 361 361.

Research output: Contribution to journal › Article

A multimodal imaging study of recognition memory in very preterm born adults: Imaging Recognition Memory in Very Preterm Born Adults

Tseng, C. J., Froudust-walsh, S., Brittain, P. J., Karolis, V., Caldinelli, C., Kroll, J., Counsell, S. J., Williams, S. C. R., Murray, R. M. & Nosarti, C., 20 Sep 2016, In : *Human Brain Mapping*.

Research output: Contribution to journal › Article

Chronic exposure to haloperidol and olanzapine leads to common and divergent shape changes in the rat hippocampus in the absence of grey-matter volume loss

Crum, W. R., Danckaers, F., Huysmans, T., Cotel, M. C., Natesan, S., Mado, M. M., Sijbers, J., Williams, S. C. R., Kapur, S. & Vernon, A. C., 12 Aug 2016, In : *Psychological Medicine*. p. 1-13 13 p.

Research output: Contribution to journal › Article

Making use of longitudinal information in pattern recognition

Aksman, L., Lythgoe, D. J., Williams, S. C. R., Jokisch, M., Mönninghoff, C., Streffer, J., Jöckel, K-H., Weimar, C. & Marquand, A. F., 25 Jul 2016, In : *Human Brain Mapping*.

Research output: Contribution to journal › Article

Effects of antipsychotics on cortisol, interleukin-6 and hippocampal perfusion in healthy volunteers

Handley, R., Mondelli, V., Zelaya, F. O., Reis Marques, T. A., Taylor, H., Reinders, A. A. T. S., Chaddock, C., McQueen, G., Hubbard, K., Papadopoulos, A., Williams, S. C. R., McGuire, P., Pariante, C. M. & Dazzan, P., 22 Apr 2016, In : *Schizophrenia Research*.

Research output: Contribution to journal › Article

The Analgesic Effect Of Oxytocin In Humans: A Double-Blinded Placebo Controlled Cross-Over Study Using Laser-Evoked Potentials

Paloyelis, Y., Krahé, C., Maltezos, S., Williams, S. C., Howard, M. A. & Fotopoulou, A., Apr 2016, In : *Journal of Neuroendocrinology*. 28, 4

Research output: Contribution to journal › Article

Cognitive load and autonomic response patterns under negative priming demand in Depersonalisation-Derealisation Disorder

Lemche, E., Sierra-Siegert, M., David, A. S., Phillips, M. L., Gasston, D., Williams, S. C. R. & Giampietro, V. P., 15 Feb 2016, In : *European Journal of Neuroscience*.

Research output: Contribution to journal › Article

Reinforcement of the Brain's Rich-Club Architecture Following Early Neurodevelopmental Disruption Caused by Very Preterm Birth

Karolis, V. R., Froudust-Walsh, S., Brittain, P. J., Kroll, J., Ball, G., Edwards, A. D., Dell'Acqua, F., Williams, S. C., Murray, R. M. & Nosarti, C., 7 Jan 2016, In : *Cerebral cortex (New York, N.Y. : 1991)*.

Research output: Contribution to journal › Article

Investigating virtual reality navigation in amnesic mild cognitive impairment using fMRI

Migo, E. M., O'Daly, O., Mitterschiffthaler, M., Antonova, E., Dawson, G. R., Dourish, C. T., Craig, K. J., Simmons, A., Wilcock, G. K., McCulloch, E., Jackson, S. H. D., Kopelman, M. D., Williams, S. C. R. & Morris, R. G., 2016, In : *Aging, Neuropsychology and Cognition*. 23:2, p. 196-217 DOI:10.1080/13825585.2015.1073218.

Research output: Contribution to journal › Article

Is it me? Verbal self-monitoring neural network and clinical insight in schizophrenia

Sapara, A., Ffytche, D. H., Cooke, M. A., Williams, S. C. R. & Kumari, V., 30 Dec 2015, In : *Psychiatry Research*. 234, 3, p. 328–335

Research output: Contribution to journal › Article

Mapping Depression in Schizophrenia: A Functional Magnetic Resonance Imaging Study

Kumari, V., Peters, E., Guinn, A., Fannon, D., Russell, T., Sumich, A., Kuipers, E., Williams, S. C. R. & Ffytche, D. H., 27 Dec 2015, In : *Schizophrenia Bulletin*.

Research output: Contribution to journal › Article

Very Early Brain Damage Leads to Remodeling of the Working Memory System in Adulthood: A Combined fMRI/Tractography Study

Froudust-Walsh, S., Karolis, V., Caldinelli, C., Brittain, P. J., Kroll, J., Rodríguez-Toscano, E., Tesse, M., Colquhoun, M., Howes, O., Dell'Acqua, F., Thiebaut de Schotten, M., Murray, R. M., Williams, S. C. R. & Nosarti, C., 2 Dec 2015, In : *Journal of Neuroscience*. 35, 48, p. 15787-99 13 p.

Research output: Contribution to journal › Article

Longitudinal in vivo maturational changes of metabolites in the prefrontal cortex of rats exposed to polyinosinic-polycytidylic acid in utero

Vernon, A. C., So, P-W., Lythgoe, D. J., Chege, W., Cooper, J. D., Williams, S. C. R. & Kapur, S., Dec 2015, In : *European Neuropsychopharmacology*. 25, 12, p. 2210–2220

Research output: Contribution to journal › Article

Delayed intramuscular human neurotrophin-3 improves recovery in adult and elderly rats after stroke

Duricki, D. A., Hutson, T. H., Kathe, C., Soleman, S., Gonzalez-Carter, D., Petruska, J. C., Shine, H. D., Chen, Q., Wood, T. C., Bernanos, M., Cash, D., Williams, S. C. R., Gage, F. H. & Moon, L. D. F., 27 Nov 2015, In : *Brain : a journal of neurology*. 139, 1, p. 259-275

Research output: Contribution to journal › Article

Impaired fear recognition and attentional set-shifting is associated with brain structural changes in alcoholic patients

Trick, L., Kempton, M. J., Williams, S. C. R. & Duka, T., Nov 2015, In : *Addiction Biology*. 19, 6, p. 1041–1054 14 p.

Research output: Contribution to journal › Article

Ketamine induces a robust whole-brain connectivity pattern that can be differentially modulated by drugs of different mechanism and clinical profile

Joules, R., Doyle, O. M., Schwarz, A. J., O'Daly, O. G., Brammer, M., Williams, S. & Mehta, M. A., Nov 2015, In : *Psychopharmacology*. 232, 21, p. 4205-4218 14 p.

Research output: Contribution to journal › Article

Microglial activation in the rat brain following chronic antipsychotic treatment at clinically relevant doses

Cotel, M-C., Lenartowicz, E. M., Natesan, S., Mado, M. M., Cooper, J. D., Williams, S. C. R., Kapur, S. & Vernon, A. C., Nov 2015, In : *European Neuropsychopharmacology*. 25, 11, p. 2098–2107 10 p.

Research output: Contribution to journal › Article

Cognitive Behavioral Therapy Normalizes Functional Connectivity for Social Threat in Psychosis

Mason, L., Peters, E. R., Dima, D., Williams, S. C. & Kumari, V., 27 Oct 2015, In : *Schizophrenia Bulletin*. 9 p.

Research output: Contribution to journal › Article

Brain and cord myelin water imaging: A progressive multiple sclerosis biomarker

Kolind, S., Seddigh, A., Combes, A., Russell-Schulz, B., Tam, R., Yogendrakumar, V., Deoni, S., Sibtain, N. A., Traboulsee, A., Williams, S. C. R., Barker, G. J. & Brex, P. A., 3 Oct 2015, In : *NeuroImage: Clinical*. 9, p. 574-580 7 p.

Research output: Contribution to journal › Article

Atypical processing of voice sounds in infants at risk for Autism Spectrum Disorder

Blasi, A., Lloyd-Fox, S., Sethna, V., Brammer, M. J., Mercure, E., Murray, L., Williams, S. C. R., Simmons, A., Murphy, D. G. & Johnson, M. H., 1 Oct 2015, In : *Cortex; a journal devoted to the study of the nervous system and behavior*. 71, p. 122-133 12 p.

Research output: Contribution to journal › Article

Relationship between surface-based brain morphometric measures and intelligence in autism spectrum disorders: Influence of history of language delay

Balardin, J. B., Sato, J. R., Vieira, G., Feng, Y., Daly, E., Murphy, C., Murphy, D., Ecker, C. & MRC AIMS consortium, 1 Oct 2015, In : *Autism research*. 8, 5, p. 556-566 11 p.

Research output: Contribution to journal > Article

The cortical thickness phenotype of individuals with DISC1 translocation resembles schizophrenia

Doyle, O. M., Bois, C., Thomson, P., Romaniuk, L., Whitcher, B., Williams, S. C. R., Turkheimer, F. E., Stefansson, H., McIntosh, A. M., Mehta, M. A. & Lawrie, S. M., 1 Sep 2015, In : *The Journal of clinical investigation*. 125, 9, p. 3714-3722 9 p.

Research output: Contribution to journal > Article

Common and distinct neural effects of risperidone and olanzapine during procedural learning in schizophrenia: a randomised longitudinal fMRI study

Kumari, V., Ettinger, U., Lee, S. E., Deuschl, C., Anilkumar, A. P., Schmechtig, A., Corr, P. J., Ffytche, D. H. & Williams, S. C. R., Sep 2015, In : *Psychopharmacology*. 232, 17, p. 3135-3147 13 p.

Research output: Contribution to journal > Article

Cortical and subcortical glutathione levels in adults with autism spectrum disorder

Durieux, A. M. S., Horder, J., Hernandez, M. A., Egerton, A., Williams, S. C. R., Wilson, C. E., Spain, D., Murphy, C., Robertson, D., Barker, G. J., Murphy, D. G. & McAlonan, G. M., 20 Aug 2015, In : *Autism research*. 7 p.

Research output: Contribution to journal > Article

Attachment style moderates partner presence effects on pain: a laser-evoked potentials study

Krahé, C., Paloyelis, Y., Condon, H., Jenkinson, P. M., Williams, S. C. R. & Fotopoulou, A., Aug 2015, In : *Social Cognitive and Affective Neuroscience*. 10, 8, p. 1030-1037 8 p.

Research output: Contribution to journal > Article

Cerebral analgesic response to non-steroidal anti-inflammatory drug ibuprofen

Hodkinson, D. J., Khawaja, N., O'Daly, O., Thacker, M., Zelaya, F. O., Wooldrige, C. L., Renton, T., Williams, S. C. R. & Howard, M. A., Jul 2015, In : *Pain*. 156, 7, p. 1301-1310 10 p.

Research output: Contribution to journal > Article

Personalization of atrial electrophysiology models from decapolar catheter measurements

Corrado, C., Williams, S., Chubb, H., O'Neill, M. & Niederer, S. A., 21 Jun 2015, *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Springer-Verlag Berlin Heidelberg, Vol. 9126. p. 21-28 8 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 9126).

Research output: Chapter in Book/Report/Conference proceeding > Chapter

Plasma protein biomarkers of Alzheimer's disease endophenotypes in asymptomatic older twins: early cognitive decline and regional brain volumes

Kiddle, S. J., Steves, C. J., Mehta, M., Simmons, A., Xu, X., Newhouse, S., Sattlecker, M., Ashton, N., Bazenet, C., Killick, R., Adnan, J., Westman, E., Nelson, S., Soininen, H., Kloszewska, I., Mecocci, P., Tsolaki, M., Vellas, B., Curtis, C., Breen, G. & 4 others Williams, S. C. R., Lovestone, S., Spector, T. D. & Dobson, R. J. B., 16 Jun 2015, In : *Translational psychiatry*. 5, 6, 6 p., e584.

Research output: Contribution to journal > Article

Aberrant function of learning and cognitive control networks underlie inefficient cognitive flexibility in Anorexia Nervosa: A cross-sectional fMRI study

Lao-Kaim, N. P., Fonville, L., Giampietro, V. P., Williams, S. C. R., Simmons, A. & Tchanturia, K., 13 May 2015, In : *PLoS ONE*. 10, 5, 16 p., e0124027.

Research output: Contribution to journal > Article

Sleep apnoea and the brain: a complex relationship

Rosenzweig, I., Glasser, M., Polsek, D., Leschziner, G. D., Williams, S. & Morrell, M. J., May 2015, In : *The Lancet Respiratory Medicine*. 3, 5, p. 404-414 11 p.

Research output: Contribution to journal > Article

Online Open Neuroimaging Mass Meta-Analysis with a Wiki

Nielsen, F. Å., Kempton, M. & Williams, S., 21 Apr 2015, *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Springer-Verlag Berlin Heidelberg, Vol. 7540. p. 259-271 13 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 7540).

Research output: Chapter in Book/Report/Conference proceeding › Conference paper

White-matter relaxation time and myelin water fraction differences in young adults with autism

Zinkstok, J. R., Daly, E., Ecker, C., Williams, S. C. R., Murphy, D. G. M., Bailey, A. J., Baron-Cohen, S., Bolton, P. F., Bullmore, E. T., Carrington, S., Chakrabarti, B., Daly, E. M., Deoni, S. C. L., Ecker, C., Happe, F., Henty, J., Jezzard, P., Johnston, P., Jones, D. K., Lombardo, M. V. & 11 others Madden, A., Mullins, D., Murphy, C., Murphy, D. G., Pasco, G., Sadek, S. A., Spain, D., Steward, R., Suckling, J., Wheelwright, S. & Williams, S., 12 Mar 2015, In : *Psychological Medicine*. 45, 4, p. 795-805 11 p.

Research output: Contribution to journal › Article

Visually induced nausea causes characteristic changes in cerebral, autonomic and endocrine function in humans

Farmer, A. D., Ban, V. F., Coen, S. J., Sanger, G. J., Barker, G. J., Gresty, M. A., Giampietro, V. P., Williams, S. C., Webb, D.-L., Hellström, P. M., Andrews, P. L. & Aziz, Q., 1 Mar 2015, In : *The Journal of Physiology*. 593, 5, p. 1183-1196 14 p.

Research output: Contribution to journal › Article

Pharmacologic modulation of hand pain in osteoarthritis: A double-blind placebo-controlled functional magnetic resonance imaging study using naproxen

Sanders, D., Krause, K., O'Muirheartaigh, J., Thacker, M., Huggins, J. P., Vennart, W., Massat, N. J., Choy, E., Williams, S. C. R. & Howard, M. A., Mar 2015, In : *Arthritis and Rheumatology*. 67, 3, p. 741-751 11 p.

Research output: Contribution to journal › Article

Multivariate decoding of cerebral blood flow measures in a clinical model of on-going postsurgical pain

O'Muirheartaigh, J., Marquand, A., Hodkinson, D. J., Krause, K., Khawaja, N., Renton, T. F., Huggins, J. P., Vennart, W., Williams, S. C. R. & Howard, M. A., Feb 2015, In : *Human Brain Mapping*. 36, 2, p. 633-642 10 p.

Research output: Contribution to journal › Article

Cognitive behavioural therapy normalises functional connectivity for social threat in psychosis

Peters, E. R., Mason, L., Dima, D., Williams, S. C. R. & Kumari, V., 2015, In : *Schizophrenia Bulletin*.

Research output: Contribution to journal › Article

Cortical thickness, surface area and volume measures in Parkinson's disease, multiple system atrophy and progressive supranuclear palsy

Worker, A., Blain, C., Jarosz, J., Chaudhuri, K. R., Barker, G. J., Williams, S. C. R., Brown, R., Leigh, P. N. & Simmons, A., 2 Dec 2014, In : *PLoS One*. 9, 12, p. 1-15 15 p., e114167.

Research output: Contribution to journal › Article

Segregating the cerebral mechanisms of antidepressants and placebo in fibromyalgia

Jensen, K. B., Petzke, F., Carville, S., Choy, E., Fransson, P., Gracely, R. H., Vitton, O., Marcus, H., Williams, S. C. R., Ingvar, M. & Kosek, E., 1 Dec 2014, In : *JOURNAL OF PAIN*. 15, 12, p. 1328-1337 10 p.

Research output: Contribution to journal › Article

Diffusion Tensor Imaging of Parkinson's Disease, Multiple System Atrophy and Progressive Supranuclear Palsy: A Tract-Based Spatial Statistics Study

Worker, A., Blain, C., Jarosz, J., Chaudhuri, K. R., Barker, G. J., Williams, S. C. R., Brown, R. G., Leigh, P. N., Dell'Acqua, F. & Simmons, A., 18 Nov 2014, In : *PLoS One*. 9, 11, 11 p., e112638.

Research output: Contribution to journal › Article

Road work on memory lane-Functional and structural alterations to the learning and memory circuit in adults born very preterm

Salvan, P., Walsh, S. F., Allin, M. P. G., Walshe, M., Murray, R. M., Bhattacharyya, S., McGuire, P., Williams, S. C. R. & Nosarti, C., 5 Nov 2014, In : *NeuroImage*. 201, P1, p. 152-161 10 p.

Research output: Contribution to journal › Article

INVESTIGATING REPETITION AND CHANGE IN MUSICAL RHYTHM BY FUNCTIONAL MRI

Danielsen, A., Otnaess, M. K., Jensen, J., Williams, S. C. R. & Ostberg, B. C., 5 Sep 2014, In : *Neuroscience*. 275, p. 469-476 8 p.

Research output: Contribution to journal › Article

Circadian and homeostatic modulation of functional connectivity and regional cerebral blood flow in humans under normal entrained conditions

Hodkinson, D. J., O'Daly, O., Zunszain, P. A., Pariante, C. M., Lazurenko, V., Zelaya, F. O., Howard, M. A. & Williams, S. C. R., Sep 2014, In : *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*. 34, 9, p. 1493-1499 7 p.

Research output: Contribution to journal › Article

Physiological and psychological individual differences influence resting brain function measured by ASL perfusion

Kano, M., Coen, S., Farmer, A. D., Aziz, Q., Williams, S. C. R., Alsop, D. C., Fukudo, S. & O'Gorman, R. L., Sep 2014, In : *Brain structure & function*. 219, 5, p. 1673-1684 12 p.

Research output: Contribution to journal › Article

The effect of age, diagnosis, and their interaction on vertex-based measures of cortical thickness and surface area in autism spectrum disorder

Ecker, C., Shahidiani, A., Feng, Y., Daly, E., Murphy, C., D'Almeida, V., Deoni, S., Williams, S., Gillan, N., Gudbrandsen, M., Wichers, R., Andrews, D., Van Hemert, L. & Murphy, D. G. M., Sep 2014, In : *Journal of Neural Transmission*. 121, 9, p. 1157-1170 14 p.

Research output: Contribution to journal › Article

Are power calculations useful? A multicentre neuroimaging study

Suckling, J., Henty, J., Ecker, C., Deoni, S. C., Lombardo, M. V., Baron-Cohen, S., Jezzard, P., Barnes, A., Chakrabarti, B., Ooi, C., Lai, M-C., Williams, S. C., Murphy, D. G. M., Bullmore, E. & for the MRC AIMS Consortium, Aug 2014, In : *Human Brain Mapping*. 35, 8, p. 3569-3577 9 p.

Research output: Contribution to journal › Article

Anatomical predictors of aphasia recovery: a tractography study of bilateral perisylvian language networks

Forkel, S. J., Thiebaut De Schotten, M., Dell'Acqua, F., Kalra, L., Murphy, D. G. M., Williams, S. C. R. & Catani, M., 1 Jul 2014, In : *Brain*. 137, 7, p. 2027-2039 13 p.

Research output: Contribution to journal › Article

Alterations in brain structure in adults with anorexia nervosa and the impact of illness duration

Fonville, L., Giampietro, V., Williams, S. C. R., Simmons, A. & Tchanturia, K., Jul 2014, In : *Psychological Medicine*. 44, 9, p. 1965-1975 11 p.

Research output: Contribution to journal › Article

Provocation of Symmetry/Ordering Symptoms in Anorexia nervosa: A Functional Neuroimaging Study

Suda, M., Brooks, S. J., Giampietro, V., Uher, R., Mataix-Cols, D., Brammer, M. J., Williams, S. C. R., Treasure, J. & Campbell, I. C., 20 May 2014, In : *PLoS ONE*. 9, 5, p. N/A 8 p., e97998.

Research output: Contribution to journal › Article

Functional MRI investigation of verbal working memory in adults with anorexia nervosa

Lao-Kaim, N. P., Giampietro, V. P., Williams, S. C. R., Simmons, A. & Tchanturia, K., May 2014, In : *European Psychiatry*. 29, 4, p. 211-218 8 p.

Research output: Contribution to journal › Article

Classifying social anxiety disorder using multivoxel pattern analyses of brain function and structure

Frick, A., Gingnell, M., Marquand, A. F., Howner, K., Fischer, H., Kristiansson, M., Williams, S. C. R., Fredrikson, M. & Furmark, T., 1 Feb 2014, In : *Behavioural brain research*. 259, N/A, p. 330-335 6 p., N/A.

Research output: Contribution to journal › Article

Neural correlates of illusory line motion

Hamm, J. P., Crawford, T. J., Nebl, H., Kean, M., Williams, S. C. R. & Ettinger, U., 27 Jan 2014, In : PLoS ONE. 9, 1, p. N/A 11 p., e87595.

Research output: Contribution to journal › Article

Preservation and compensation: The functional neuroanatomy of insight and working memory in schizophrenia

Sapara, A., Ffytche, D. H., Birchwood, M., Cooke, M. A., Fannon, D., Williams, S. C. R., Kuipers, E. & Kumari, V., Jan 2014, In : Schizophrenia Research. 152, 1, p. 201-209 9 p., N/A.

Research output: Contribution to journal › Article

Alterations in working memory networks in amnesic mild cognitive impairment

Migo, E. M., Mitterschiffthaler, M., O'Daly, O., Dawson, G. R., Dourish, C. T., Craig, K. J., Simmons, A., Wilcock, G. K., McCulloch, E., Jackson, S. H. D., Kopelman, M. D., Williams, S. C. R. & Morris, R. G., 2014, In : Aging, Neuropsychology and Cognition. 22, 1, p. 106-127 22 p.

Research output: Contribution to journal › Article

Full Bayesian multi-task learning for multi-output brain decoding and accommodating missing data

Marquand, A. F., Williams, S. C. R., Doyle, O. M. & Rosa, M. J., 2014, *Proceedings - 2014 International Workshop on Pattern Recognition in Neuroimaging, PRNI 2014*. IEEE Computer Society Press, p. 1-4 6858533

Research output: Chapter in Book/Report/Conference proceeding › Conference paper

Increased BOLD signal in the fusiform gyrus during implicit emotion processing in anorexia nervosa

Fonville, L., Giampietro, V., Surguladze, S., Williams, S. & Tchanturia, K., 2014, In : NeuroImage: Clinical. 4, N/A, p. 266-273 8 p., N/A.

Research output: Contribution to journal › Article

Hippocampal hypertrophy and sleep apnea: a role for the ischemic preconditioning?

Rosenzweig, I., Kempton, M. J., Crum, W. R., Glasser, M., Milosevic, M., Beniczky, S., Corfield, D. R., Williams, S. & Morrell, M. J., 13 Dec 2013, In : PLoS ONE. 8, 12, 8 p., e83173.

Research output: Contribution to journal › Article

Overlapping Structural and Functional Brain Changes in Patients With Long-Term Exposure to Fibromyalgia Pain

Jensen, K. B., Srinivasan, P., Spaeth, R., Tan, Y., Kosek, E., Petzke, F., Carville, S., Fransson, P., Marcus, H., Williams, S. C. R., Choy, E., Vitton, O., Gracely, R., Ingvar, M. & Kong, J., Dec 2013, In : Arthritis & Rheumatism. 65, 12, p. 3293-3303 11 p., N/A.

Research output: Contribution to journal › Article

Sulforaphane preconditioning of the Nrf2/HO-1 defense pathway protects the cerebral vasculature against blood-brain barrier disruption and neurological deficits in stroke

Alfieri, A., Srivastava, S., Siow, R. C. M., Cash, D., Modo, M., Duchon, M. R., Fraser, P. A., Williams, S. C. R. & Mann, G. E., Dec 2013, In : Free Radical Biology and Medicine. 65, p. 1012-1022 11 p.

Research output: Contribution to journal › Article

Using genetic, cognitive and multi-modal neuroimaging data to identify ultra-high-risk and first-episode psychosis at the individual level

Pettersson-Yeo, W., Benetti, S., Marquand, A., Dell'Acqua, F., Williams, S. C. R., Allen, P., Prata, D., McGuire, P. & Mechelli, A., Dec 2013, In : Psychological Medicine. 43, 12, p. 2547-2562 16 p., N/A.

Research output: Contribution to journal › Article

Multivariate decoding of brain images using ordinal regression

Doyle, O. M., Ashburner, J., Zelaya, F. O., Williams, S. C. R., Mehta, M. A. & Marquand, A. F., 1 Nov 2013, In : NeuroImage. 81, N/A, p. 347-357 11 p., N/A.

Research output: Contribution to journal › Article

Elucidating neuroanatomical alterations in the at risk mental state and first episode psychosis: A combined voxel-based morphometry and voxel-based cortical thickness study

Benetti, S., Pettersson-Yeo, W., Hutton, C., Catani, M., Williams, S. C. R., Allen, P., Kambeitz-Ilankovic, L. M., McGuire, P. & Mechelli, A., Nov 2013, In : Schizophrenia Research. 150, 2-3, p. 505-511 7 p., N/A.

Research output: Contribution to journal › Article

Functional neuroanatomy of body checking in people with anorexia nervosa

Suda, M., Brooks, S., Giampietro, V., Friederich, H-C., Uher, R., Brammer, M. J., Williams, S. C. R., Campbell, I. C. & Treasure, J., Nov 2013, In : The International journal of eating disorders. 46, 7, p. 653-662 10 p., N/A.

Research output: Contribution to journal › Article

Psychophysiological responses to pain identify reproducible human clusters

Farmer, A. D., Coen, S. J., Kano, M., Paine, P. A., Shwahdi, M., Jafari, J., Kishor, J., Worthen, S. F., Rossiter, H. E., Kumari, V., Williams, S. C. R., Brammer, M., Giampietro, V. P., Droney, J., Riley, J., Furlong, P. L., Knowles, C. H., Lightman, S. L. & Aziz, Q., Nov 2013, In : Pain. 154, 11, p. 2266-2276 11 p., N/A.

Research output: Contribution to journal › Article

Interoceptive-reflective regions differentiate alexithymia traits in depersonalization disorder

Lemche, E., Brammer, M. J., David, A. S., Surguladze, S. A., Phillips, M. L., Sierra, M., Williams, S. C. R. & Giampietro, V. P., 30 Oct 2013, In : Psychiatry Research. Neuroimaging. 214, 1, p. 66-72 7 p.

Research output: Contribution to journal › Article

Can spherical deconvolution provide more information than fiber orientations? Hindrance modulated orientational anisotropy, a true-tract specific index to characterize white matter diffusion

Dell'Acqua, F., Simmons, A., Williams, S. C. R. & Catani, M., Oct 2013, In : Human Brain Mapping. 34, 10, p. 2464-2483 20 p., N/A.

Research output: Contribution to journal › Article

A link between FTO, ghrelin, and impaired brain food-cue responsivity

Karra, E., O'Daly, O. G., Choudhury, A. I., Yousseif, A., Millership, S., Neary, M. T., Scott, W. R., Chandarana, K., Manning, S., Hess, M. E., Iwakura, H., Akamizu, T., Millet, Q., Gelegen, C., Drew, M. E., Rahman, S., Emmanuel, J. J., Williams, S. C. R., R  ther, U. U., Br  ning, J. C. & 3 others Withers, D. J., Zelaya, F. O. & Batterham, R. L., 1 Aug 2013, In : The Journal of clinical investigation. 123, 8, p. 3539-3551 13 p., N/A.

Research output: Contribution to journal › Article

Blood-based biomarker discovery using aptamer capture (SOMAscan) platform technology

Sattlecker, M., Pritchard, M., Proitsi, P., Kiddle, S., Newhouse, S., Simmons, A., Johnston, C., Leung, R., Dixit, A., Bazenet, C., Soininen, H., Kloszewska, I., Mecocci, P., Tsolaki, M., Vellas, B., Stewart, A., Williams, S. C. R., Nelson, S., Lovestone, S. H. & Dobson, R. J. B., 1 Jul 2013, In : Alzheimer's Dementia: The Journal of the Alzheimer's Association. 9, 4, p. P861 1 p.

Research output: Contribution to journal › Article

Reduced Cortical Volume and Elevated Astrocyte Density in Rats Chronically Treated with Antipsychotic Drugs: Linking Magnetic Resonance Imaging Findings to Cellular Pathology

Vernon, A. C., Crum, W. R., Lerch, J. P., Chege, W., Natesan, S., Modo, M., Cooper, J. D., Williams, S. C. R. & Kapur, S., 15 Jun 2013, In : Biological psychiatry. 75, 12, p. 982-990 9 p.

Research output: Contribution to journal › Article

Evaluation of enhanced attention to local detail in anorexia nervosa using the embedded figures test; an fMRI study

Fonville, L., Lao-Kaim, N. P., Giampietro, V., Van den Eynde, F., Davies, H., Lounes, N., Andrew, C., Dalton, J., Simmons, A., Williams, S. C. R., Baron-Cohen, S. & Tchanturia, K., 14 May 2013, In : PLoS One. 8, 5, p. e63964

Research output: Contribution to journal › Article

Dopaminergic basis of the psychosis-prone personality investigated with functional magnetic resonance imaging of procedural learning

Ettinger, U., Corr, P. J., Mofidi, A., Williams, S. C. R. & Kumari, V., 15 Apr 2013, In : Frontiers In Human Neuroscience. 7, 130.

Research output: Contribution to journal › Article

Quantifying the Attenuation of the Ketamine Pharmacological Magnetic Resonance Imaging Response in Humans: A Validation Using Antipsychotic and Glutamatergic Agents

Doyle, O. M., De Simoni, S., Schwarz, A. J., Brittain, C., O'Daly, O. G., Williams, S. C. R. & Mehta, M. A., Apr 2013, In : Journal of Pharmacology and Experimental Therapeutics. 345, 1, p. 151-160 10 p.

Research output: Contribution to journal › Article

Registration of challenging pre-clinical brain images

Crum, W. R., Mado, M., Vernon, A. C., Barker, G. J. & Williams, S. C. R., Apr 2013, In : Journal of Neuroscience Methods. 216, 1, p. 62-77 16 p.

Research output: Contribution to journal › Article

Sex differences in brain response to anticipated and experienced visceral pain in healthy subjects

Kano, M., Farmer, A. D., Aziz, Q., Giampietro, V. P., Brammer, M. J., Williams, S. C. R., Fukudo, S. & Coen, S. J., Apr 2013, In : AMERICAN JOURNAL OF PHYSIOLOGY-GASTROINTESTINAL AND LIVER PHYSIOLOGY. 304, 8, p. G687-G699 13 p.

Research output: Contribution to journal › Article

Neural processing of criticism and positive comments from relatives in individuals with schizotypal personality traits

Premkumar, P., Williams, S. C. R., Lythgoe, D., Andrew, C., Kuipers, E. & Kumari, V., Feb 2013, In : World Journal of Biological Psychiatry. 14, 1, p. 57-70 14 p.

Research output: Contribution to journal › Article

The functional anatomy of suggested limb paralysis

Deeley, P., Oakley, D. A., Toone, B., Bell, V., Walsh, E., Marquand, A., Giampietro, V., Brammer, M. J., Williams, S. C. R., Mehta, M. A. & Halligan, P. W., Feb 2013, In : Cortex. 49, 2, p. 411-422 12 p., N/A.

Research output: Contribution to journal › Article

CrossTalk opposing view: the intermittent hypoxia attending severe obstructive sleep apnoea does not lead to alterations in brain structure and function

Rosenzweig, I., Williams, S. C. & Morrell, M. J., 15 Jan 2013, In : The Journal of Physiology. 591, 2, p. 383-385 3 p.

Research output: Contribution to journal › Article

Somatization severity associated with postero-medial complex structures

Lemche, E., Giampietro, V. P., Brammer, M. J., Surguladze, S. A., Williams, S. C. R. & Phillips, M., 7 Jan 2013, In : Scientific Reports. 3, 5 p., 1032.

Research output: Contribution to journal › Article

Test-retest reliability of the BOLD pharmacological MRI response to ketamine in healthy volunteers

De Simoni, S., Schwarz, A. J., O'Daly, O. G., Marquand, A., Brittain, C., Gonzales, C., Stephenson, S., Williams, S. C. R. & Mehta, M. A., 1 Jan 2013, In : NeuroImage. 64, p. 75-90 16 p.

Research output: Contribution to journal › Article

A novel method for reducing the effect of tonic muscle activity on the gamma band of the scalp EEG

Nottage, J., Morrison, P., Williams, S. & Ffytche, D., Jan 2013, In : Brain Topography. 26, 1, p. 50-61 12 p.

Research output: Contribution to journal › Article

Brain surface anatomy in adults with autism: the relationship between surface area, cortical thickness, and autistic symptoms

Ecker, C., Ginestet, C., Feng, Y., Johnston, P., Lombardo, M. V., Lai, M-C., Suckling, J., Palaniyappan, L., Daly, E., Murphy, C., Williams, S., Bullmore, E. T., Baron-Cohen, S., Brammer, M., Murphy, D. G. M. & MRC AIMS consortium, Jan 2013, In : JAMA Psychiatry. 70, 1, p. 59-70 12 p.

Research output: Contribution to journal › Article

Rebuttal from Ivana Rosenzweig, Steven C. Williams and Mary J. Morrell

Rosenzweig, I., Williams, S. C. & Morrell, A. J., Jan 2013, In : The Journal of Physiology. 591, 2, p. 389-389 1 p.

Advancing the defensive explanation for anxiety disorders: lorazepam effects on human defense are systematically modulated by personality and threat-type

Perkins, A. M., Ettinger, U., Weaver, K., Schmechtig, A., Schrantee, A., Morrison, P., Sapara, A., Kumari, V., Williams, S. C. R. & Corr, P. J., 2013, In : *Translational psychiatry*. 3, e246.

Research output: Contribution to journal › Article

Automated, high accuracy classification of parkinsonian disorders: a pattern recognition approach

Marquand, A., Filippone, M., Ashburner, J., Girolami, M., Mourao-Miranda, J., Barker, G. J., Williams, S. C. R., Leigh, P. N. & Blain, C. R. V., 2013, In : *PLoS ONE*. 8, 7, e69237.

Research output: Contribution to journal › Article

Brainstem structures are primarily affected in an experimental model of severe scorpion envenomation

Maia Guidine, P. A., Cash, D., Drumond, L. E., Rezende, G. H. D. S. E., Massensini, A. R., Williams, S. C. R., Moraes-Santos, T., Dutra Moraes, M. F. & Bernanos Soares Mesquita, M., 2013, In : *Toxicological sciences : an official journal of the Society of Toxicology*.

Research output: Contribution to journal › Article

Dissociable brain correlates for depression, anxiety, dissociation, and somatization in depersonalization-derealization disorder

Lemche, E., Surguladze, S. A., Brammer, M. J., Phillips, M. L., Sierra, M., David, A. S., Williams, S. C. R. & Giampietro, V. P., 2013, In : *CNS SPECTRUMS*. N/A, N/A, p. N/A 8 p., N/A.

Research output: Contribution to journal › Article

Quantifying the test-retest reliability of cerebral blood flow measurements in a clinical model of on-going post-surgical pain: A study using pseudo-continuous arterial spin labelling

Hodkinson, D. J., Krause, K., Khawaja, N., Renton, T. F., Huggins, J. P., Vennart, W., Thacker, M. A., Mehta, M. A., Zelaya, F. O., Williams, S. C. R. & Howard, M. A., 2013, In : *NeuroImage: Clinical*. 3, N/A, p. 301-310 10 p., N/A.

Research output: Contribution to journal › Article

Temporal Lobe Volume Abnormalities Precede the Prodrome: A Study of Children Presenting Antecedents of Schizophrenia

Cullen, A., De Brito, S. A., Gregory, S. L., Murray, R. M., Williams, S. C. R., Hodgins, S. & Laurens, K. R., 2013, In : *Schizophrenia Bulletin*. 39, 6, p. 1318-1327 9 p., N/A.

Research output: Contribution to journal › Article

The Effects of Ketamine and Risperidone on Eye Movement Control in Healthy Volunteers

Schmechtig, A., Lees, J., Perkins, A., Altavilla, A., Craig, K. J., Dawson, G. R., Deakin, J. F. W., Dourish, C. T., Evans, L. H., Koychev, I., Weaver, K., Smallman, R., Walter, J., Wilkinson, L. S., Morris, R., Williams, S. C. R. & Ettinger, U., 2013, In : *Translational psychiatry*. 3, N/A, p. N/A 10 p., e334.

Research output: Contribution to journal › Article

Alterations in resting-state regional cerebral blood flow demonstrate ongoing pain in osteoarthritis: An arterial spin-labeled magnetic resonance imaging study

Howard, M. A., Sanders, D., Krause, K., O Muircheartaigh, J., Fotopoulou, A., Zelaya, F., Thacker, M., Massat, N., Huggins, J. P., Vennart, W., Choy, E., Daniels, M. & Williams, S. C. R., Dec 2012, In : *Arthritis & Rheumatism*. 64, 12, p. 3936-3946 11 p.

Research output: Contribution to journal › Article

Preliminary report of biological basis of sensitivity to the effects of cannabis on psychosis: AKT1 and DAT1 genotype modulates the effects of δ -9-tetrahydrocannabinol on midbrain and striatal function

Bhattacharyya, S., Atakan, Z., Martin-Santos, R., Crippa, J. A., Kambeitz, J., Prata, D., Williams, S., Brammer, M., Collier, D. A. & McGuire, P. K., Dec 2012, In : *Molecular Psychiatry*. 17, 12, p. 1152-1155 4 p.

Research output: Contribution to journal › Article

Probabilistic prediction of neurological disorders with a statistical assessment of neuroimaging data modalities

Filippone, M., Marquand, A., Blain, C. R. V., Williams, S. C. R., Mourao-Miranda, J. & Girolami, M., Dec 2012, In : *Annals of Applied Statistics*. 6, 4, p. 1883-1905 23 p.

Research output: Contribution to journal › Article

Monitoring brain repair in stroke using advanced magnetic resonance imaging

Sztriha, L. K., O'Gorman, R. L., Modo, M., Barker, G. J., Williams, S. C. R. & Kalra, L., Nov 2012, In : *Stroke*. 43, 11, p. 3124-31 8 p.

Research output: Contribution to journal › Article

Reply to: Lithium and the Expanding Brain

Vernon, A. C., Natesan, S., Crum, W. R., Modo, M., Cooper, J. D., Williams, S. C. R. & Kapur, S., 1 Oct 2012, In : *Biological psychiatry*. 72, 7, p. E19 1 p.

Research output: Contribution to journal › Letter

Association between brain structure and psychometric schizotypy in healthy individuals

Ettlinger, U., Williams, S. C. R., Meisenzahl, E. M., Möller, H-J., Kumari, V. & Koutsouleris, N., Oct 2012, In : *The world journal of biological psychiatry : the official journal of the World Federation of Societies of Biological Psychiatry*. 13, 7, p. 544-549 6 p.

Research output: Contribution to journal › Article

To blink or not to blink: Fine cognitive tuning of the defensive peripersonal space

Sambo, C. F., Forster, B., Williams, S. & Iannetti, G. D., 12 Sep 2012, In : *Journal of Neuroscience*. 32, 37, p. 12921-12927 7 p.

Research output: Contribution to journal › Article

Withdrawal-associated increases and decreases in functional neural connectivity associated with altered emotional regulation in alcoholism

O'Daly, O., Trick, L., Scaife, J., Marshall, J., Ball, D., Phillips, M. L., Williams, S., Stephens, D. N. & Duka, T., Sep 2012, In : *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*. 37, 10, p. 2267-2776 10 p.

Research output: Contribution to journal › Article

Individual differences in brain structure underpin empathizing-systemizing cognitive styles in male adults

Lai, M-C., Lombardo, M. V., Chakrabarti, B., Ecker, C., Sadek, S. A., Wheelwright, S. J., Murphy, D. G. M., Suckling, J., Bullmore, E. T., Baron-Cohen, S., Bailey, A. J., Bolton, P. F., Carrington, S., Daly, E. M., Deoni, S. C., Happé, F., Henty, J., Jezzard, P., Johnston, P., Jones, D. K. & 8 othersMadden, A., Mullins, D., Murphy, C. M., Pasco, G., Ruigrok, A. N. V., Spain, D., Stewart, R. & Williams, S. C., 16 Jul 2012, In : *NeuroImage*. 61, 4, p. 1347-1354 8 p.

Research output: Contribution to journal › Article

Frontal and parietal activity after sleep deprivation is dependent on task difficulty and can be predicted by the fMRI response after normal sleep

Lythe, K. E., Williams, S. C. R., Anderson, C., Libri, V. & Mehta, M. A., 15 Jul 2012, In : *Behavioural brain research*. 233, 1, p. 62-70 9 p.

Research output: Contribution to journal › Article

Methylphenidate effects on prefrontal functioning during attentional-capture and response inhibition

Pauls, A. M., O'Daly, O. G., Rubia, K., Riedel, W. J., Williams, S. C. R. & Mehta, M. A., 15 Jul 2012, In : *Biological psychiatry*. 72, 2, p. 142-149 8 p.

Research output: Contribution to journal › Article

Multiple clinical traits predict clinical diagnosis of depersonalization disorder: implications for DSM-V

Lemche, E., Surguladze, S. A., Brammer, M. J., Phillips, M. L., Sierra, M., David, A. S., Williams, S. C. R. & Giampietro, V. P., 1 Jul 2012, In : *Biological psychiatry*. 72, 1, p. e1-e2 2 p.

Research output: Contribution to journal › Letter

A validation of cognitive biomarkers for the early identification of cognitive enhancing agents in schizotypy: a three-center double-blind placebo-controlled study

Koychev, I., McMullen, K., Lees, J., Dadhiwala, R., Grayson, L., Perry, C., Schmechtig, A., Walters, J., Craig, K. J., Dawson, G. R., Dourish, C. T., Ettinger, U., Wilkinson, L., Williams, S., Deakin, J. F. W. & Barkus, E., Jul 2012, In : European Neuropsychopharmacology. 22, 7, p. 469-481 13 p.

Research output: Contribution to journal > Article

It's not what you hear, it's the way you think about it: appraisals as determinants of affect and behaviour in voice hearers

Peters, E., Williams, S., Cooke, M. & Kuipers, E., Jul 2012, In : Psychological Medicine. 42, 7, p. 1507-1514 8 p.

Research output: Contribution to journal > Article

Contrasting effects of haloperidol and lithium on rodent brain structure: a magnetic resonance imaging study with postmortem confirmation

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Research output: Contribution to journal > Article

Patients with fibromyalgia display less functional connectivity in the brain's pain inhibitory network

Jensen, K. B., Loitole, R., Kosek, E., Petzke, F., Carville, S., Fransson, P., Marcus, H., Williams, S. C. R., Choy, E., Mainguy, Y., Vitton, O., Gracely, R. H., Gollub, R., Ingvar, M. & Kong, J., 26 Apr 2012, In : Molecular Pain. 8, 9 p., 32.

Research output: Contribution to journal > Article

Dissociable effects of methylphenidate, atomoxetine and placebo on regional cerebral blood flow in healthy volunteers at rest: A multi-class pattern recognition approach

Marquand, A., O'Daly, O. G., De Simoni, S., Alsop, D. C., Maguire, R. P., Williams, S. C. R., Zelaya, F. O. & Mehta, M. A., 2 Apr 2012, In : NeuroImage. 60, 2, p. 1015-1024 10 p.

Research output: Contribution to journal > Article

Modulating the default mode network using hypnosis

Deeley, Q., Oakley, D. A., Toone, B., Giampietro, V., Brammer, M. J., Williams, S. C. R. & Halligan, P. W., 1 Apr 2012, In : International Journal of Clinical and Experimental Hypnosis. 60, 2, p. 206 - 228 23 p.

Research output: Contribution to journal > Article

Creating probabilistic maps of the face network in the adolescent brain: a multicentre functional MRI study

Tahmasebi, A. M., Artiges, E., Banaschewski, T., Barker, G. J., Bruhl, R., Büchel, C., Conrod, P. J., Flor, H., Garavan, H., Gallinat, J., Heinz, A., Ittermann, B., Loth, E., Mareckova, K., Martinot, J-L., Poline, J-B., Rietschel, M., Smolka, M. N., Ströhle, A., Schumann, G. & 3 othersPaus, T., IMAGEN Consortium & Williams, S., Apr 2012, In : Human Brain Mapping. 33, 4, p. 938-957 20 p.

Research output: Contribution to journal > Article

The response to rapid infusion of fentanyl in the human brain measured using pulsed arterial spin labelling

Zelaya, F. O., Zois, E., Muller-Pollard, C., Lythgoe, D. J., Lee, S., Andrews, C., Smart, T., Conrod, P., Vennart, W., Williams, S. C. R., Mehta, M. A. & Reed, L. J., Apr 2012, In : Magma: Magnetic Resonance Materials in Physics, Biology and Medicine. 25, 2, p. 163 - 175 13 p.

Research output: Contribution to journal > Article

Thinking about eating food activates visual cortex with reduced bilateral cerebellar activation in females with anorexia nervosa: an fMRI study

Brooks, S. J., O'Daly, O., Uher, R., Friederich, H-C., Giampietro, V., Brammer, M., Williams, S. C. R., Schiöth, H. B., Treasure, J. & Campbell, I. C., 27 Mar 2012, In : PLoS One. 7, 3, 11 p., e34000.

Research output: Contribution to journal > Article

Functional neural correlates of psychometric schizotypy: an fMRI study of antisaccades

Aichert, D. S., Williams, S. C. R., Möller, H-J., Kumari, V. & Ettinger, U., Mar 2012, In : Psychophysiology. 49, 3, p. 345-356 12 p.

Research output: Contribution to journal > Article

Myelin water imaging reflects clinical variability in multiple sclerosis

Kolind, S., Matthews, L., Johansen-Berg, H., Leite, M. I., Williams, S. C. R., Deoni, S. & Palace, J., Mar 2012, In : *NeuroImage*. 60, 1, p. 263-270 8 p.

Research output: [Contribution to journal](#) › [Article](#)

Neural processing of social rejection: The role of schizotypal personality traits

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Research output: [Contribution to journal](#) › [Article](#)

Brain anatomy and its relationship to behavior in adults with autism spectrum disorder: A multicenter magnetic resonance imaging study

Ecker, C., Suckling, J., Deoni, S. C., Lombardo, M. V., Bullmore, E. T., Baron-Cohen, S., Catani, M., Jezzard, P., Barnes, A., Bailey, A. J., Williams, S., Murphy, D. G. M. & MRC AIMS consortium, Feb 2012, In : *Archives of General Psychiatry*. 69, 2, p. 195-209 15 p.

Research output: [Contribution to journal](#) › [Article](#)

Fronto-striatal circuitry and inhibitory control in autism: Findings from diffusion tensor imaging tractography

Langen, M., Leemans, A., Johnston, P., Ecker, C., Daly, E., Murphy, C., Dell'Acqua, F., Durston, S., Murphy, D. G. M. & AIMS Consortium, Feb 2012, In : *Cortex*. 48, 2, p. 183 - 193 11 p.

Research output: [Contribution to journal](#) › [Article](#)

The neuro/PsyGRID calibration experiment: Identifying sources of variance and bias in multicenter MRI studies

Suckling, J., Barnes, A., Job, D., Brennan, D., Lymer, K., Dazzan, P., Reis Marques, T., MacKay, C., McKie, S., Williams, S. R., Williams, S. C. R., Deakin, B. & Lawrie, S., Feb 2012, In : *Human Brain Mapping*. 33, 2, p. 373-386 14 p.

Research output: [Contribution to journal](#) › [Article](#)

White matter microstructural abnormalities in the frontal lobe of adults with antisocial personality disorder

Sundram, F., Deeley, Q., Sarkar, S., Daly, E., Latham, R., Craig, M., Raczek, M., Fahy, T., Picchioni, M., UK AIMS Network, Barker, G. J. & Murphy, D. G. M., Feb 2012, In : *Cortex; a journal devoted to the study of the nervous system and behavior*. 48, 2, p. 216 - 229 14 p.

Research output: [Contribution to journal](#) › [Article](#)

A Dose of Ruthlessness: Interpersonal Moral Judgment Is Hardened by the Anti-Anxiety Drug Lorazepam

Perkins, A., Leonard, A. M., Weaver, K., Dalton, J. A., Mehta, M. A., Kumari, V., Williams, S. C. R. & Ettinger, U., 2012, In : *Journal of Experimental Psychology: General*.

Research output: [Contribution to journal](#) › [Article](#)

Differential Effects of Anaesthesia on the pHMRI Response to Acute Ketamine Challenge

Hodkinson, D. J., de Groote, C., McKie, S., Deakin, J. F. W. & Williams, S., 2012, In : *British journal of medicine and medical research*. 2, 3, p. 373-385 13 p.

Research output: [Contribution to journal](#) › [Article](#)

Faulty suppression of irrelevant material in patients with thought disorder linked to attenuated frontotemporal activation

Arcuri, S. M., Broome, M. R., Giampietro, V., Amaro, E., Kircher, T. T. J., Williams, S. C. R., Andrew, C. M., Brammer, M., Morris, R. G. & McGuire, P. K., 2012, In : *Schizophrenia Research and Treatment*. 2012, 176290.

Research output: [Contribution to journal](#) › [Article](#)

State-dependent changes in hippocampal grey matter in depression

Arnone, D., Mckie, S., Elliott, R., Juhasz, G., Thomas, E. J., Downey, D., Williams, S., Deakin, J. F. W. & Anderson, I. M., 2012, In : *Molecular Psychiatry*. N/A, N/A, p. 1-8 8 p., N/A.

Research output: [Contribution to journal](#) › [Article](#)

Erratum to "N-acetyl aspartate concentration in the anterior cingulate cortex in patients with schizophrenia: A study of clinical and neuropsychological correlates and preliminary exploration of cognitive behaviour therapy effects" [Psychiatry Research: Neuroimaging 182(3) (2010) 251-260]

Premkumar, P., Parbhakar, V. A., Fannon, D., Lythgoe, D., Williams, S., Kuipers, E. & Kumari, V., 30 Dec 2011, In : *Psychiatry Research. Neuroimaging*. 194, 3, p. 403-404 2 p.

Research output: Contribution to journal › Article

Altered Integrity of Perisylvian Language Pathways in Schizophrenia: Relationship to Auditory Hallucinations

Catani, M., Craig, M. C., Forkel, S. J., Kanaan, R., Picchioni, M., Toulopoulou, T., Shergill, S., Williams, S., Murphy, D. G. & McGuire, P., 15 Dec 2011, In : *Biological psychiatry*. 70, 12, p. 1143-1150 8 p.

Research output: Contribution to journal › Article

Restraint of appetite and reduced regional brain volumes in anorexia nervosa: a voxel-based morphometric study

Brooks, S. J., Barker, G. J., O'Daly, O. G., Brammer, M., Williams, S. C. R., Benedict, C., Schioth, H. B., Treasure, J. & Campbell, I. C., 17 Nov 2011, In : *BMC Psychiatry*. 11, 11 p., 179.

Research output: Contribution to journal › Article

A comprehensive testing protocol for MRI neuroanatomical segmentation techniques: Evaluation of a novel lateral ventricle segmentation method

Kempton, M. J., Underwood, T. S. A., Brunton, S., Stylios, F., Schmechtig, A., Ettinger, U., Smith, M. S., Lovestone, S., Crum, W. R., Frangou, S., Williams, S. C. R. & Simmons, A., 15 Oct 2011, In : *NeuroImage*. 58, 4, p. 1051-1059 9 p.

Research output: Contribution to journal › Article

Patient classification as an outlier detection problem: An application of the One-Class Support Vector Machine

Mourao-Miranda, J., Hardoon, D. R., Hahn, T., Marquand, A., Williams, S., Shawe-Taylor, J. & Brammer, M., 1 Oct 2011, In : *NeuroImage*. 58, 3, p. 793-804 12 p.

Research output: Contribution to journal › Article

Unique brain areas associated with abstinence control are damaged in multiply detoxified alcoholics

Duka, T., Trick, L., Nikolaou, K., Gray, M. A., Kempton, M. J., Williams, H., Williams, S. C. R., Critchley, H. D. & Stephens, D. N., 15 Sep 2011, In : *Biological psychiatry*. 70, 6, p. 545 - 552 8 p.

Research output: Contribution to journal › Article

Neuroticism influences brain activity during the experience of visceral pain

Coen, S., Kano, M., Farmer, A. D., Kumari, V., Giampietro, V., Brammer, M., Williams, S. C. R. & Aziz, Q., Sep 2011, In : *Gastroenterology*. 141, 3, p. 909-917.e1 9 p.

Research output: Contribution to journal › Article

Scopolamine disrupts hippocampal activity during allocentric spatial memory in humans: an fMRI study using a virtual reality analogue of the Morris Water Maze

Antonova, E., Parslow, D., Brammer, M., Simmons, A., Williams, S., Dawson, G. R. & Morris, R., Sep 2011, In : *Journal of Psychopharmacology*. 25, 9, p. 1256-1265 10 p., N/A.

Research output: Contribution to journal › Literature review

Differential corticospinal tract degeneration in homozygous 'D90A' SOD-1 ALS and sporadic ALS

Blain, C. R. V., Brunton, S., Williams, V. C., Leemans, A., Turner, M. R., Andersen, P. M., Catani, M., Stanton, B. R., Ganesalingham, J., Jones, D. K., Williams, S. C. R., Leigh, P. N. & Simmons, A., Aug 2011, In : *Journal of Neurology, Neurosurgery and Psychiatry*. 82, 8, p. 843-849 7 p., N/A.

Research output: Contribution to journal › Article

Neural changes following cognitive behaviour therapy for psychosis: a longitudinal study

Kumari, V., Fannon, D., Peters, E. R., Ffytche, D. H., Sumich, A. L., Premkumar, P., Anilkumar, A. P., Andrew, C., Phillips, M. L., Williams, S. C. R. & Kuipers, E., Aug 2011, In : *Brain*. 134, 8, p. 2396-2407 12 p., N/A.

Research output: Contribution to journal › Article

Early specialization for voice and emotion processing in the infant brain

Blasi, A., Mercure, E., Lloyd-Fox, S., Thomson, A., Brammer, M., Sauter, D., Deeley, Q., Barker, G. J., Renvall, V., Deoni, S., Gasston, D., Williams, S. C. R., Johnson, M. H., Simmons, A. & Murphy, D. G. M., 26 Jul 2011, In : *Current Biology*. 21, 14, p. 1220-1224 5 p.

Research output: Contribution to journal › Article

Differential neural responses to food images in women with bulimia versus anorexia nervosa

Brooks, S. J., O'Daly, O. G., Uher, R., Friederich, H-C., Giampietro, V., Brammer, M., Williams, S. C. R., Schiöth, H. B., Treasure, J. & Campbell, I. C., 20 Jul 2011, In : *PL o S One* . 6, 7, 8 p., e22259.

Research output: Contribution to journal › Article

Altered prefrontal and hippocampal function during verbal encoding and recognition in people with prodromal symptoms of psychosis

Allen, P., Seal, M. L., Valli, I., Fusar-Poli, P., Perlini, C., Day, F., Wood, S. J., Williams, S. C. & McGuire, P. K., Jul 2011, In : *Schizophrenia Bulletin*. 37, 4, p. 746-756 11 p.

Research output: Contribution to journal › Article

Functional magnetic resonance imaging of a parametric working memory task in schizophrenia: Relationship with performance and effects of antipsychotic treatment

Ettinger, U., Williams, S. C. R., Fannon, D., Premkumar, P., Kuipers, E., Moeller, H-J. & Kumari, V., Jul 2011, In : *Psychopharmacology*. 216, 1, p. 17-27 11 p.

Research output: Contribution to journal › Article

Structural neuroimaging studies in major depressive disorder: Meta-analysis and comparison with bipolar disorder

Kempton, M. J., Salvador, Z., Munafò, M. R., Geddes, J. R., Simmons, A., Frangou, S. & Williams, S. C. R., Jul 2011, In : *JAMA Psychiatry*. 68, 7, p. 675-690 16 p.

Research output: Contribution to journal › Article

Segmentation of the thalamus in MRI based on T1 and T2

Traynor, C. R., Richardson, M. P., Barker, G. J., Crum, W. R. & Williams, S. C. R., 1 Jun 2011, In : *NeuroImage*. 56, 3, p. 939-950 12 p.

Research output: Contribution to journal › Article

Specialization of right temporo-parietal junction for mentalizing and its relation to social impairments in autism

Lombardo, M. V., Chakrabarti, B., Bullmore, E. T., Baron-Cohen, S., MRC AIMS consortium & Ecker, C., 1 Jun 2011, In : *NeuroImage*. 56, 3, p. 1832-1838 7 p.

Research output: Contribution to journal › Article

Pattern classification of working memory networks reveals differential effects of methylphenidate, atomoxetine, and placebo in healthy volunteers

Marquand, A., De Simoni, S., O'Daly, O. G., Williams, S. C. R., Mourão-Miranda, J. & Mehta, M. A., May 2011, In : *Neuropsychopharmacology*. 36, 6, p. 1237-1247 11 p.

Research output: Contribution to journal › Article

Distinct temporal patterns of electrical stimulation influence neural recruitment during PTZ infusion: An fMRI study

Bernanos Soares Mesquita, M., Medeiros, D. D. C., Cota, V. R., Richardson, M. P., Williams, S. & Dutra Moraes, M. F., Mar 2011, In : *Progress in Biophysics and Molecular Biology*. 105, 1-2, p. 109 - 118 10 p.

Research output: Contribution to journal › Literature review

Flight behaviour in humans is intensified by a candidate genetic risk factor for panic disorder: evidence from a translational model of fear and anxiety

Perkins, A., Ettinger, U., Williams, S. C. R., Reuter, M., Hennig, J. & Corr, P. J., Mar 2011, In : *Molecular Psychiatry*. 16, 3, p. 242 - 244 3 p.

Research output: Contribution to journal › Letter

Altered brain function directly related to structural abnormalities in people at ultra high risk of psychosis: longitudinal VBM-fMRI study

Fusar-Poli, P., Broome, M., Woolley, J. B., Johns, L. C., Tabraham, P., Bramon, E., Valmaggia, L., Williams, S. C., Brammer, M. J. & McGuire, P. K., Feb 2011, In : *Journal of Psychiatric Research*. 45, 2, p. 190-198 9 p.

Research output: Contribution to journal › Article

Mapping Infant Brain Myelination with Magnetic Resonance Imaging

Deoni, S. C. L., Mercure, E., Blasi, A., Gasston, D., Thomson, A., Johnson, M., Williams, S. C. R. & Murphy, D. G. M., 12 Jan 2011, In : *Journal of Neuroscience*. 31, 2, p. 784 - 791 8 p.

Research output: Contribution to journal › Article

Atlasing location, asymmetry and inter-subject variability of white matter tracts in the human brain with MR diffusion tractography

Thiebaut De Schotten, M., Ffytche, D. H., Bizzi, A., Dell'Acqua, F., Allin, M., Walshe, M., Murray, R., Williams, S., Murphy, D. G. M. & Catani, M., 1 Jan 2011, In : *NeuroImage*. 54, 1, p. 49-59 11 p., N/A.

Research output: Contribution to journal › Article

Dehydration Affects Brain Structure and Function in Healthy Adolescents

Kempton, M. J., Ettinger, U., Foster, R., Williams, S. C. R., Calvert, G. A., Hampshire, A., Zelaya, F. O., Gorman, R. L., McMorris, T., Owen, A. M. & Smith, M. S., Jan 2011, In : *Human Brain Mapping*. 32, 1, p. 71 - 79 9 p.

Research output: Contribution to journal › Article

Prefrontal Function at Presentation Directly Related to Clinical Outcome in People at Ultrahigh Risk of Psychosis

Fusar-Poli, P., Broome, M. R., Matthiasson, P., Woolley, J. B., Mechelli, A., Johns, L. C., Tabraham, P., Bramon, E., Valmaggia, L., Williams, S. & McGuire, P., Jan 2011, In : *Schizophrenia Bulletin*. 37, 1, p. 189-198 10 p.

Research output: Contribution to journal › Article

Assessment of the impact of the scanner-related factors on brain morphometry analysis with Brainvisa

Shokouhi, M., Barnes, A., Suckling, J., Moorhead, T. W., Brennan, D., Job, D., Lymer, K., Dazzan, P., Reis Marques, T., Mackay, C., McKie, S., Williams, S. C., Lawrie, S. M., Deakin, B., Williams, S. R. & Condon, B., 2011, In : *BMC medical imaging*. 11, 23, p. 23

Research output: Contribution to journal › Article

Beyond Patient Reported Pain: Perfusion magnetic resonance imaging demonstrates reproducible cerebral representation of ongoing post-surgical pain

Howard, M. A., Krause, K., Khawaja, N., Massat, N., Zelaya, F., Schumann, G., Huggins, J. P., Vennart, W., Williams, S. C. R. & Renton, T. F., 2011, In : *PLoS One*. 6, 2, p. e17096 PMID: 21373203.

Research output: Contribution to journal › Article

Lateralisation of the arcuate fasciculus predicts aphasia recovery at 6 months

Forkel, S. J., Dell'Acqua, F., Kalra, L., Williams, S. C. & Catani, M., 2011, In : *Procedia - Social and Behavioral Sciences*. 23, p. 164-166 3 p.

Research output: Contribution to journal › Article

The Role of Neuroimaging Biomarkers in Personalised Medicine for Neurodegenerative and Psychiatric Disorders

Migo, E., Williams, S., Crum, W., Kempton, M. & Ettinger, U., 2011, *Integrative Neuroscience and Personalized Medicine*. Oxford University Press, p. 141-163 23 p.

Research output: Chapter in Book/Report/Conference proceeding › Chapter

A Shift to Randomness of Brain Oscillations in People with Autism

Lai, M-C., Lombardo, M. V., Chakrabarti, B., Sadek, S. A., Pasco, G., Wheelwright, S. J., Bullmore, E. T., Baron-Cohen, S., Suckling, J. & MRC AIMS consortium, 15 Dec 2010, In : *Biological psychiatry*. 68, 12, p. 1092-1099 8 p.

Research output: Contribution to journal › Article

Knowing you care: Effects of perceived empathy and attachment style on pain perception

Sambo, C. F., Howard, M., Kopelman, M., Williams, S. & Fotopoulou, A., Dec 2010, In : *Pain*. 151, 3, p. 687 - 693 7 p.

Research output: Contribution to journal › Article

Neural correlates of visuospatial working memory in the 'at-risk mental state'

Broome, M. R., Fusar-Poli, P., Matthiasson, P., Woolley, J. B., Valmaggia, L., Johns, L. C., Tabraham, P., Bramon, E., Williams, S. C. R., Brammer, M. J., Chitnis, X., Zelaya, F. & McGuire, P. K., Dec 2010, In : *Psychological Medicine*. 40, 12, p. 1987-1999 13 p.

Research output: Contribution to journal › Article

The IMAGEN study: reinforcement-related behaviour in normal brain function and psychopathology

Schumann, G., Loth, E., Banaschewski, T., Barbot, A., Barker, G., Buechel, C., Conrod, P. J., Dalley, J. W., Flor, H., Gallinat, J., Garavan, H., Heinz, A., Itterman, B., Lathrop, M., Mallik, C., Mann, K., Martinot, J-L., Paus, T., Poline, J-B., Robbins, T. W. & 9 others Rietschel, M., Reed, L., Smolka, M., Spanagel, R., Speiser, C., Stephens, D. N., Stroehle, A., Struve, M. & IMAGEN Consortium, Dec 2010, In : *Molecular Psychiatry*. 15, 12, p. 1128 - 1139 12 p.

Research output: Contribution to journal > Article

Anxiety and Depressive Symptoms in Fibromyalgia Are Related to Poor Perception of Health but Not to Pain Sensitivity or Cerebral Processing of Pain

Jensen, K. B., Petzke, F., Carville, S., Fransson, P., Marcus, H., Williams, S. C. R., Choy, E., Mainguy, Y., Gracely, R., Ingvar, M. & Kosek, E., Nov 2010, In : *Arthritis & Rheumatism*. 62, 11, p. 3488 - 3495 8 p.

Research output: Contribution to journal > Article

Hyporesponsive Reward Anticipation in the Basal Ganglia following Severe Institutional Deprivation Early in Life

Mehta, M. A., Gore-Langton, E., Golembo, N., Colvert, E., Williams, S. C. R. & Sonuga-Barke, E., Oct 2010, In : *JOURNAL OF COGNITIVE NEUROSCIENCE*. 22, 10, p. 2316 - 2325 10 p.

Research output: Contribution to journal > Article

Neural correlates of movement generation in the 'at-risk mental state'

Broome, M. R., Matthiasson, P., Fusar-Poli, P., Woolley, J. B., Johns, L. C., Tabraham, P., Bramon, E., Valmaggia, L., Williams, S. C. R., Brammer, M. J., Chitnis, X. & McGuire, P. K., Oct 2010, In : *Acta Psychiatrica Scandinavica*. 122, 4, p. 295 - 301 7 p.

Research output: Contribution to journal > Article

Spatial working memory in individuals at ultra high clinical risk for psychosis: longitudinal fMRI study

Fusar-Poli, P., Broome, M. R., Matthiasson, P., Woolley, J. B., Johns, L. C., Tabraham, P., Bramon, E., Valmaggia, L., Williams, S. C. & McGuire, P., Oct 2010, In : *Schizophrenia Research*. 123, 1, p. 45-52 8 p.

Research output: Contribution to journal > Article

Subregional hippocampal deformations in major depressive disorder

Cole, J., Toga, A. W., Hojatkashani, C., Thompson, P., Costafreda, S. G., Cleare, A. J., Williams, S. C. R., Bullmore, E. T., Scott, J. L., Mitterschiffthaler, M. T., Walsh, N. D., Donaldson, C., Mirza, M., Marquand, A., Nosarti, C., McGuffin, P. & Fu, C. H. Y., Oct 2010, In : *Journal of Affective Disorders*. 126, 1-2, p. 272 - 277 6 p.

Research output: Contribution to journal > Article

Describing the Brain in Autism in Five Dimensions-Magnetic Resonance Imaging-Assisted Diagnosis of Autism Spectrum Disorder Using a Multiparameter Classification Approach

Ecker, C., Marquand, A., Mourao-Miranda, J., Johnston, P., Daly, E. M., Brammer, M. J., Maltezos, S., Murphy, C., Robertson, D., Williams, S. & Murphy, D. G. M., 11 Aug 2010, In : *Journal of Neuroscience*. 30, 32, p. 10612 - 10623 12 p., N/A.

Research output: Contribution to journal > Article

Association of Neuregulin 1 rs3924999 genotype with antisaccades and smooth pursuit eye movements

Schmechtig, A., Vassos, E., Kumari, V., Hutton, S. B., Collier, D. A., Morris, R. G., Williams, S. C. R. & Ettinger, U., Aug 2010, In : *Genes, Brain and Behavior*. 9, 6, p. 621 - 627 7 p.

Research output: Contribution to journal > Article

Neural correlates of body dissatisfaction in anorexia nervosa

Friederich, H-C., Brooks, S., Uher, R., Campbell, I. C., Giampietro, V., Brammer, M., Williams, S. C. R., Herzog, W. & Treasure, J., Aug 2010, In : *Neuropsychologia*. 48, 10, p. 2878 - 2885 8 p.

Research output: Contribution to journal > Article

Power Calculations for Multicenter Imaging Studies Controlled by the False Discovery Rate

Suckling, J., Barnes, A., Job, D., Brenan, D., Lymer, K., Dazzan, P., Marques, T. R., MacKay, C., McKie, S., Williams, S. R., Williams, S. C. R., Lawrie, S. & Deakin, B., Aug 2010, In : *Human Brain Mapping*. 31, 8, p. 1183 - 1195 13 p.

Research output: Contribution to journal > Article

Functional MRI of Verbal Self-monitoring in Schizophrenia: Performance and Illness-Specific Effects

Kumari, V., Fannon, D., Ffytche, D. H., Raveendran, V., Antonova, E., Premkumar, P., Cooke, M. A., Anilkumar, A. P. P., Williams, S. C. R., Andrew, C., Johns, L. C., Fu, C. H. Y., McGuire, P. K. & Kuipers, E., Jul 2010, In : Schizophrenia Bulletin. 36, 4, p. 740 - 755 16 p., N/A.

Research output: Contribution to journal > Article

Progressive lateral ventricular enlargement in schizophrenia: A meta-analysis of longitudinal MRI studies

Kempton, M. J., Stahl, D., Williams, S. C. R. & DeLisi, L. E., Jul 2010, In : Schizophrenia Research. 120, 1-3, p. 54 - 62 9 p.

Research output: Contribution to journal > Article

Shared neural circuits for mentalizing about the self and others

Lombardo, M. V., Chakrabarti, B., Bullmore, E. T., Wheelwright, S. J., Sadek, S. A., Suckling, J., Baron-Cohen, S., MRC AIMS consortium & Murphy, D., Jul 2010, In : JOURNAL OF COGNITIVE NEUROSCIENCE. 22, 7, p. 1623-1635 13 p.

Research output: Contribution to journal > Article

N-acetyl aspartate concentration in the anterior cingulate cortex in patients with schizophrenia: A study of clinical and neuropsychological correlates and preliminary exploration of cognitive behaviour therapy effects

Premkumar, P., Parbhakar, V. A., Fannon, D., Lythgoe, D., Williams, S., Kuipers, E. & Kumari, V., 30 Jun 2010, In : Psychiatry Research. Neuroimaging. 182, 3, p. 251 - 260 10 p.

Research output: Contribution to journal > Article

Performance Evaluation of an MRI-Compatible Pre-Clinical PET System Using Long Optical Fibers

Mackewn, J. E., Halsted, P., Charles-Edwards, G., Page, R., Totman, J. J., Sunassee, K., Strul, D., Hallett, W. A., Jauregui-Osoro, M., Liepins, P., Williams, S. C. R., Schaeffter, T., Keevil, S. F. & Marsden, P. K., Jun 2010, In : IEEE Transactions on Nuclear Science. 57, 3, p. 1052 - 1062 11 p., 5485148.

Research output: Contribution to journal > Article

Defining the Role of Cholecystokinin in the Lipid-Induced Human Brain Activation Matrix

Lassman, D. J., Mckie, S., Gregory, L. J., Lal, S., D'Amato, M., Steele, I., Varro, A., Dockray, G. J., Williams, S. C. R. & Thompson, D. G., Apr 2010, In : Gastroenterology. 138, 4, p. 1514 - 1524 11 p.

Research output: Contribution to journal > Article

Atypical neural self-representation in autism

Lombardo, M. V., Chakrabarti, B., Bullmore, E. T., Sadek, S. A., Pasco, G., Wheelwright, S. J., Suckling, J., Baron-Cohen, S. & MRC AIMS consortium, Feb 2010, In : Brain. 133, 2, p. 611-624 14 p.

Research output: Contribution to journal > Article

Cingulate activity and fronto-temporal connectivity in people with prodromal signs of psychosis

Allen, P., Stephan, K. E., Mechelli, A., Day, F., Ward, N., Dalton, J., Williams, S. C. & McGuire, P., 1 Jan 2010, In : NeuroImage. 49, 1, p. 947 - 955 9 p.

Research output: Contribution to journal > Article

Beyond dopamine: functional MRI predictors of responsiveness to cognitive behaviour therapy for psychosis

Kumari, V., Antonova, E., Fannon, D., Peters, E. R., Ffytche, D. H., Premkumar, P., Raveendran, V., Andrew, C., Johns, L. C., McGuire, P. A., Williams, S. C. R. & Kuipers, E., 2010, In : Frontiers in Behavioral Neuroscience. 4, N/A, p. N/A 15 p., 4.

Research output: Contribution to journal > Article

Superior Temporal Lobe Dysfunction and Frontotemporal Dysconnectivity in Subjects at Risk of Psychosis and in First-Episode Psychosis

Crossley, N. A., Mechelli, A., Fusar-Poli, P., Broome, M. R., Matthiasson, P., Johns, L. C., Bramon, E., Valmaggia, L., Williams, S. C. R. & McGuire, P. K., Dec 2009, In : Human Brain Mapping. 30, 12, p. 4129 - 4137 9 p.

Research output: Contribution to journal > Article

An investigation of cognitive 'branching' processes in major depression

Walsh, N. D., Seal, M. L., Williams, S. C. R. & Mehta, M. A., 10 Nov 2009, In : BMC Psychiatry. 9, p. 69- 69.

Research output: Contribution to journal › Article

Effects of Lorazepam and Citalopram on Human Defensive Reactions: Ethopharmacological Differentiation of Fear and Anxiety

Perkins, A., Ettinger, U., Davis, R., Foster, R., Williams, S. C. R. & Corr, P. J., 7 Oct 2009, In : *Journal of Neuroscience*. 29, 40, p. 12617 - 12624 8 p.

Research output: Contribution to journal › Article

Dorsolateral Prefrontal Cortex Activity Predicts Responsiveness to Cognitive-Behavioral Therapy in Schizophrenia

Kumari, V., Peters, E. R., Fannon, D., Antonova, E., Premkumar, P., Anilkumar, A. P., Williams, S. C. R. & Kuipers, E., 15 Sep 2009, In : *Biological psychiatry*. 66, 6, p. 594 - 602 9 p.

Research output: Contribution to journal › Article

Functional integration between the posterior hippocampus and prefrontal cortex is impaired in both first episode schizophrenia and the at risk mental state

Benetti, S., Mechelli, A., Picchioni, M., Broome, M., Williams, S. & McGuire, P., Sep 2009, In : *Brain*. 132, 9, p. 2426 - 2436 11 p.

Research output: Contribution to journal › Article

A chronic 1 year assessment of MRI contrast agent-labelled neural stem cell transplants in stroke

Modo, M., Beech, J. S., Meade, T. J., Williams, S. C. R. & Price, J., Aug 2009, In : *NeuroImage*. 47, S2, p. T133-T142 10 p., N/A.

Research output: Contribution to journal › Article

Amygdala, hippocampal and corpus callosum size following severe early institutional deprivation: The English and Romanian Adoptees Study Pilot

Mehta, M. A., Golembo, N. I., Nosarti, C., Colvert, E., Mota, A., Williams, S. C. R., Rutter, M. & Sonuga-Barke, E. J. S., Aug 2009, In : *Journal of Child Psychology and Psychiatry*. 50, 8, p. 943 - 951 9 p.

Research output: Contribution to journal › Article

Evidence of dysfunctional pain inhibition in Fibromyalgia reflected in rACC during provoked pain

Jensen, K. B., Kosek, E., Petzke, F., Carville, S., Fransson, P., Marcus, H., Williams, S. C. R., Choy, E., Giesecke, T., Mainguy, Y., Gracely, R. & Ingvar, M., Jul 2009, In : *Pain*. 144, 1-2, p. 95 - 100 6 p.

Research output: Contribution to journal › Article

Negative Mood Affects Brain Processing of Visceral Sensation

Coen, S., Yaguez, L., Aziz, Q., Mitterschiffthaler, M. T., Brammer, M., Williams, S. C. R. & Gregory, L. J., Jul 2009, In : *Gastroenterology*. 137, 1, p. 253 - 261.e2 9 p.

Research output: Contribution to journal › Article

Neural and behavioural responses to threat in men with a history of serious violence and schizophrenia or antisocial personality disorder

Kumari, V., Das, M., Taylor, P. J., Barkataki, I., Andrew, C., Sumich, A., Williams, S. C. R. & Ffytche, D. H., May 2009, In : *Schizophrenia Research*. 110, 1-3, p. 47 - 58 12 p.

Research output: Contribution to journal › Article

Measuring fMRI reliability with the intra-class correlation coefficient

Caceres, A., Hall, D. L., Zelaya, F. O., Williams, S. C. R. & Mehta, M. A., 15 Apr 2009, In : *NeuroImage*. 45, 3, p. 758 - 768 11 p.

Research output: Contribution to journal › Article

Effects of acute nicotine on brain function in healthy smokers and non-smokers: Estimation of inter-individual response heterogeneity

Ettinger, U., Williams, S. C. R., Patel, D., Michel, T. M., Nwaigwe, A., Caceres, A., Mehta, M. A., Anilkumar, A. P. & Kumari, V., 1 Apr 2009, In : *NeuroImage*. 45, 2, p. 549 - 561 13 p.

Research output: Contribution to journal › Article

Imaging the brain during sniffing: A pilot fMRI study

Koritnik, B., Azam, S., Andrew, C. M., Leigh, P. N. & Williams, S. C. R., Apr 2009, In : PULMONARY PHARMACOLOGY AND THERAPEUTICS. 22, 2, p. 97 - 101 5 p.

Research output: Contribution to journal > Article

The effects of gender and COMT Val158Met polymorphism on fearful facial affect recognition: a fMRI study

Kempton, M. J., Haldane, M., Jogia, J., Christodoulou, T., Powell, J., Collier, D., Williams, S. C. R., Frangou, S. & Jogia, J., Apr 2009, In : International Journal of Neuropsychopharmacology . 12, 3, p. 371 - 381 11 p.

Research output: Contribution to journal > Article

The Neural Basis of Response Inhibition and Attention Allocation as Mediated by Gestational Age

Lawrence, E. J., Rubia, K., Murray, R. M., McGuire, P. K., Walshe, M., Allin, M., Giampietro, V., Rifkin, L., Williams, S. C. R. & Nosarti, C., Mar 2009, In : Human Brain Mapping. 30, 3, p. 1038 - 1050 13 p.

Research output: Contribution to journal > Article

Correlation-based multivariate analysis of genetic influence on brain volume

Hardoon, D. R., Ettinger, U., Mourao-Miranda, J., Antonova, E., Collier, D., Kumari, V., Williams, S. C. R. & Brammer, M., 6 Feb 2009, In : Neuroscience Letters. 450, 3, p. 281 - 286 6 p.

Research output: Contribution to journal > Article

Diffusion Tensor Imaging in Sporadic and Familial (D90A SOD1) Forms of Amyotrophic Lateral Sclerosis

Stanton, B. R., Shinhmar, D., Turner, M. R., Williams, V. C., Williams, S. C. R., Blain, C. R. V., Giampietro, V., Catani, M., Leigh, P. N., Andersen, P. M. & Simmons, A., Jan 2009, In : Archives of neurology. 66, 1, p. 109 - 115 7 p.

Research output: Contribution to journal > Article

Effects of Acute Dehydration on Brain Morphology in Healthy Humans

Kempton, M. J., Ettinger, U., Schmechtig, A., Winter, E. M., Smith, L., McMorris, T., Wilkinson, I. D., Williams, S. C. R. & Smith, M. S., Jan 2009, In : Human Brain Mapping. 30, 1, p. 291 - 298 8 p.

Research output: Contribution to journal > Article

Neural correlates of executive function and working memory in the 'at-risk mental state'

Broome, M. R., Matthiasson, P., Fusar-Poli, P., Woolley, J. B., Johns, L. C., Tabraham, P., Bramon, E., Valmaggia, L., Williams, S. C. R., Brammer, M. J., Chitnis, X. & McGuire, P. K., Jan 2009, In : British Journal of Psychiatry. 194, 1, p. 25 - 33 9 p., N/A.

Research output: Contribution to journal > Article

Neither in vivo MRI nor behavioural assessment indicate therapeutic efficacy for a novel 5HT(1A) agonist in rat models of ischaemic stroke

Ashioti, M., Beech, J. S., Lowe, A. S., Bernanos, M., McCreary, A., Modo, M. & Williams, S., 2009, In : BMC NEUROSCIENCE. 10, 82.

Research output: Contribution to journal > Article

Performance Evaluation and MR Compatibility Assessment of an Optical Fibre Based Pre-Clinical MR-Compatible PET Scanner

Mackewn, J. E., Strul, D., Charles-Edwards, G., Totman, J. J., Hallett, W. A., Halsted, P., Page, R. A., Cash, D., Schaeffter, T., Williams, S. C. R., Keevil, S. F. & Marsden, P. K., 2009, *Unknown*. NEW YORK: IEEE, p. 3935 - 3939 5 p. (2008 IEEE NUCLEAR SCIENCE SYMPOSIUM AND MEDICAL IMAGING CONFERENCE (2008 NSS/MIC), VOLS 1-9).

Research output: Chapter in Book/Report/Conference proceeding > Conference paper

Visuospatial working memory in children and adolescents with 22q11.2 deletion syndrome; an fMRI study

Azuma, R., Daly, E. M., Campbell, L. E., Stevens, A. F., Deeley, Q., Giampietro, V., Brammer, M. J., Glaser, B., Ambery, F. Z., Morris, R. G., Williams, S. C. R., Owen, M. J., Murphy, D. G. M. & Murphy, K. C., 2009, In : Journal Of Neurodevelopmental Disorders. 1, 1, p. 46 - 60 15 p.

Research output: Contribution to journal > Article

Catechol-O-Methyltransferase (COMT) Val(158)Met Genotype is Associated with BOLD Response as a Function of Task Characteristic

Ettinger, U., Kumari, V., Collier, D. A., Powell, J., Luzi, S., Michel, T. M., Zedoni, O. & Williams, S. C. R., Dec 2008, In : *Neuropsychopharmacology*. 33, 13, p. 3046 - 3057 12 p.

Research output: Contribution to journal › Article

Effects of Attention on Visceral Stimulus Intensity Encoding in the Male Human Brain

Coen, S., AZIZ, QASIM., Yaguez-Hervas, L., Brammer, M., Williams, S. & Gregory, L. J., Dec 2008, In : *Gastroenterology*. 135, 6, p. 2065 - 2074.e1 10 p.

Research output: Contribution to journal › Article

A pharmacological MRI assessment of dizocilpine (MK-801) in the 3-nitropropionic acid-lesioned rat

Roberts, T. J., Williams, S. C. R. & Modo, M., 17 Oct 2008, In : *Neuroscience Letters*. 444, 1, p. 42 - 47 6 p.

Research output: Contribution to journal › Article

Components of variance in a multicentre functional MRI study and implications for calculation of statistical power

Suckling, J., Ohlssen, D., Andrew, C., Johnson, G., Williams, S. C. R., Graves, M., Chen, C-H., Spiegelhalter, D. & Bullmore, E., Oct 2008, In : *Human Brain Mapping*. 29, 10, p. 1111 - 1122 12 p.

Research output: Contribution to journal › Article

Neural responses to sad facial expressions in major depression following cognitive behavioral therapy

Fu, C. H. Y., Williams, S. C. R., Cleare, A. J., Scott, J., Mitterschiffthaler, M. T., Walsh, N. D., Donaldson, C., Suckling, J., Andrew, C., Steiner, H. & Murray, R. M., 15 Sep 2008, In : *Biological psychiatry*. 64, 6, p. 505 - 512 8 p., N/A.

Research output: Contribution to journal › Article

Cerebral and autonomic responses to emotional facial expressions in depersonalisation disorder

Lemche, E., Anilkumar, A., Giampietro, V., Brammer, M. J., Surguladze, S. A., Lawrence, N. S., Gasston, D., Chitnis, X., Williams, S. C. R., Sierra, M., Joraschky, P. & Phillips, M. L., Sep 2008, In : *British Journal of Psychiatry*. 193, 3, p. 222 - 228 7 p.

Research output: Contribution to journal › Article

Fronto-temporal interactions during overt verbal initiation and suppression

Allen, P., Mechelli, A., Stephan, K. E., Day, F., Dalton, J., Williams, S. & McGuire, P. K., Sep 2008, In : *JOURNAL OF COGNITIVE NEUROSCIENCE*. 20, 9, p. 1656-1669 14 p.

Research output: Contribution to journal › Article

Meta-analysis, database, and meta-regression of 98 structural imaging studies in bipolar disorder

Kempton, M. J., Geddes, J. R., Ettinger, U., Williams, S. C. R. & Grasby, P. M., Sep 2008, In : *Archives of General Psychiatry*. 65, 9, p. 1017-32 16 p.

Research output: Contribution to journal › Article

Increased cerebral perfusion in adult attention deficit hyperactivity disorder is normalised by stimulant treatment: A non-invasive MRI pilot study

O'Gorman, R. L., Mehta, M. A., Asherson, P., Zelaya, F. O., Brookes, K. J., Toone, B. K., Alsop, D. C. & Williams, S. C. R., 1 Aug 2008, In : *NeuroImage*. 42, 1, p. 36 - 41 6 p.

Research output: Contribution to journal › Article

Neurological basis of poor insight in psychosis: A voxel-based MRI study

Cooke, M. A., Fannon, D., Kulpers, E., Peters, E., Williams, S. C. & Kumari, V., Aug 2008, In : *Schizophrenia Research*. 103, 1-3, p. 40 - 51 12 p.

Research output: Contribution to journal › Article

Functional coupling of the amygdala in depressed patients treated with antidepressant medication

Chen, C. H., Suckling, J., Ooi, C., Fu, C. H., Williams, S. C. R., Walsh, N. D., Mitterschiffthaler, M. T., Pich, E. M. & Bullmore, E., Jul 2008, In : *Neuropsychopharmacology*. 33, 8, p. 1909 - 1918 10 p.

Research output: Contribution to journal › Article

AMPA receptor potentiation can prevent ethanol-induced intoxication

Jones, N., Messenger, M. J., O'Neill, M. J., Oldershaw, A., Gilmour, G., Simmons, R. M. A., Iyengar, S., Libri, V., Tricklebank, M. & Williams, S. C. R., Jun 2008, In : *Neuropsychopharmacology*. 33, 7, p. 1713 - 1723 11 p.

Research output: Contribution to journal > Article

Combining path analysis with time-resolved functional magnetic resonance imaging: The neurocognitive network underlying mental rotation

Ecker, C., Brammer, M. J. & Williams, S. C., Jun 2008, In : *JOURNAL OF COGNITIVE NEUROSCIENCE*. 20, 6, p. 1003-1020 18 p.

Research output: Contribution to journal > Article

Modulation of activity in swallowing motor cortex following esophageal acidification: A functional magnetic resonance imaging study

Paine, P. A., Hamdy, S., Chitnis, X., Gregory, L. J., Giampietro, V., Brammer, M., Williams, S. & Aziz, Q., Jun 2008, In : *Dysphagia*. 23, 2, p. 146-154 9 p.

Research output: Contribution to journal > Article

Sensory inputs from whisking movements modify cortical whisker maps visualized with functional magnetic resonance imaging

Alonso, B. D. C., Lowe, A. S., Dear, J. P., Lee, K. C., Williams, S. C. R. & Finnerty, G. T., Jun 2008, In : *Cerebral Cortex*. 18, 6, p. 1314 - 1325 12 p.

Research output: Contribution to journal > Article

Decomposing the neural correlates of antisaccade eye movements using event-related fMRI

Ettinger, U., fftyche, D. H., Kumari, V., Kathmann, N., Reuter, B., Zelaya, F. & Williams, S. C. R., May 2008, In : *Cerebral Cortex*. 18, 5, p. 1148 - 1159 12 p.

Research output: Contribution to journal > Article

Pattern Classification of Sad Facial Processing: Toward the Development of Neurobiological Markers in Depression

Fu, C. H. Y., Mourao-Miranda, J., Costafrecla, S. G., Khanna, A., Marquand, A., Williams, S. & Brammer, M. J., 1 Apr 2008, In : *Biological psychiatry*. 63, 7, p. 656-662 7 p., N/A.

Research output: Contribution to journal > Article

Standardized structural magnetic resonance imaging in multicentre studies using quantitative T-1 and T-2 imaging at 1.5 T

Deoni, S. C. L., Williams, S. C. R., Jezzard, P., Suckling, J., Murphy, D. G. M. & Jones, D. K., 1 Apr 2008, In : *NeuroImage*. 40, 2, p. 662 - 671 10 p.

Research output: Contribution to journal > Article

Neural basis of the emotional Stroop interference effect in major depression

Mitterschiffthaler, M. T., Williams, S. C. R., Walsh, N. D., Cleare, A. J., Donaldson, C., Scott, J. & Fu, C. H. Y., Feb 2008, In : *Psychological Medicine*. 38, 2, p. 247 - 256 10 p.

Research output: Contribution to journal > Article

Grey and white matter distribution in very preterm adolescents mediates neurodevelopmental outcome

Nosarti, C., Giouroukou, E., Healy, E., Rifkin, L., Walshe, M., Reichenberg, A., Chitnis, X., Williams, S. C. R. & Murray, R. M., Jan 2008, In : *Brain*. 131, 1, p. 205 - 217 13 p.

Research output: Contribution to journal > Article

A longitudinal functional magnetic resonance imaging study of verbal working memory in depression after antidepressant therapy

Walsh, N. D., Williams, S. C. R., Brammer, M. J., Bullmore, E. T., Kim, J., Suckling, J., Mitterschiffthaler, M. T., Cleare, A. J., Pich, E. M., Mehta, M. A. & Fu, C. H. Y., 1 Dec 2007, In : *Biological psychiatry*. 62, 11, p. 1236 - 1243 8 p.

Research output: Contribution to journal > Article

PYY modulation of cortical and hypothalamic brain areas predicts feeding behaviour in humans

Batterham, R. L., Ffytche, D. H., Rosenthal, J. M., Zelaya, F. O., Barker, G. J., Withers, D. J. & Williams, S. C. R., 1 Nov 2007, In : NATURE. 450, 7166, p. 106 - 109 4 p.

Research output: Contribution to journal > Article

A functional MRI study of happy and sad affective states induced by classical music

Mitterschiffthaler, M. T., Fu, C. H. Y., Dalton, J. A., Andrew, C. M. & Williams, S. C. R., Nov 2007, In : Human Brain Mapping. 28, 11, p. 1150 - 1162 13 p.

Research output: Contribution to journal > Article

Medial temporal lobe activity at recognition increases with the duration of mnemonic delay during an object working memory task

Picchioni, M., Matthiasson, P., Broome, M., Giampietro, V., Brammer, M., Mathes, B., Fletcher, P., Williams, S. & McGuire, P. K., Nov 2007, In : Human Brain Mapping. 28, 11, p. 1235 - 1250 16 p.

Research output: Contribution to journal > Article

Misattribution of speech and impaired connectivity in patients with auditory verbal hallucinations

Mechelli, A., Allen, P., Amaro, E., Fu, C. H. Y., Williams, S. C. R., Brammer, M. J., Johns, L. C. & McGuire, P. K., Nov 2007, In : Human Brain Mapping. 28, 11, p. 1213 - 1222 10 p.

Research output: Contribution to journal > Article

Cortical activation during motor imagery is reduced in Amyotrophic Lateral Sclerosis

Stanton, B. R., Williams, V. C., Leigh, P. N., Williams, S. C. R., Blain, C., Giampietro, V. & Simmons, A., 3 Oct 2007, In : Brain Research. 1172, p. 145 - 151 7 p.

Research output: Contribution to journal > Article

Brain imaging correlates of depressive symptom severity and predictors of symptom improvement after antidepressant treatment

Chen, C. H., Ridler, K., Suckling, J., Williams, S., Fu, C. H. Y., Merlo-Pich, E. & Bullmore, E., 1 Sep 2007, In : Biological psychiatry. 62, 5, p. 407 - 414 8 p.

Research output: Contribution to journal > Article

Cellular multiparametric MRI of neural stem cell therapy in a rat glioma model

Brekke, C., Williams, S. C., Price, J., Thorsen, F. & Modo, M., 1 Sep 2007, In : NeuroImage. 37, 3, p. 769 - 782 14 p.

Research output: Contribution to journal > Article

Altered cortical activation during a motor task in ALS - Evidence for involvement of central pathways

Stanton, B. R., Williams, V. C., Leigh, P. N., Williams, S. C. R., Blain, C. R. V., Jarosz, J. M. & Simmons, A., Sep 2007, In : Journal of Neurology. 254, 9, p. 1260 - 1267 8 p.

Research output: Contribution to journal > Article

Detecting functional nodes in large-scale cortical networks with functional magnetic resonance imaging: a principal component analysis of the human visual system

Ecker, C., Reynaud, E., Williams, S. & Brammer, M. J., Sep 2007, In : Human Brain Mapping. 28, 9, p. 817 - 834 18 p.

Research output: Contribution to journal > Article

I'm not as slim as that girl: Neural bases of body shape self-comparison to media images

Friederich, H. C., Uher, R., Brooks, S., Giampietro, V., Brammer, M., Williams, S. C. R., Herzog, W., Treasure, J. & Campbell, I. C., 15 Aug 2007, In : NeuroImage. 37, 2, p. 674 - 681 8 p.

Research output: Contribution to journal > Article

A fMRI investigation of startle gating deficits in schizophrenia patients treated with typical or atypical antipsychotics

Kumari, V., Antonova, E., Geyer, M. A., Ffytche, D., Williams, S. C. R. & Sharma, T., Aug 2007, In : International Journal of Neuropsychopharmacology . 10, 4, p. 463 - 477 15 p.

Research output: Contribution to journal > Article

Caffeine restores regional brain activation in acute hypoglycaemia in healthy volunteers

Rosenthal, M. J., Smith, D., Yaguez, L., Giampietro, V., Kerr, D., Bullmore, E., Brammer, M., Williams, S. C. R. & Amiel, S. A., Jul 2007, In : *Diabetic Medicine*. 24, 7, p. 720 - 727 8 p.

Research output: Contribution to journal > Article

Reproducibility of human brain activity evoked by esophageal stimulation using functional magnetic resonance imaging

Coen, S., Gregory, L. J., Yaguez, L., Amaro, E., Brammer, M., Williams, S. C. R. & Aziz, Q., Jul 2007, In : *AMERICAN JOURNAL OF PHYSIOLOGY-GASTROINTESTINAL AND LIVER PHYSIOLOGY*. 293, 1, p. G188 - G197

Research output: Contribution to journal > Article

The nature of abnormal language processing in euthymic bipolar I disorder: evidence for a relationship between task demand and prefrontal function

Curtis, V. A., Thompson, J. M., Seal, M. L., Monks, P. J., Lloyd, A. J., Harrison, L., Brammer, M. J., Williams, S. C. R., Murray, R. M., Young, A. & Ferrier, I. N., Jun 2007, In : *Bipolar Disorders*. 9, 4, p. 358 - 369 12 p.

Research output: Contribution to journal > Article

Multi-modal characterisation of the neocortical clip model of focal cerebral ischaemia by MRI, behaviour and immunohistochemistry

Ashioti, M., Beech, J. S., Lowe, A. S., Hesselink, M. B., Modo, M. & Williams, S., 11 May 2007, In : *Brain Research*. 1145, 1, p. 177-189 13 p.

Research output: Contribution to journal > Article

Effects of acute antipsychotic treatment on brain activation in first episode psychosis: An fMRI study

Fusar-Poli, P., Broome, M. R., Matthiasson, P., Williams, S. C. R., Brammer, M. & McGuire, P. K., May 2007, In : *European Neuropsychopharmacology*. 17, 6-7, p. 492-500 9 p.

Research output: Contribution to journal > Article

Small animal, whole brain fMRI: innocuous and nociceptive forepaw stimulation

Lowe, A. S., Beech, J. S. & Williams, S., 1 Apr 2007, In : *NeuroImage*. 35, 2, p. 719 - 728 10 p.

Research output: Contribution to journal > Article

Neural responses to happy facial expressions in major depression following antidepressant treatment

Fu, C. H., Williams, S. C., Brammer, M. J., Suckling, J., Kim, J., Cleare, A. J., Walsh, N. D., Mitterschiffthaler, M. T., Andrew, C., Pich, E. M. & Bullmore, E. T., Apr 2007, In : *The American Journal of Psychiatry*. 164, 4, p. 599 - 607 9 p.

Research output: Contribution to journal > Article

A diffusion tensor imaging study of fasciculi in schizophrenia

Shergill, S., Kanaan, R. A., Chitnis, X. A., O'Daly, O., Jones, D. K., Frangou, S., Williams, S. C. R., Howard, R. J., Barker, G. J., Murray, R. M. & McGuire, P., Mar 2007, In : *The American Journal of Psychiatry*. 164, 3, p. 467 - 473 7 p.

Research output: Contribution to journal > Article

Limbic and prefrontal responses to facial emotion expressions in depersonalization

Lemche, E., Surguladze, S. A., Giampietro, V., Anilkumar, A., Brammer, M. J., Sierra, M., Chitnis, X., Williams, S. C. R., Gasston, D., Joraschky, P., David, A. S. & Phillips, M. L., Mar 2007, In : *Neuroreport*. 18, 5, p. 473 - 477 5 p.

Research output: Contribution to journal > Article

IGF-binding protein-2 protects against the development of obesity and insulin resistance

Wheatcroft, S. B., Kearney, M. T., Shah, A. M., Ezzat, V. A., Miell, J. R., Modo, M., Williams, S. C. R., Cawthorn, W. P., Medina-Gomez, G., Vidal-Puig, A., Sethi, J. K. & Crossey, P. A., Feb 2007, In : *Diabetes*. 56, 2, p. 285 - 294 10 p.

Research output: Contribution to journal > Article

Neural correlates of the misattribution of speech in schizophrenia

Allen, P., Amaro, E., Fu, C. H. Y., Williams, S. C. R., Brammer, M. J., Johns, L. C. & McGuire, P. K., Feb 2007, In : *British Journal of Psychiatry*. 190, FEB., p. 162 - 169 8 p.

Research output: Contribution to journal > Article

Pharmacological MRI of stem cell transplants in the 3-nitropropionic acid-damaged striatum

Roberts, T. J., Price, J., Williams, S. C. R. & Modo, M., 5 Jan 2007, In : *Neuroscience*. 144, 1, p. 100 - 109 10 p.
Research output: Contribution to journal › Article

The role of MT+/V5 during biological motion perception in Asperger Syndrome: An fMRI study

Herrington, J. D., Baron-Cohen, S., Wheelwright, S. J., Singh, K. D., Bullmore, E. I., Brammer, M. & Williams, S., Jan 2007, In : *Research In Autism Spectrum Disorders*. 1, 1, p. 14-27 14 p.
Research output: Contribution to journal › Article

A longitudinal study of diffusion tensor MRI in ALS

Blain, C. R. V., Williams, V. C., Johnston, C., Stanton, B. R., Ganesalingam, J., Jarosz, J. M., Jones, D. K., Barker, G. J., Williams, S. C. R., Leigh, P. N. & Simmons, A., 2007, In : *Amyotrophic Lateral Sclerosis (United Kingdom)*. 8, 6, p. 348 - 355 8 p.
Research output: Contribution to journal › Article

Measuring brain stem and cerebellar damage in parkinsonian syndromes using diffusion tensor MRI

Blain, C. R. V., Barker, G. J., Jarosz, J. M., Coyle, N. A., Landau, S., Brown, R. G., Chaudhuri, K. R., Simmons, A., Jones, D. K., Williams, S. C. R. & Leigh, P. N., Dec 2006, In : *Neurology*. 67, 12, p. 2199 - 2205 7 p.
Research output: Contribution to journal › Article

Using the BOLD MR signal to differentiate the stereoisomers of ketamine in the rat

Littlewood, C. L., Cash, D., Koning (nee Dixon), A., Dix, S. L., White, C. T., O'Neill, M. J., Tricklebank, M. & Williams, S. C. R., 1 Oct 2006, In : *NeuroImage*. 32, 4, p. 1733 - 1746 14 p.
Research output: Contribution to journal › Article

Mapping the central effects of ketamine in the rat using pharmacological MRI (vol 188, pg 261, 2006)

Littlewood, C. L., Jones, N., Neill, O., Mitchell, S. N., Tricklebank, M. & Williams, S. C. R., Oct 2006, In : *Psychopharmacology*. 188, 2, p. 261 - 262 2 p.
Research output: Contribution to journal › Article

Time-resolved fMRI of mental rotation revisited—dissociating visual perception from mental rotation in female subjects

Ecker, C., Brammer, M. J., David, A. S. & Williams, S., 1 Aug 2006, In : *NeuroImage*. 32, 1, p. 432-44 13 p.
Research output: Contribution to journal › Article

H-1-MRS internal thermometry in test-objects (phantoms) to within 0.1 K for quality assurance in long-term quantitative MR studies

Samson, R. S., Thornton, J. S., McLean, M. A., Williams, S. C. R. & Tofts, P. S., Aug 2006, In : *Nmr in Biomedicine*. 19, 5, p. 560 - 565 6 p.
Research output: Contribution to journal › Article

Human attachment security is mediated by the amygdala: Evidence from combined fMRI and psychophysiological measures

Lemche, E., Giampietro, V., Surguladze, S. A., Amaro, E. J., Andrew, C. M., Williams, S. C. R., Brammer, M. J., Lawrence, N., Maier, M. A., Russell, T. A., Simmons, A., Ecker, C., Joraschky, P. & Phillips, M. L., Aug 2006, In : *Human Brain Mapping*. 27, 8, p. 623 - 635 13 p., N/A.
Research output: Contribution to journal › Article

An fMRI Study of Verbal Self-monitoring: Neural Correlates of Auditory Verbal Feedback

Fu, C. H., Vythelingum, G. N., Brammer, M. J., Williams, S. C., Amaro, E. J., Andrew, C., Yaguez, L., van Haren, N. E., Matsumoto, K. & McGuire, P. K., Jul 2006, In : *Cerebral Cortex*. 16, 7, p. 969 - 977 9 p.
Research output: Contribution to journal › Article

Applications of functional magnetic resonance imaging in psychiatry

Mitterschiffthaler, M. T., Ettinger, U., Mehta, M. A., Mataix-Cols, D. & Williams, S., Jun 2006, In : *Journal of Magnetic Resonance Imaging*. 23, 6, p. 851-861 11 p.
Research output: Contribution to journal › Literature review

In vivo estimation of the flow-driven adiabatic inversion efficiency for continuous arterial spin labeling: a method using phase contrast magnetic resonance angiography

O'Gorman, R. L., Summers, P. E., Zelaya, F. O., Williams, S. C. R., Alsop, D. C. & Lythgoe, D. J., Jun 2006, In : *Magnetic Resonance in Medicine*. 55, 6, p. 1291 - 1297 7 p.

Research output: Contribution to journal › Article

Personality factors correlate with regional cerebral perfusion

O'gorman, R. L., Kumari, V., Williams, S. C., Zelaya, F. O., Connor, S. E., Alsop, D. C. & Gray, J. A., Jun 2006, In : *NeuroImage*. 31, 2, p. 489 - 495 7 p.

Research output: Contribution to journal › Article

fMRI of parents of children with Asperger Syndrome: A pilot study

Baron-Cohen, S., Ring, H., Chitnis, X., Wheelwright, S., Gregory, L., Williams, S., Brammer, M. & Bullmore, E., Jun 2006, In : *Brain and Cognition*. 61, 1, p. 122 - 130 9 p.

Research output: Contribution to journal › Article

Mapping the central effects of ketamine in the rat using pharmacological MRI

Littlewood, C. L., Jones, N., O'Neill, M. J., Mitchell, S. N., Tricklebank, M. & Williams, S. C. R., May 2006, In : *Psychopharmacology*. 186, 1, p. 64 - 81 18 p.

Research output: Contribution to journal › Article

Neural dysfunction and violence in schizophrenia: An fMRI investigation

Kumari, V., Aasen, I., Taylor, P., Ffytche, D. H., Das, M., Barkataki, I., Goswami, S., O'Connell, P., Howlett, M., Williams, S. C. R. & Sharma, T., May 2006, In : *Schizophrenia Research*. 84, 1, p. 144-164 21 p., N/A.

Research output: Contribution to journal › Article

Altered functional neuroanatomy of response inhibition in adolescent males who were born very preterm

Nosarti, C., Rubia, K., Smith, A. B., Fearnson, S., Williams, S. C., Rifkin, L. & Murray, R. M., Apr 2006, In : *Developmental Medicine and Child Neurology*. 48, 4, p. 265 - 271 7 p.

Research output: Contribution to journal › Article

Hippocampal volume and cognitive function in anorexia nervosa

Connan, F., Murphy, F., Connor, S. E. J., Rich, P., Murphy, T., Bara-Carill, N., Landau, S., Krljes, S., Ng, V., Williams, S., Morris, R. G., Campbell, I. C. & Treasure, J., 31 Mar 2006, In : *Psychiatry Research. Neuroimaging*. 146, 2, p. 117 - 125 9 p.

Research output: Contribution to journal › Article

Age effects on diffusion tensor magnetic resonance imaging tractography measures of frontal cortex connections in schizophrenia

Jones, D. K., Catani, M., Pierpaoli, C., Reeves, S. J. C., Shergill, S. S., O'Sullivan, M., Golesworthy, P., McGuire, P., Horsfield, M. A., Simmons, A., Williams, S. C. R. & Howard, R. J., Mar 2006, In : *Human Brain Mapping*. 27, 3, p. 230 - 238 9 p.

Research output: Contribution to journal › Article

Modulation of effective connectivity by cognitive demand in phonological verbal fluency

Fu, C. H. Y., McIntosh, A. R., Kim, J., Chau, W., Bullmore, E. T., Williams, S. C. R., Honey, G. D. & McGuire, P. K., Mar 2006, In : *NeuroImage*. 30, 1, p. 266 - 271 6 p.

Research output: Contribution to journal › Article

A behavioural and functional neuroimaging investigation into the effects of nicotine on sensorimotor gating in healthy subjects and persons with schizophrenia

Postma, P., Gray, J. A., Sharma, T., Geyer, M., Mehrotra, R., Das, M., Zachariah, E., Hines, M., Williams, S. C. R. & Kumari, V., Feb 2006, In : *Psychopharmacology*. 184, 3-4, p. 589 - 599 11 p.

Research output: Contribution to journal › Article

Stroop performance in bipolar disorder: further evidence for abnormalities in the ventral prefrontal cortex

Kronhaus, D. M., Lawrence, N. S., Williams, A. M., Frangou, S., Brammer, M. J., Williams, S. C. R., Andrew, C. M. & Phillips, M. L., Feb 2006, In : *Bipolar Disorders*. 8, 1, p. 28 - 39 12 p.

Research output: Contribution to journal > Article

Neural correlates of adjunctive rivastigmine treatment to antipsychotics in schizophrenia: A randomized, placebo-controlled, double-blind fMRI study

Kumari, V., Aasen, I., Ffytche, D., Williams, S. C. R. & Sharma, T., 15 Jan 2006, In : *NeuroImage*. 29, 2, p. 545 - 556 12 p.

Research output: Contribution to journal > Article

An MR Compatible LSO-PET Scanner for Molecular Imaging Studies

Mackewn, J. E., Keevil, S. F., Hallett, W. A., Halsted, P., Page, R. A., Kelly, M., Williams, S. C. R. & Marsden, P. K., 2006, *Unknown*. NEW YORK: IEEE, p. 2986 - 2989 4 p. (2006 IEEE NUCLEAR SCIENCE SYMPOSIUM CONFERENCE RECORD, VOL 1-6).

Research output: Chapter in Book/Report/Conference proceeding > Conference paper

Preservation of striatal tissue and behavioral function after neural stem cell transplantation in a rat model of Huntington's disease

Roberts, T. J., Price, J., Williams, S. C. R. & Modo, M., 2006, In : *Neuroscience*. 139, 4, p. 1187 - 1199 13 p.

Research output: Contribution to journal > Article

Functional neuroanatomy of body shape perception in healthy and eating-disordered women

Uher, R., Murphy, T., Friederich, H. C., Dalgleish, T., Brammer, M. J., Giampietro, V., Phillips, M. L., Andrew, C. M., Ng, V. W., Williams, S. C. R., Campbell, I. C. & Treasure, J., 15 Dec 2005, In : *Biological psychiatry*. 58, 12, p. 990 - 997 8 p.

Research output: Contribution to journal > Article

The neural correlates of anhedonia in major depressive disorder

Keedwell, P. A., Andrew, C., Williams, S. C. R., Brammer, M. J. & Phillips, M. L., 1 Dec 2005, In : *Biological psychiatry*. 58, 11, p. 843 - 853 11 p.

Research output: Contribution to journal > Article

A diffusion tensor magnetic resonance imaging study of frontal cortex connections in very late-onset schizophrenia-like psychosis

Jones, D. K., Catani, M., Pierpaoli, C., Reeves, S. J., Shergill, S. S., O'Sullivan, M., Maguire, P., Horsfield, M. A., Simmons, A., Williams, S. C. R. & Howard, R. J., Dec 2005, In : *American Journal of Geriatric Psychiatry*. 13, 12, p. 1092-98 p.

Research output: Contribution to journal > Article

Effects of ketamine on prefrontal and striatal regions in an overt verbal fluency task: a functional magnetic resonance imaging study

Fu, C. H. Y., Abel, K. M., Allin, M. P. G., Gasston, D., Costafreda, S. G., Suckling, J., Williams, S. C. R. & McGuire, P. K., Nov 2005, In : *Psychopharmacology*. 183, 1, p. 92 - 102 11 p.

Research output: Contribution to journal > Article

Functional neuroanatomy of successful paired associate learning in Alzheimer's disease

Gould, R. L., Brown, R. G., Owen, A. M., Bullmore, E. T., Williams, S. C. & Howard, R. J., Nov 2005, In : *The American Journal of Psychiatry*. 162, 11, p. 2049 - 2060 12 p.

Research output: Contribution to journal > Article

Design and Development of an MR-Compatible PET Scanner for Imaging Small Animals

Mackewn, J. E., Strul, D., Hallett, W. A., Halsted, P., Page, R. A., Keevil, S. F., Williams, S. C. R., Cherry, S. R. & Marsden, P. K., Oct 2005, In : *IEEE Transactions on Nuclear Science*. 52, 5, p. 1376 - 1380 5 p., N/A.

Research output: Contribution to journal > Article

A double dissociation of ventromedial prefrontal cortical responses to sad and happy stimuli in depressed and healthy individuals

Keedwell, P. A., Andrew, C., Williams, S. C. R., Brammer, M. J. & Phillips, M. L., 15 Sep 2005, In : *Biological psychiatry*. 58, 6, p. 495 - 503 9 p.

Research output: Contribution to journal › Article

Neural correlates of the misattribution of self-generated speech

Allen, P. P., Amaro, E., Fu, C. H., Williams, S. C. R., Brammer, M., Johns, L. C. & McGuire, P. K., Sep 2005, In : Human Brain Mapping. 26, 1, p. 44 - 53 10 p.

Research output: Contribution to journal › Article

Examining the neural targets of the AMPA receptor potentiator LY404187 in the rat brain using pharmacological magnetic resonance imaging

Jones, N., O'Neill, M. J., Tricklebank, M., Libri, V. & Williams, S. C. R., Aug 2005, In : Psychopharmacology. 180, 4, p. 743 - 751 9 p.

Research output: Contribution to journal › Article

Plasma level-dependent effects of methylphenidate on task-related functional magnetic resonance imaging signal changes

Muller, U., Suckling, J., Zelaya, F. O., Honey, G., Faessel, H., Williams, S. C. R., Routledge, C., Brown, J., Robbins, T. W. & Bullmore, E. T., Aug 2005, In : Psychopharmacology. 180, 4, p. 624 - 633 10 p.

Research output: Contribution to journal › Article

Cortical organization of sensory corrections in visuomotor skill acquisition

Mitra, S., Bhalerao, A., Summers, P. & Williams, S. C. R., 1 Jul 2005, In : Neuroscience Letters. 382, 1-2, p. 76 - 81 6 p.

Research output: Contribution to journal › Article

Brain response to visceral aversive conditioning: a functional magnetic resonance imaging study

Yaguez, L., Coen, S., Gregory, L. J., Amaro, E., Altman, C., Brammer, M. J., Bullmore, E. T., Williams, S. C. R. & Aziz, Q., Jun 2005, In : Gastroenterology. 128, 7, p. 1819 - 1829 11 p.

Research output: Contribution to journal › Article

Effects of psychotic state and task demand on prefrontal function in schizophrenia: an fMRI study of overt verbal fluency

Fu, C. H., Suckling, J., Williams, S. C. R., Andrew, C., Vythelingum, G. N. & McGuire, P. K., Mar 2005, In : The American Journal of Psychiatry. 162, 3, p. 485 - 494 10 p.

Research output: Contribution to journal › Article

Frontotemporal white matter changes in amyotrophic lateral sclerosis

Abrahams, S., Goldstein, L. H., Suckling, J., Ng, V., Simmons, A., Chitnis, X., Atkins, L., Williams, S. C. R. & Leigh, P. N., Mar 2005, In : Journal of Neurology. 252, 3, p. 321 - 331 11 p.

Research output: Contribution to journal › Article

A differential pattern of neural response toward sad versus happy facial expressions in Major Depressive Disorder

Surguladze, S., Brammer, M. J., Keedwell, P., Giampietro, V., Young, A. W., Travis, M. J., Williams, S. C. & Phillips, M. L., 1 Feb 2005, In : Biological psychiatry. 57, 3, p. 201 - 209 9 p., N/A.

Research output: Contribution to journal › Article

Disruption of learned irrelevance in acute schizophrenia in a novel continuous within-subject paradigm suitable for fMRI

Young, A. M. J., Kumari, V., Mehrotra, R., Hemsley, D. R., Andrew, C., Sharma, T., Williams, S. C. R. & Gray, J. A., 30 Jan 2005, In : Behavioural brain research. 156, 2, p. 277 - 288 12 p.

Research output: Contribution to journal › Article

Neural correlates of executive function in Autistic Spectrum Disorders

Schmitz, N., Rubia, K., Daly, E., Smith, A., Williams, S. & Murphy, D., 1 Jan 2005, In : Biological psychiatry. 59, 1, p. 7 - 16 10 p.

Research output: Contribution to journal › Article

Mapping the effects of the selective dopamine D2/D3 receptor agonist quinlorane using pharmacological magnetic resonance imaging

Ireland, M. D., Lowe, A. S., Reavill, C., James, M. F., Leslie, R. A. & Williams, S. C. R., 2005, In : Neuroscience. 133, 1, p. 315 - 326 12 p.

Research output: Contribution to journal › Article

Cortical effects of quetiapine in first-episode schizophrenia: A preliminary functional magnetic resonance imaging study

Jones, H. M., Brammer, M. J., O'Toole, M., Taylor, T., Ohlsen, R. I., Brown, R. G., Purvis, R., Williams, S. & Pilowsky, L. S., 15 Dec 2004, In : *Biological psychiatry*. 56, 12, p. 938 - 942 5 p.

Research output: Contribution to journal › Article

A functional MRI study of working memory task in euthymic bipolar disorder: evidence for task-specific dysfunction

Monks, P. J., Thompson, J. M., Bullmore, E. T., Suckling, J., Brammer, M. J., Williams, S. C. R., Simmons, A., Giles, N., Lloyd, A. J., Louise Harrison, C., Seal, M., Murray, R. M., Nicol Ferrier, I., Young, A. H. & Curtis, V. A., Dec 2004, In : *Bipolar Disorders*. 6, 6, p. 550 - 564 15 p.

Research output: Contribution to journal › Article

Personality predicts brain responses to cognitive demands

Kumari, V., ffytche, D. H., Williams, S. C. R. & Gray, J. A., 24 Nov 2004, In : *Journal of Neuroscience*. 24, 47, p. 10636 - 10641 6 p.

Research output: Contribution to journal › Article

Mapping IQ and gray matter density in healthy young people

Frangou, S., Chitins, X. & Williams, S. C. R., Nov 2004, In : *NeuroImage*. 23, 3, p. 800 - 805 6 p.

Research output: Contribution to journal › Article

Attenuation of the neural response to sad faces in major depression by antidepressant treatment: a prospective, event-related functional magnetic resonance imaging study.

Fu, C. H., Williams, S. C., Cleare, A. J., Brammer, M. J., Walsh, N. D., Kim, J., Andrew, C., Pich, E. M., Williams, P. M., Reed, L. J., Mitterschiffthaler, M. T., Suckling, J. & Bullmore, E. T., Sep 2004, In : *Archives of General Psychiatry*. 61, 9, p. 877 - 889 13 p.

Research output: Contribution to journal › Article

Allocentric spatial memory activation of the hippocampal formation measured with fMRI

Parslow, D. M., Rose, D., Brooks, B., Fleming, S., Gray, J. A., Giampietro, V., Brammer, M. J., Williams, S., Gasston, D., Andrew, C., Vythelingum, G. N., Ioannou, G., Simmons, A. & Morris, R. G., Jul 2004, In : *Neuropsychology*. 18, 3, p. 450 - 461 12 p.

Research output: Contribution to journal › Article

Medial prefrontal cortex activity associated with symptom provocation in eating disorders

Uher, R., Murphy, T., Brammer, M. J., Dalgleish, T., Phillips, M. L., Ng, V. W., Andrew, C., Williams, S. C. R., Campbell, I. C. & Treasure, J., Jul 2004, In : *The American Journal of Psychiatry*. 161, 7, p. 1238 - 1246 9 p.

Research output: Contribution to journal › Conference paper

Word retrieval in amyotrophic lateral sclerosis: a functional magnetic resonance imaging study

Abrahams, S., Goldstein, L. H., Simmons, A., Brammer, M. J., Williams, S. C. R., Giampietro, V. & Leigh, P. N., Jul 2004, In : *Brain*. 127, 7, p. 1507 - 1517 11 p.

Research output: Contribution to journal › Article

Imaging localised dynamic changes in the nucleus accumbens following nicotine withdrawal in rats

Shoaib, M., Lowe, A. S. & Williams, S., Jun 2004, In : *NeuroImage*. 22, 2, p. 847 - 854 8 p.

Research output: Contribution to journal › Article

Differential neural responses to overt and covert presentations of facial expressions of fear and disgust

Phillips, M. L., Williams, L. M., Heining, M., Herba, C. M., Russell, T., Andrew, C. M., Bullmore, E. T., Brammer, M. J., Williams, S. C. R., Morgan, M., Young, A. W. & Gray, J. A., Apr 2004, In : *NeuroImage*. 21, 4, p. 1484 - 1496 13 p.

Research output: Contribution to journal › Article

Diffusion tensor MRI correlates with executive dysfunction in patients with ischaemic leukoaraiosis

O'Sullivan, M., Morris, R. G., Huckstep, B., Jones, D. K., Williams, S. C. R. & Markus, H. S., Mar 2004, In : *Journal of Neurology, Neurosurgery and Psychiatry*. 75, 3, p. 441 - 447 7 p.

Research output: Contribution to journal › Article

Heterozygous PAX6 mutation, adult brain structure and fronto-striato-thalamic function in a human family

Ellison-Wright, Z., Heyman, I., Frampton, I., Rubia, K., Chitnis, X., Ellison-Wright, I., Williams, S. C. R., Suckling, J., Simmons, A. & Bullmore, E., Mar 2004, In : European Journal of Neuroscience. 19, 6, p. 1505 - 1512 8 p.

Research output: Contribution to journal › Article

In vivo monitoring of cellular transplants by magnetic resonance imaging and positron emission tomography

Modo, M., Roberts, T. J., Sandhu, J. K. & Williams, S. C. R., Feb 2004, In : EXPERT OPINION ON BIOLOGICAL THERAPY. 4, 2, p. 145 - 155 11 p.

Research output: Contribution to journal › Literature review

Mapping transplanted stem cell migration after a stroke: a serial, in vivo magnetic resonance imaging study

Modo, M., Mellodew, K., Cash, D., Fraser, S. E., Meade, T. J., Price, J. & Williams, S. C. R., Jan 2004, In : NeuroImage. 21, 1, p. 311 - 317 7 p.

Research output: Contribution to journal › Article

Temporal course of auditory hallucinations

Shergill, S. S., Brammer, M. J., Amaro, E., Williams, S. C. R., Murray, R. M. & McGuire, P. K., 2004, In : British Journal of Forensic Psychiatry. 185, 6, p. 516-517 2 p.

Research output: Contribution to journal › Article

The neuronal nitric oxide synthase inhibitor, TRIM, as a neuroprotective agent: effects in models of cerebral ischaemia using histological and magnetic resonance imaging techniques

Haga, K. K., Gregory, L. J., Hicks, C. A., Ward, M. A., Beech, J. S., Bath, P. W., Williams, S. C. R. & O'Neill, M. J., 12 Dec 2003, In : Brain Research. 993, 1-2, p. 42 - 53 12 p.

Research output: Contribution to journal › Article

Cognitive modulation of the cerebral processing of human oesophageal sensation using functional magnetic resonance imaging.

Gregory, L. J., Yaguez, L., Williams, S. C., Altmann, C., Coen, S., Ng, V., Brammer, M. J., Thompson, D. G. & Aziz, Q., Dec 2003, In : Gut. 52, 12, p. 1671 - 1677 7 p.

Research output: Contribution to journal › Article

Frontal lobe N-acetylaspartate correlates with psychopathology in schizophrenia: a proton magnetic resonance spectroscopy study.

Sigmundsson, T., Maier, M., Toone, B. K., Williams, S. C., Simmons, A., Greenwood, K. & Ron, M. A., 1 Nov 2003, In : Schizophrenia Research. 64, 1, p. 63 - 71 9 p.

Research output: Contribution to journal › Article

Recovery and chronicity in anorexia nervosa: brain activity associated with differential outcomes.

Uher, R., Brammer, M. J., Murphy, T., Campbell, I. C., Ng, V. W., Williams, S. C. & Treasure, J., 1 Nov 2003, In : Biological psychiatry. 54, 9, p. 934 - 942 9 p.

Research output: Contribution to journal › Article

Latex allergy. A position paper of the british society of allergy and clinical immunology

Cullinan, P., Brown, R., Field, A., Hourihane, J., Jones, M., Kekwick, R., Rycroft, R., Stenz, R., Williams, S. & Woodhouse, C., Nov 2003, In : Clinical and Experimental Allergy. 33, 11, p. 1484 - 1499 16 p.

Research output: Contribution to journal › Literature review

Neural abnormalities during cognitive generation of affect in treatment-resistant depression.

Kumari, V., Mitterschiffthaler, M. T., Teasdale, J. D., Malhi, G. S., Brown, R. G., Giampietro, V., Brammer, M. J., Poon, L., Simmons, A., Williams, S. C. R., Checkley, S. A. & Sharma, T., 15 Oct 2003, In : Biological psychiatry. 54, 8, p. 777 - 791 15 p.

Research output: Contribution to journal › Article

N-acetyl aspartate estimation: a potential method for determining neuronal loss in the transmissible spongiform encephalopathies

Chung, Y. L., Barr, J., Bhakoo, K., Williams, S. C. R., Bell, J. D. & Fraser, J. R., Oct 2003, In : *Neuropathology and Applied Neurobiology*. 29, 5, p. 445 - 450 6 p.

Research output: [Contribution to journal](#) › [Article](#)

Functional magnetic resonance imaging of verbal fluency and confrontation naming using compressed image acquisition to permit overt responses.

Abrahams, S., Goldstein, L. H., Simmons, A., Brammer, M. J., Williams, S. C. R., Giampietro, V., Andrew, C. M. & Leigh, P. N., 1 Sep 2003, In : *Human Brain Mapping*. 20, 1, p. 29 - 40 12 p.

Research output: [Contribution to journal](#) › [Article](#)

Regionally localized thinning of the cerebral cortex in schizophrenia

Kuperberg, G. R., Broome, M. R., McGuire, P. K., David, A. S., Eddy, M., Ozawa, F., Goff, D., West, W. C., Williams, S. C. R., van der Kouwe, A. J. W., Salat, D. H., Dale, A. M. & Fischl, B., 1 Sep 2003, In : *Archives of General Psychiatry*. 60, 9, p. 878 - 888 11 p.

Research output: [Contribution to journal](#) › [Article](#)

The functional neuroanatomy of schizophrenic subsyndromes

Honey, G. D., Sharma, T., Suckling, J., Giampietro, V., Soni, W., Williams, S. C. R. & Bullmore, E. T., Sep 2003, In : *Psychological Medicine*. 33, 6, p. 1007 - 1018 12 p.

Research output: [Contribution to journal](#) › [Article](#)

A preferential increase in the extrastriate response to signals of danger

Surguladze, S., Brammer, M., Young, A., Andrew, C., Travis, M. J., Williams, S. C. R. & Phillips, M. L., 1 Aug 2003, In : *NeuroImage*. 19, 4, p. 1317 - 1328 12 p.

Research output: [Contribution to journal](#) › [Article](#)

Dopaminergic drug effects on physiological connectivity in a human cortico-striato-thalamic system

Honey, G. D., Suckling, J., Zelaya, F., Long, C., Routledge, C., Jackson, S., Ng, V., Fletcher, P. C., Williams, S. C., Brown, J. & Bullmore, E. T., 1 Aug 2003, In : *Brain*. 126, 8, p. 1767 - 1781 15 p.

Research output: [Contribution to journal](#) › [Article](#)

Cognitive effects of nicotine in humans: an fMRI study.

Kumari, V., Gray, J. A., ffytche, D. H., Mitterschiffthaler, M. T., Das, M., Zachariah, E., Vythelingum, G. N., Williams, S. C., Simmons, A. & Sharma, T., 1 Jul 2003, In : *NeuroImage*. 19, 3, p. 1002 - 1013 12 p.

Research output: [Contribution to journal](#) › [Article](#)

Engagement of brain areas implicated in processing inner speech in people with auditory hallucinations.

Shergill, S. S., Brammer, M. J., Fukuda, R., Williams, S. C., Murray, R. M. & McGuire, P. K., 1 Jun 2003, In : *British Journal of Psychiatry*. 182, 6, p. 525 - 531 7 p.

Research output: [Contribution to journal](#) › [Article](#)

Attenuated engagement of brain areas implicated in processing inner speech in patients with auditory hallucinations

Shergill, S. S., Brammer, M. J., Fukuda, R., Williams, S. C. R., Murray, R. M. & McGuire, P. K., Jun 2003, In : *British Journal of Psychiatry*. 182, 6, p. 525-531 7 p., N/A.

Research output: [Contribution to journal](#) › [Article](#)

Neural correlates of anxiety associated with obsessive-compulsive symptom dimensions in normal volunteers

Mataix-Cols, D., Cullen, S., Lange, K., Zelaya, F., Andrew, C., Amaro, E., Brammer, M., Williams, S., Speckens, A. & Phillips, M. L., 15 Mar 2003, In : *Biological psychiatry*. 53, 6, p. 482 - 493 12 p.

Research output: [Contribution to journal](#) › [Article](#)

Ketamine alters neural processing of facial emotion recognition in healthy men: an fMRI study

Abel, K. M., Allin, M. P. G., Kucharska-Pietura, K., David, A., Andrew, C., Williams, S., Brammer, M. J. & Phillips, M. L., 3 Mar 2003, In : *Neuroreport*. 14, 3, p. 387 - 391 5 p.

Research output: [Contribution to journal](#) › [Article](#)

The effect of negative emotional context on neural and behavioural responses to oesophageal stimulation

Phillips, M. L., Gregory, L. J., Cullen, S., Coen, S., Ng, V., Andrew, C., Giampietro, V., Bullmore, E., Zelaya, F., Amaro, E., Thompson, D. G., Hobson, A. R., Williams, S. C. R., Brammer, M. & Aziz, Q., 1 Mar 2003, In : *Brain*. 126, 3, p. 669 - 684 16 p.

Research output: Contribution to journal > Article

Neural correlates of tactile prepulse inhibition: a functional MRI study in normal and schizophrenic subjects

Kumari, V., Gray, J. A., Geyer, M. A., ffytche, D., Soni, W., Mitterschiffthaler, M. T., Vythelingum, G. N., Simmons, A., Williams, S. C. R. & Sharma, T., 15 Feb 2003, In : *Psychiatry Research. Neuroimaging*. 122, 2, p. 99 - 113 15 p.

Research output: Contribution to journal > Article

Practice and difficulty evoke anatomically and pharmacologically dissociable brain activation dynamics

Bullmore, E., Suckling, J., Zelaya, F., Long, C., Honey, G., Reed, L., Routledge, C., Ng, V., Fletcher, P., Brown, J. & Williams, S. C. R., 1 Feb 2003, In : *Cerebral Cortex*. 13, 2, p. 144 - 154 11 p.

Research output: Contribution to journal > Article

Task instructions modulate neural responses to fearful facial expressions.

Lange, K., Williams, L. M., Young, A. W., Bullmore, E. T., Brammer, M. J., Williams, S. C., Gray, J. A. & Phillips, M. L., 1 Feb 2003, In : *Biological psychiatry*. 53, 3, p. 226 - 232 7 p.

Research output: Contribution to journal > Article

Gamma shielding materials for MR-compatible PET

Strul, D., Cash, D., Keevil, S. F., Halsted, P., Williams, S. C. R. & Marsden, P. K., Feb 2003, In : *IEEE Transactions on Nuclear Science*. 50, 1, p. 60 - 69 10 p.

Research output: Contribution to journal > Article

Ketamine and fMRI BOLD signal: Distinguishing between effects mediated by change in blood flow versus change in cognitive state.

Abel, K. M., Allin, M. P., Kucharska-Pietura, K., Andrew, C., Williams, S., David, A. S. & Phillips, M. L., Feb 2003, In : *Human Brain Mapping*. 18, 2, p. 135 - 145 11 p.

Research output: Contribution to journal > Article

Pharmacological magnetic resonance imaging of transmitter mechanisms for large-scale brain adaptivity

Bullmore, E., Zelaya, F., Long, C., Williams, S., Suckling, J., Honey, G., Reed, L., Fletcher, P., Brown, J., Ng, V. & Routledge, C., 2003, *PSYCHIATRIC NEUROIMAGING*. Ng, V., Barker, G. J. & Hendler, T. (eds.). AMSTERDAM: I O S PRESS, p. 170-176 7 p.

Research output: Chapter in Book/Report/Conference proceeding > Conference paper

Acoustic noise and functional magnetic resonance imaging: Current strategies and future prospects

Amaro, E., Williams, S. C. R., Shergill, S. S., Fu, C. H. Y., MacSweeney, M., Picchioni, M. M., Brammer, M. J. & McGuire, P. K., 1 Nov 2002, In : *Journal of Magnetic Resonance Imaging*. 16, 5, p. 497 - 510 14 p.

Research output: Contribution to journal > Literature review

Tracking Transplanted Stem Cell Migration Using Bifunctional, Contrast Agent-Enhanced, Magnetic Resonance Imaging

Modo, M., Cash, D., Mellodow, K., Williams, S. C. R., Fraser, S. E., Meade, T. J., Price, J. & Hodges, H., Oct 2002, In : *NeuroImage*. 17, 2, p. 803-811 9 p.

Research output: Contribution to journal > Article

Procedural learning in schizophrenia: a functional magnetic resonance imaging investigation

Kumari, V., Gray, J. A., Honey, G. D., Soni, W., Bullmore, E. T., Williams, S. C. R., Ng, V. W., Vythelingum, G. N., Simmons, A., Suckling, J., Corr, P. J. & Sharma, T., 1 Sep 2002, In : *Schizophrenia Research*. 57, 1, p. 97 - 107 11 p.

Research output: Contribution to journal > Article

Patterns of cerebral blood flow reduction in patients with ischemic leukoaraiosis

O'Sullivan, M., Lythgoe, D., Pereira, A. C., Summers, P. E., Jarosz, J. M., Williams, S. C. R. & Markus, H. S., 13 Aug 2002, In : *Neurology*. 59, 3, p. 321 - 326 6 p.

Research output: Contribution to journal › Article

A flexible protocol for silent and partially silent, segmented acquisition of fMRI data for arbitrary administration of auditory cues and collection of verbal responses

Zelaya, F. O., Amaro, E., Andrew, C. & Williams, S. C. R., 2002, In : *Magma: Magnetic Resonance Materials in Physics, Biology and Medicine*. 15, 1, p. 165 - 165 1 p.

Research output: Contribution to journal › Article

A functional magnetic resonance imaging study of overt letter verbal fluency using a clustered acquisition sequence: greater anterior cingulate activation with increased task demand.

Fu, C., Morgan, K., Suckling, J., Williams, S. C. R., Andrew, C., Vythelingum, G. N. & McGuire, P. K., 2002, In : *NeuroImage*. 17, 2, p. 871 - 879 9 p.

Research output: Contribution to journal › Article

Contemporary neuroimaging of cerebral ischaemia

Modo, M., Zelaya, F., Lythgoe, D., Amaro, E., Beech, J. & Williams, S., 2002, *Pharmacology of Cerebral Ischemia*. Kriegelstein, J. & Klumpp, S. (eds.). Medpharm Scientific Publisher, p. 539-558

Research output: Chapter in Book/Report/Conference proceeding › Chapter

Effects of Verbal Working Memory Load on Corticocortical Connectivity Modeled by path analysis of functional magnetic resonance imaging data.

Honey, G. D., Fu, C. Y., Kim, J., Brammer, M. J., Croudage, T. J., Suckling, J., Pich, E. M., Williams, S. C. R. & Bullmore, E. T., 2002, In : *NeuroImage*. 17, 2, p. 573 - 582 10 p.

Research output: Contribution to journal › Article

Functional imaging of the mechanisms underlying the bilateral field advantage

Santhouse, A. M., ffytche, D. H., Howard, R. J., Williams, S. C. R., Rifkin, L. & Murray, R. M., 2002, In : *NeuroImage*. 17, 2, p. 680 - 687 8 p.

Research output: Contribution to journal › Article

Functional magnetic resonance imaging of synesthesia: activation V4/V8 by spoken words.

Nunn, J. A., Gregory, L. J., Brammer, M., Williams, S. C. R., Parslow, D. M., Morgan, M. J., Morris, R. G., Bullmore, E., Baron-Cohen, S. & Gray, J. A., 2002, In : *Nature Neuroscience*. 5, 4, p. 371 - 375 5 p.

Research output: Contribution to journal › Article

Functional magnetic resonance neuroimaging of drug dependence: Naloxone-precipitated morphine withdrawal.

Lowe, A. S., Williams, S. C. R., Symms, M. R., Stolerman, I. P. & Shoaib, M., 2002, In : *NeuroImage*. 17, 2, p. 902 - 910 9 p.

Research output: Contribution to journal › Article

Imaging: MRS/MRI/PET/SPECT: Summary

Leigh, P. N., Simmons, A., Williams, S., Williams, V., Turner, M. & Brooks, D., 2002, In : *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders*. 3, SUPPL. 1, p. S75 - S80

Research output: Contribution to journal › Conference paper

Implications of synaesthesia for functionalism - Theory and experiments

Gray, J. A., Chopping, S., Nunn, J., Parslow, D., Gregory, L., Williams, S., Brammer, M. J. & Baron-Cohen, S., 2002, In : *Journal of Consciousness Studies*. 9, 12, p. 5 - 31 27 p.

Research output: Contribution to journal › Article

Isotropic resolution diffusion tensor imaging with whole brain acquisition in a clinically acceptable time.

Jones, D. K., Williams, S. C., Gasston, D., Horsfield, M. A., Simmons, A. & Howard, R., 2002, In : *Human Brain Mapping*. 15, 4, p. 216 - 230 15 p.

Research output: Contribution to journal › Article

Neural systems underlying British Sign Language and audio-visual English processing in native users

MacSweeney, M., Woll, B., Campbell, R., McGuire, P. K., David, A. S., Williams, S. C. R., Suckling, J., Calvert, G. A. & Brammer, M. J., 2002, In : *Brain*. 125, 7, p. 1583 - 1593 11 p.

Research output: Contribution to journal > Article

Novelty-related activation within the medial temporal lobes

Hunkin, N. M., Mayes, A. R., Gregory, L. J., Nicholas, A. K., Nunn, J. A., Brammer, M. J., Bullmore, E. T. & Williams, S. C. R., 2002, In : *Neuropsychologia*. 40, 8, p. 1456 - 1464 9 p.

Research output: Contribution to journal > Article

Reversed lateralization of temporal activation during speech production in thought disordered patients with schizophrenia

Kircher, T. T. J., Liddle, P. F., Brammer, M. J., Williams, S. C. R., Murray, R. M. & McGuire, P. K., 2002, In : *Psychological Medicine*. 32, 3, p. 439 - 449 11 p.

Research output: Contribution to journal > Article

Serial investigation of functional and structural deficits in sub-acute and chronic stroke patients by means of functional magnetic resonance imaging and diffusion tensor imaging

Zelaya, F. O., Ng, V., Evans, A., Jones, D., Lythgoe, D., Shaw, K., Williams, S. C. R. & Kalra, L., 2002, In : *Magma: Magnetic Resonance Materials in Physics, Biology and Medicine*. 15, 1, p. 115 - 116 2 p.

Research output: Contribution to journal > Article

Sex differences in functional brain activation during a lexical visual field task

Rossell, S. L., Bullmore, E. T., Williams, S. C. R. & David, A. S., 2002, In : *Brain and Language*. 80, 1, p. 97 - 105 9 p.

Research output: Contribution to journal > Article

Simultaneous PET and NMR

Marsden, P. K., Strul, D., Keevil, S. F., Williams, S. C. & Cash, D., 2002, In : *British Journal of Radiology*. 75 Spec No, p. S53 - S59

Research output: Contribution to journal > Article

Social intelligence in the normal and autistic brain : an fMRI study

Baron-Cohen, S., Ring, H. A., Wheelwright, S., Bullmore, E. T., Brammer, M., Simmons, A. & Williams, S., 2002, *Foundations in Social Neurosciences*. MIT Press

Research output: Chapter in Book/Report/Conference proceeding > Chapter

Spatial normalization and averaging of diffusion tensor MRI data sets

Jones, D. K., Griffin, L. D., Alexander, D. C., Catani, M., Horsfield, M. A., Howard, R. & Williams, S. C. R., 2002, In : *NeuroImage*. 17, 2, p. 592 - 617 26 p.

Research output: Contribution to journal > Article

Speechreading circuits in people born deaf

MacSweeney, M., Calvert, G. A., Campbell, R., McGuire, P. K., David, A. S., Williams, S. C. R., Woll, B. & Brammer, M. J., 2002, In : *Neuropsychologia*. 40, 7, p. 801 - 807 7 p.

Research output: Contribution to journal > Article

The functional significance of perinatal corpus callosum damage: an fMRI study in young adults.

Santhouse, A. M., Ffytche, D. H., Howard, R. J., Williams, S. C., Stewart, A. L., Rooney, M., Wyatt, J. S., Rifkin, L. & Murray, R. M., 2002, In : *Brain*. 125, 8, p. 1782 - 1792 11 p.

Research output: Contribution to journal > Article

Depersonalization disorder: thinking without feeling

Phillips, M. L., Medford, N., Senior, C., Bullmore, E. T., Suckling, J., Brammer, M. J., Andrew, C., Sierra, M., Williams, S. C. R. & David, A. S., 30 Dec 2001, In : *Psychiatry Research. Neuroimaging*. 108, 3, p. 145 - 160 16 p.

Research output: Contribution to journal > Article

Normal-appearing white matter in ischemic leukoaraiosis: A diffusion tensor MRI study

O'Sullivan, M., Summers, P. E., Jones, D. K., Jarosz, J. M., Williams, S. C. R. & Markus, H. S., 26 Dec 2001, In : *Neurology*. 57, 12, p. 2307 - 2310 4 p.

Research output: Contribution to journal › Article

Neuroimaging correlates of negative priming

Steel, C., Haworth, E. J., Peters, E., Hemsley, D. R., Sharma, T., Gray, J. A., Pickering, A., Gregory, L., Simmons, A., Bullmore, E. T. & Williams, S. C. R., 16 Nov 2001, In : *Neuroreport*. 12, 16, p. 3619 - 3624 6 p.

Research output: Contribution to journal › Article

Volumetric analysis reveals corticospinal tract degeneration and extramotor involvement in ALS

Ellis, C. M., Suckling, J., Amaro, E., Bullmore, E. T., Simmons, A., Williams, S. C. R. & Leigh, P. N., 13 Nov 2001, In : *Neurology*. 57, 9, p. 1571 - 1578 8 p.

Research output: Contribution to journal › Article

Modality specific neural correlates of auditory and somatic hallucinations.

Shergill, S. S., Cameron, L. A., Brammer, M. J., Williams, S. C. R., Murray, R. M. & McGuire, P. K., Nov 2001, In : *Journal of Neurology, Neurosurgery and Psychiatry*. 71, 5, p. 688 - 690 3 p.

Research output: Contribution to journal › Article

Diffusion-weighted magnetic resonance imaging detects early neuropathology following four vessel occlusion ischemia in the rat

Gregory, L. J., O'Neill, M. J., Nunn, J. A., Gray, J. A. & Williams, S. C. R., Sep 2001, In : *Journal of Magnetic Resonance Imaging*. 14, 3, p. 207-214 8 p.

Research output: Contribution to journal › Article

Evidence for cortical "disconnection" as a mechanism of age-related cognitive decline.

O'Sullivan, M., Jones, D. K., Summers, P. E., Morris, R. G., Williams, S. C. R. & Marcus, D. M., 28 Aug 2001, In : *Neurology*. 57, 4, p. 632 - 638 7 p.

Research output: Contribution to journal › Article

Magnetic resonance markers of ischaemia: their correlation with vasodilatory reserve in patients with carotid artery stenosis and occlusion

Lythgoe, D., Simmons, A., Pereira, A., Cullinane, M., Williams, S. & Markus, H. S., Jul 2001, In : *Journal of Neurology, Neurosurgery and Psychiatry*. 71, 1, p. 58 - 62 5 p.

Research output: Contribution to journal › Article

The effect of acute hypoglycemia on brain function and activation: a functional magnetic resonance imaging study

Rosenthal, J. M., Amiel, S. A., Yaguez, L., Bullmore, E., Hopkins, D., Evans, M., Pernet, A., Reid, H., Giampietro, V., Andrew, C., Suckling, J., Simmons, A. & Williams, S. C. R., Jul 2001, In : *Diabetes*. 50, 7, p. 1618 -1626 9 p.

Research output: Contribution to journal › Article

Neuroprotective effect of aminoguanidine on transient focal ischaemia in the rat brain

Cash, D., Beech, J. S., Rayne, R. C., Bath, P. M. W., Meldrum, B. S. & Williams, S. C. R., 29 Jun 2001, In : *Brain Research*. 905, 1-2, p. 91-103 13 p.

Research output: Contribution to journal › Article

Differential activation of temporal cortex during sentence completion in schizophrenic patients with and without formal thought disorder

Kircher, T. T. J., Bullmore, E. T., Brammer, M. J., Williams, S. C. R., Broome, M. R., Murray, R. M. & McGuire, P. K., 30 May 2001, In : *Schizophrenia Research*. 50, 1-2, p. 27 - 40 14 p.

Research output: Contribution to journal › Article

Structural magnetic imaging of the hippocampus in early onset schizophrenia.

Matsumoto, H., Simmons, A., Williams, S., Pipe, R., Murray, R. & Frangou, S., 15 May 2001, In : *Biological psychiatry*. 49, 10, p. 824 - 831 8 p.

Research output: Contribution to journal › Article

Further characterisation of a thromboembolic model of stroke in the rat

Beech, J. S., Williams, S. C. R., Campbell, C. A., Bath, P. M. W., Parsons, A. A., Hunter, A. J. & Menon, D. K., 23 Mar 2001, In : Brain Research. 895, 1-2, p. 18 - 24 7 p.

Research output: Contribution to journal > Article

A functional study of auditory verbal imagery

Shergill, S. S., Bullmore, E. T., Brammer, M. J., Williams, S. C. R., Murray, R. M. & McGuire, P. K., Jan 2001, In : Psychological Medicine. 31, 2, p. 241 - 253 13 p.

Research output: Contribution to journal > Article

Brain activation during automatic and controlled processing of semantic relations: a priming experiment using lexical-decision

Rossell, S. L., Bullmore, E. T., Williams, S. C. R. & David, A. S., 2001, In : Neuropsychologia. 39, 11, p. 1167 - 1176 10 p.

Research output: Contribution to journal > Article

Differential frontal activation in schizophrenia and bipolar illness during verbal fluency.

Curtis, V. A., Dixon, T., Bullmore, E. T., Brammer, M. J., Williams, S. C. R., Morris, R. G., Sharma, T., Murray, R. & McGuire, P. K., 2001, In : Journal of Affective Disorders. 66, 2-3, p. 111 - 121 11 p.

Research output: Contribution to journal > Article

Distributed grey and white matter deficits in hyperkinetic disorder: MRI evidence for anatomic abnormality in an attentional network.

Overmeyer, S., Bullmore, E. T., Suckling, J., Simmons, A., Williams, S. C. R., Santosh, P. J. & Taylor, E., 2001, In : Psychological Medicine. 31, 8, p. 1425 - 1435 11 p.

Research output: Contribution to journal > Article

Engagement of right temporal cortex during processing of linguistic context

Kircher, T. T. J., Brammer, M., Andreu, N. T., Williams, S. C. R. & McGuire, P. K., 2001, In : Neuropsychologia. 39, 8, p. 798 - 809 12 p.

Research output: Contribution to journal > Article

Functional magnetic resonance imaging of odor identification: The effect of aging

Suzuki, Y., Critchley, H. D., Suckling, J., Fukuda, R., Williams, S. C. R., Andrew, C., Howard, R., Ouldred, E., Bryant, C., Swift, C. G. & Jackson, S. H. D., 2001, In : Journals of Gerontology Series. A, Biological Sciences and Medical Sciences. 56, 12, p. M756 - M760

Research output: Contribution to journal > Article

Identifying rate-limiting nodes in large-scale cortical networks for visuospatial processing: An illustration using fMRI

Ng, V. W. K., Bullmore, E. T., de Zubicaray, G. I., Cooper, A., Suckling, J. & Williams, S. C. R., 2001, In : JOURNAL OF COGNITIVE NEUROSCIENCE. 13, 4, p. 537 - 545 9 p.

Research output: Contribution to journal > Article

Mapping motor inhibition: Conjunctive brain activations across different versions of go/no-go and stop tasks

Rubia, K., Russell, T., Overmeyer, S., Brammer, M. J., Bullmore, E. T., Sharma, T., Simmons, A., Williams, S. C. R., Giampietro, V., Andrew, C. & Taylor, E., 2001, In : NeuroImage. 13, 2, p. 250 - 261 12 p.

Research output: Contribution to journal > Article

Neural correlates of formal thought disorder in schizophrenia: preliminary findings from a functional magnetic resonance imaging study

Kircher, T., Liddle, P. F., Brammer, M., Williams, S., Murray, R. M. & McGuire, P. K., 2001, In : Archives of General Psychiatry. 58, 8, p. 769-774 6 p.

Research output: Contribution to journal > Article

Neuroprotection in ischemia-reperfusion injury: an antiinflammatory approach using a novel broad-spectrum chemokine inhibitor.

Beech, J. S., Reckless, J., Mosedale, D. E., Grainger, D. J., Williams, S. C. R. & Menon, D. K., 2001, In : Journal of Cerebral Blood Flow and Metabolism. 21, 6, p. 683 - 689 7 p.
Research output: Contribution to journal > Article

Structural abnormalities in frontal, temporal, and limbic regions and interconnecting white matter tracts in schizophrenic patients with prominent negative symptoms

Sigmundsson, T., Suckling, J., Maier, M., Williams, S. C. R., Bullmore, E. T., Greenwood, K. E., Fukuda, R., Ron, M. A. & Toone, B. K., 2001, In : The American Journal of Psychiatry. 158, 2, p. 234 - 243 10 p.
Research output: Contribution to journal > Article

Superior temporal gyrus abnormalities in early onset schizophrenia : similarities and differences with adult-onset schizophrenia.

Matsumoto, H., Simmons, A., Williams, S. C. R., Hadjulis, M., Pipe, R., Murray, R. & Frangou, S., 2001, In : The American Journal of Psychiatry. 158, 8, p. 1299 - 1304 6 p.
Research output: Contribution to journal > Article

Time courses of left and right amygdalar responses to fearful facial expressions.

Phillips, M. L., Medford, N., Young, A. W., Williams, L., Williams, S. C. R., Bullmore, E. T., Gray, J. A. & Brammer, M. J., 2001, In : Human Brain Mapping. 12, 4, p. 193 - 202 10 p.
Research output: Contribution to journal > Article

Widespread anatomical abnormalities of grey and white matter structure in tuberous sclerosis.

Ridler, K., Bullmore, E. T., De Vries, P. J., Suckling, J., Barker, G. J., Meara, S. J., Williams, S. C. & Bolton, P. F., 2001, In : Psychological Medicine. 31, 8, p. 1437 - 1446 10 p.
Research output: Contribution to journal > Article

An event-related fMRI study of overt verbal self-monitoring

Fu, C. H. Y., Ahmad, F., Amaro, E., Brammer, M. J., Williams, S. C. R., Vythelingum, N., Andrew, C., Simmons, A., Giampietro, V. & McGuire, P. K., 1 Dec 2000, In : NeuroImage. 11, 5 PART II
Research output: Contribution to journal > Article

The functional neuroanatomy of social behaviour: Changes in cerebral blood flow when people with autistic disorder process facial expressions

Critchley, H. D., Daly, E. M., Bullmore, E. T., Williams, S. C. R., Van Amelsvoort, T., Robertson, D. M., Rowe, A., Phillips, M., McAlonan, G., Howlin, P. & Murphy, D. G. M., Nov 2000, In : Brain. 123, 11, p. 2203-2212 10 p.
Research output: Contribution to journal > Article

Towards a functional neuroanatomy of self processing: effects of faces and words

Kircher, T. T. J., Senior, C., Phillips, M. L., Benson, P. J., Bullmore, E. T., Brammer, M., Simmons, A., Williams, S. C. R., Bartels, M. & David, A. S., Sep 2000, In : Cognitive Brain Research. 10, 1-2, p. 133-144 12 p.
Research output: Contribution to journal > Article

Cerebral regions associated with verbal response initiation, suppression and strategy use

de Zubicaray, G. I., Zelaya, F. O., Andrew, C., Williams, S. C. R. & Bullmore, E. T., 1 Aug 2000, In : Neuropsychologia. 38, 9, p. 1292 - 1304 13 p.
Research output: Contribution to journal > Article

Motor response suppression and the prepotent tendency to respond: a parametric fMRI study

de Zubicaray, G. I., Andrew, C., Zelaya, F. O., Williams, S. C. R. & Dumanoir, C., 1 Aug 2000, In : Neuropsychologia. 38, 9, p. 1280 - 1291 12 p.
Research output: Contribution to journal > Article

Hemispheric preference in visuospatial processing: A complementary approach with fMRI and lesion studies

Ng, V. W. K., Eslinger, P. J., Williams, S. C. R., Brammer, M. J., Bullmore, E. T., Andrew, C. M., Suckling, J., Morris, R. G. & Benton, A. L., Jun 2000, In : Human Brain Mapping. 10, 2, p. 80 - 86 7 p.
Research output: Contribution to journal > Article

The amygdala theory of autism

Baron-Cohen, S., Ring, H. A., Bullmore, E. T., Wheelwright, S., Ashwin, C. & Williams, S. C. R., May 2000, In : Neuroscience and Biobehavioral Reviews. 24, 3, p. 355 - 364 10 p.

Research output: Contribution to journal › Literature review

Cortical processing of human somatic and visceral sensation

Aziz, Q., Thompson, D. G., Ng, V. W. K., Hamdy, S., Sarkar, S., Brammer, M. J., Bullmore, E. T., Hobson, A., Tracey, I., Gregory, L., Simmons, A. & Williams, S. C. R., 1 Apr 2000, In : Journal of Neuroscience. 20, 7, p. 2657 - 2663 7 p.

Research output: Contribution to journal › Article

How good is good enough in path analysis of fMRI data?

Bullmore, E., Horwitz, B., Honey, G., Brammer, M., Williams, S. & Sharma, T., Apr 2000, In : NeuroImage. 11, 4, p. 289 - 301 13 p.

Research output: Contribution to journal › Article

Explicit and implicit neural mechanisms for processing of social information from facial expressions: A functional magnetic resonance imaging study

Critchley, H., Daly, E., Phillips, M., Brammer, M., Bullmore, E., Williams, S., Van Amelsvoort, T., Robertson, D., David, A. & Murphy, D., Feb 2000, In : Human Brain Mapping. 9, 2, p. 93 - 105 13 p.

Research output: Contribution to journal › Article

Functional frontalisation with age: mapping neurodevelopmental trajectories with fMRI

Rubia, K., Overmeyer, S., Taylor, E., Brammer, M., Williams, S. C. R., Simmons, A., Andrew, C. & Bullmore, E. T., Jan 2000, In : Neuroscience and Biobehavioral Reviews. 24, 1, p. 13 - 19 7 p.

Research output: Contribution to journal › Conference paper

Quantitative perfusion imaging in carotid artery stenosis using dynamic susceptibility contrast-enhanced magnetic resonance imaging

Lythgoe, D., Ostergaard, L., Williams, S. C. R., Cluckie, A., Buxton-Thomas, M., Simmons, A. & Markus, H. S., Jan 2000, In : Magnetic Resonance Imaging. 18, 1, p. 1-11 11 p.

Research output: Contribution to journal › Article

A differential neural response in obsessive-compulsive disorder patients with washing compared with checking symptoms to disgust

Phillips, M. L., Marks, I. M., Senior, C., Lythgoe, D., O'Dwyer, A. M., Meehan, O., Williams, S. C. R., Brammer, M. J., Bullmore, E. T. & McGuire, P. K., 2000, In : Psychological Medicine. 30, 5, p. 1037 - 1050 14 p.

Research output: Contribution to journal › Article

A temporal MRI assessment of neuropathology after transient middle cerebral artery occlusion in the rat: Correlations with behavior

Virley, D., Beech, J. S., Smart, S. C., Williams, S. C. R., Hodges, H. & Hunter, A. J., 2000, In : Journal of Cerebral Blood Flow and Metabolism. 20, 3, p. 563 - 582 20 p.

Research output: Contribution to journal › Article

Common and distinct neural substrates for pragmatic, semantic, and syntactic processing of spoken sentences: an fMRI study

Kuperberg, G. R., McGuire, P. K., Bullmore, E. T., Brammer, M. J., Rabe-Hesketh, S., Wright, I. C., Lythgoe, D., Williams, S. C. R. & David, A. S., 2000, In : JOURNAL OF COGNITIVE NEUROSCIENCE. 12, 2, p. 321 - 341 21 p.

Research output: Contribution to journal › Literature review

Corpus callosum may be similar in children with ADHD and siblings of children with ADHD

Overmeyer, S., Simmons, A., Santosh, J., Andrew, C., Williams, S. C. R., Taylor, A., Chen, W. & Taylor, E., 2000, In : Developmental Medicine and Child Neurology. 42, 1, p. 8 - 13 6 p.

Research output: Contribution to journal › Article

Does frontal lobe activation during retrieval reflect complexity of retrieved information?

Hunkin, N. M., Mayes, A. R., Williams, S. C. R., Gregory, L. J., Nunn, J. A., Nicholas, A. K., Brammer, M. J. & Bullmore, E. T., 2000, In : *Neuroreport*. 11, 3, p. 557 - 561 5 p.

Research output: Contribution to journal › Article

Effects of three different doses of a bolus injection of gadodiamide: Assessment of regional cerebral blood volume maps in a blinded reader study

Bruening, R., Berchtenbreiter, C., Holzknrecht, N., Essig, M., Wu, R. H., Simmons, A., Heuck, A., Maschek, A., Meusel, M., Williams, S. C. R., Cox, T., Knopp, M. V. & Reiser, M., 2000, In : *American Journal of Neuroradiology*. 21, 9, p. 1603 - 1610 8 p.

Research output: Contribution to journal › Article

Exploring the social drain in schizophrenia: Left prefrontal underactivation during mental state attribution

Russell, T. A., Rubia, K., Bullmore, E. T., Soni, W., Suckling, J., Brammer, M. J., Simmons, A., Williams, S. C. R. & Sharma, T., 2000, In : *The American Journal of Psychiatry*. 157, 12, p. 2040 - 2042 3 p.

Research output: Contribution to journal › Article

Lexical retrieval during fluent speech production: an fMRI study

Kircher, T. T. J., Brammer, M. J., Williams, S. C. R. & McGuire, P. K., 2000, In : *Neuroreport*. 11, 18, p. 4093 - 4096 4 p.

Research output: Contribution to journal › Article

MR-compatible shields for 511 keV gamma photons: a feasibility study - Electron volt energy 5.11E+05 eV

Strul, D., Cash, D., Keevil, S. F., Halstead, P., Williams, S. C. R. & Marsden, P. K., 2000, *Conference Record (Cat. No.00CH37149)*. Piscataway, NJ, USA: IEEE, p. 11-15

Research output: Chapter in Book/Report/Conference proceeding › Conference paper

Mapping auditory hallucinations in schizophrenia using functional magnetic resonance imaging.[see comment]

Shergill, S. S., Brammer, M. J., Williams, S. C., Murray, R. M. & McGuire, P. K., 2000, In : *Archives of General Psychiatry*. 57, 11, p. 1033 1 p.

Research output: Contribution to journal › Article

Quantitative proton magnetic resonance spectroscopy of the subcortical white matter in motor neuron disease

Ellis, C. M., Simmons, A., Glover, A., Dawson, J. M., Williams, S. C. R. & Leigh, P. N., 2000, In : *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders*. 1, 2, p. 123 - 129 7 p.

Research output: Contribution to journal › Article

Reduced cerebral blood flow in white matter in ischaemic leukoaraiosis demonstrated using quantitative exogenous contrast based perfusion MRI

Markus, H. S., Lythgoe, D., Ostegaard, L., O'Sullivan, M. & Williams, S. C. R., 2000, In : *Journal of Neurology, Neurosurgery and Psychiatry*. 69, 1, p. 48 - 53 6 p.

Research output: Contribution to journal › Article

Silent speechreading in the absence of scanner noise: an event-related fMRI study

MacSweeney, M., Amaro, E., Calvert, G. A., Campbell, R., David, A. S., McGuire, P., Williams, S. C. R., Woll, B. & Brammer, M. J., 2000, In : *Neuroreport*. 11, 8, p. 1729 - 1733 5 p.

Research output: Contribution to journal › Article

The relationship between the apparent diffusion coefficient measured by magnetic resonance imaging, anoxic depolarization, and glutamate efflux during experimental cerebral ischemia

Harris, N. G., Zilkha, G., Houseman, J., Symms, M. R., Obrenovitch, T. P. & Williams, S. R., 2000, In : *Journal of Cerebral Blood Flow and Metabolism*. 20, 1, p. 28 - 36 9 p.

Research output: Contribution to journal › Article

Using fMRI to study recovery from acquired dysphasia

Calvert, G. A., Brammer, M. J., Morris, R. G., Williams, S. C. R., King, N. & Matthews, P. M., 2000, In : *Brain and Language*. 71, 3, p. 391 - 399 9 p.

Research output: Contribution to journal › Article

Distinct hyperintense MRI signal changes in the corticospinal tracts of a patient with motor neuron disease

Ellis, C. M., Simmons, A., Dawson, J. M., Williams, S. C. R. & Leigh, P. N., Dec 1999, In : Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders. 1, 1, p. 41 - 44 4 p.

Research output: Contribution to journal > Article

Conflicting MRI signals from gliosis and neuronal vacuolation in prion diseases

Chung, Y. L., Williams, A., Ritchie, D., Williams, S., Changani, K. K., Hope, J. & Bell, J. D., 26 Nov 1999, In : Neuroreport. 10, 17, p. 3471-3477 7 p.

Research output: Contribution to journal > Article

Differences in frontal cortical activation by a working memory task after substitution of risperidone for typical antipsychotic drugs in patients with schizophrenia

Honey, G. D., Bullmore, E. T., Soni, W., Varatheesan, M., Williams, S. C. R. & Sharma, T., 9 Nov 1999, In : Proceedings of the National Academy of Sciences of the United States of America. 96, 23, p. 13432-13437 6 p.

Research output: Contribution to journal > Article

A differential neural response to threatening and non-threatening negative facial expressions in paranoid and non-paranoid schizophrenics

Phillips, M., Williams, L., Senior, C., Bullmore, E. T., Brammer, M., Andrew, C., Williams, S. & David, A. S., 8 Nov 1999, In : Psychiatry Research. Neuroimaging. 92, 1, p. 11-31 21 p., N/A.

Research output: Contribution to journal > Article

Diffusion tensor MRI assesses corticospinal tract damage in ALS

Ellis, C. M., Simmons, A., Jones, D., Bland, J., Dawson, J. M., Horsfield, M. A., Williams, S. & Leigh, P. N., 22 Sep 1999, In : Neurology. 53, 5, p. 1051-1058 8 p.

Research output: Contribution to journal > Article

Cerebral correlates of preserved cognitive skills in autism - A functional MRI study of Embedded Figures Task performance

Ring, H. A., Baron-Cohen, S., Wheelwright, S., Williams, S., Brammer, M., Andrew, C. & Bullmore, E. T., Jul 1999, In : Brain. 122, 7, p. 1305-1315 11 p.

Research output: Contribution to journal > Article

Non-invasive assessment of axonal fibre connectivity in the human brain via diffusion tensor MRI

Jones, D., Simmons, A., Williams, S. & Horsfield, M. A., Jul 1999, In : Magnetic Resonance in Medicine. 42, 1, p. 37-41 5 p.

Research output: Contribution to journal > Article

Brain bioenergetics in murine models of scrapie using in vivo 31P magnetic resonance spectroscopy

Chung, Y-L., Williams, S. C. R., Hope, J. & Bell, J. D., 23 Jun 1999, In : Neuroreport. 10, 9, p. 1899-1901 3 p., N/A.

Research output: Contribution to journal > Article

Functional magnetic resonance imaging neuroactivation studies in normal subjects and subjects with the narcoleptic syndrome. Actions of modafinil

Ellis, C. M., Monk, C., Simmons, A., Lemmens, G., Williams, S. C. R., Brammer, M., Bullmore, E. & Parkes, J. D., Jun 1999, In : Journal of Sleep Research. 8, 2, p. 85-93 9 p.

Research output: Contribution to journal > Article

Hypofrontality in attention deficit hyperactivity disorder during higher-order motor control: a study with functional MRI

Rubia, K., Overmeyer, S., Taylor, E., Brammer, M., Williams, S., Simmons, A. & Bullmore, E. T., Jun 1999, In : The American Journal of Psychiatry. 156, 6, p. 891-6 6 p.

Research output: Contribution to journal > Article

Quality control for functional magnetic resonance imaging using automated data analysis and Shewhart charting

Simmons, A., Moore, E. & Williams, S. C., Jun 1999, In : Magnetic Resonance in Medicine. 41, 6, p. 1274-1278 5 p.

Research output: Contribution to journal › Article

Social intelligence in the normal and autistic brain: an fMRI study

Baron-Cohen, S., Ring, H. A., Wheelwright, S., Bullmore, E. T., Brammer, M., Simmons, A. & Williams, S., Jun 1999, In : European Journal of Neuroscience. 11, 6, p. 1891-8 8 p.

Research output: Contribution to journal › Article

Attenuated frontal activation in schizophrenia may be task dependent

Curtis, V. A., Bullmore, E. T., Morris, R. G., Brammer, M., Williams, S., Simmons, A., Sharma, T., Murray, R. M. & McGuire, P. K., 4 May 1999, In : Schizophrenia Research. 37, 1, p. 35-44 10 p.

Research output: Contribution to journal › Article

Mapping of cerebrovascular reactivity using bold magnetic resonance imaging

Lythgoe, D., Williams, S., Cullinane, M. & Markus, HS., May 1999, In : Magnetic Resonance Imaging. 17, 4, p. 495-502 8 p.

Research output: Contribution to journal › Article

Characterisation of white matter damage in ischaemic leukoaraiosis with diffusion tensor MRI

Jones, D. K., Lythgoe, D., Horsfield, MA., Simmons, A., Williams, S. & Markus, HS., Feb 1999, In : Stroke. 30, 2, p. 393-397

Research output: Contribution to journal › Article

Functional MRI study of the cognitive generation of affect

Teasdale, J. D., Howard, R. J., Cox, S. G., Ha, Y., Brammer, M. J., Williams, S. C. R. & Checkley, S. A., Feb 1999, In : The American Journal of Psychiatry. 156, 2, p. 209-215 7 p.

Research output: Contribution to journal › Article

Functional MR imaging of confounded hypofrontality

Bullmore, E., Brammer, M., Williams, S. C. R., Curtis, V., McGuire, P., Morris, R., Murray, R. & Sharma, T., 1999, In : Human Brain Mapping. 8, 2-3, p. 86-91 6 p.

Research output: Contribution to journal › Article

Methods for diagnosis and treatment of stimulus-correlated motion in generic brain activation studies using fMRI

Bullmore, E. T., Brammer, M. J., Rabe-Hesketh, S., Curtis, V. A., Morris, R. G., Williams, S. C. R., Sharma, T. & McGuire, P. K., 1999, In : Human Brain Mapping. 7, 1, p. 38-48 11 p.

Research output: Contribution to journal › Article

The application of diffusion tensor MRI to neurological segmentation

Simmons, A., Jones, D. K., Horsfield, M. A. & Williams, S., 1999, In : INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY. 10, 3, p. 273-286

Research output: Contribution to journal › Article

Prefrontal involvement in "temporal bridging" and timing movement

Rubia, K., Overmeyer, S., Taylor, E., Brammer, M., Williams, S., Simmons, A., Andrew, C. & Bullmore, E., 11 Dec 1998, In : Neuropsychologia. 36, 12, p. 1283-1293 11 p.

Research output: Contribution to journal › Article

A differential neural response to stimuli displaying fear and disgust presented in both visual and auditory modalities

Phillips, M. L., Young, A. W., Scott, S., Calder, A. J., Andrew, C., Giampietro, V., Williams, S. C. R., Bullmore, E. T., Brammer, M. & Gray, J. A., 1 Dec 1998, In : NeuroImage. 7, 4 PART II

Research output: Contribution to journal › Article

Prefrontal cortex activation during selective letter generation: An fMRI study

De Zubicaray, G. I., Williams, S. C. R., Wilson, S. J., Brammer, M. J., Bullmore, E. T., Simmons, A., Rose, S. E., Semple, J., Smith, G. A. & Doddrell, D. M., 1 Dec 1998, In : NeuroImage. 7, 4 PART II

Research output: Contribution to journal › Article

Exploring the temporal nature of hemodynamic responses of cortical motor areas using functional MRI

Samuel, M., Williams, S., Leigh, P. N., Simmons, A., Chakraborti, S., Andrew, C. M., Friston, K. J., Goldstein, L. H. & Brooks, D. J., Dec 1998, In : *Neurology*. 51, 6, p. 1567-75 9 p.

Research output: Contribution to journal › Article

The anatomy of conscious vision: an fMRI study of visual hallucinations

Ffytche, D. H., Howard, R. J., Brammer, M. J., David, A., Woodruff, P. & Williams, S., Dec 1998, In : *Nature Neuroscience*. 1, 8, p. 738-742 5 p.

Research output: Contribution to journal › Article

Residual processing of chromatic signals in the absence of a geniculostriate projection

Barbur, J. L., Sahraie, A., Simmons, A., Weiskrantz, L. & Williams, S., Nov 1998, In : *Vision Research*. 35, 21, p. 3347-53

Research output: Contribution to journal › Article

Functional anatomy of calorie fear in anorexia nervosa

Ellison, Z., Foong, J., Howard, R., Bullmore, E., Williams, S. & Treasure, J., 10 Oct 1998, In : *The Lancet*. 352, 9135, p. 1192

Research output: Contribution to journal › Letter

Neural responses to facial and vocal expressions of fear and disgust

Phillips, M., Young, A. W., Scott, S. K., Calder, A. J., Andrew, C., Giampietro, V., Williams, S. C. R., Bullmore, E. T., Brammer, M. & Gray, J. A., 7 Oct 1998, In : *Proceedings - Royal Society. Biological Sciences*. 265, 1408, p. 1809-1817 9 p.

Research output: Contribution to journal › Article

A proton magnetic resonance spectroscopic study in ALS: correlation with clinical findings

Ellis, C. M., Simmons, A., Andrews, C., Dawson, J. M., Williams, S. & Leigh, P. N., Oct 1998, In : *Neurology*. 51, 4, p. 1104-9 6 p.

Research output: Contribution to journal › Article

Investigation of facial recognition memory and happy and sad facial expression perception: an fMRI study

Phillips, M., Bullmore, E. T., Howard, R., Woodruff, P. W., Wright, I. C., Williams, S., Simmons, A., Andrew, C., Brammer, M. & David, A. S., 28 Sep 1998, In : *Psychiatry Research*. 83, 3, p. 127-38 12 p.

Research output: Contribution to journal › Article

Attenuated frontal activation during a verbal fluency task in patients with schizophrenia

Curtis, V. A., Bullmore, E. T., Brammer, M., Wright, I. C., Williams, S., Morris, R. G., Sharma, T. S., Murray, R. M. & McGuire, P. K., Aug 1998, In : *The American Journal of Psychiatry*. 155, 8, p. 1056-1063 8 p., N/A.

Research output: Contribution to journal › Article

Prefrontal Cortex Involvement in Selective Letter Generation: A Functional Magnetic Resonance Imaging Study

de Zubicaray, G. I., Williams, S., Wilson, S. J., Rose, S., Brammer, M., Bullmore, E. T., Simmons, A., Chalk, J. B., Semple, J., Brown, A., Smith, G., Ashton, R. & Doddrell, D. M., Jun 1998, In : *Cortex*. 34, 3, p. 389-401 13 p.

Research output: Contribution to journal › Article

The functional anatomy of imagining and perceiving colour

Howard, R. J., Ffytche, D., Barnes, J., McKeefry, D., Ha, Y., Woodruff, P. W., Bullmore, E. T., Simmons, A., Williams, S., David, A. S. & Brammer, M., 20 Apr 1998, In : *Neuroreport*. 9, 6, p. 1019-23 5 p.

Research output: Contribution to journal › Article

Serial precision of metabolite peak area ratios and water referenced metabolite peak areas in proton MR spectroscopy of the human brain

Simmons, A., Smail, M., Moore, E. & Williams, S., Apr 1998, In : *Magnetic Resonance Imaging*. 16, 3, p. 319-30 12 p.

Research output: Contribution to journal › Article

Cerebroprotective effect of the nitric oxide synthase inhibitors, 1-(2-trifluoromethylphenyl) imidazole and 7-nitro indazole, after transient focal cerebral ischemia in the rat

Escott, K. J., Beech, J. S., Haga, K. K., Williams, S., Meldrum, B. S. & Bath, P. M. W., Mar 1998, In : Journal of Cerebral Blood Flow and Metabolism. 18, 3, p. 281-287 7 p.

Research output: Contribution to journal > Article

Proton spectroscopy in the narcoleptic syndrome. Is there evidence of a brainstem lesion?

Ellis, C. M., Simmons, A., Lemmens, G. M., Williams, S. & Parkes, J. D., Feb 1998, In : Neurology. 50, 2 Suppl 1, p. 23-26

Research output: Contribution to journal > Article

Storage of verbal associations is sufficient to activate the left medial temporal lobe

Mayes, A. R., Gooding, P. A., Hunkin, N. M., Nunn, J. A., Gregory, L. J., Brammer, M. J., Bullmore, E. T., Giampietro, V., Van Eijk, R., Nicholas, A. K. & Williams, S. C. R., 1998, In : Behavioural Neurology. 11, 3, p. 163-172 10 p.

Research output: Contribution to journal > Article

The importance of bias in imaging comparisons

Craggs, M., Simmons, A. & Williams, S., 1998, In : British Journal of Urology. 81, 1, p. 178-9 2 p.

Research output: Contribution to journal > Article

Functional magnetic resonance imaging of the acute effect of intravenous heroin administration on visual activation in long-term heroin addicts: results from a feasibility study

Sell, L. A., Simmons, A., Lemmens, G. M., Williams, S. C., Brammer, M. & Strang, J., 30 Dec 1997, In : Drug and alcohol dependence. 49, 1, p. 55-60 6 p.

Research output: Contribution to journal > Article

A simple FMRI paradigm for mapping the major components of the human motor system

Williams, S. C. R., Simmons, A., Samuel, M., Brammer, M. J., Bullmore, E. T., Goldstein, L. H., Andrew, C. M., Andrews, C., Glover, A., Allin, M. B., Brooks, D. J. & Leigh, P. N., 1 Dec 1997, In : NeuroImage. 5, 4 PART II

Research output: Contribution to journal > Article

An fMRI study of executive function in episodic memory encoding

Mellers, J. D. C., Morris, R. G., Williams, S. C. R., Andrew, C., Nunn, J. A., Gray, J. A., Brammer, M. & Bullmore, E., 1 Dec 1997, In : NeuroImage. 5, 4 PART II

Research output: Contribution to journal > Article

Auditory and visual speech converge in auditory cortex at the phonetic level

Calvert, G. A., Bullmore, E. T., Brammer, M. J., Campbell, R., Williams, S. C. R., McGuire, P. K., Woodruff, P. W. R., Iversen, S. D. & David, A. S., 1 Dec 1997, In : NeuroImage. 5, 4 PART II

Research output: Contribution to journal > Article

Brain systems associated with the encoding and retrieval of facial memory investigated using fMRI

Morris, R. G., Kapur, N., Colbourn, C., Schmeidemann, V., Nunn, J. A., Gray, J. A., Bullmore, E. T., Williams, S. C. R. & Simmons, A., 1 Dec 1997, In : NeuroImage. 5, 4 PART II

Research output: Contribution to journal > Article

fMRI during "unpleasant" odour stimulation: Normative data

Williams, S. C. R., Yousem, D. M., Howard, R. J., Andrew, C., Allin, M., Cox, T. S., Geckle, R. J., Suskind, D., Simmons, A., Bullmore, E., Brammer, M. & Doty, R. L., 1 Dec 1997, In : NeuroImage. 5, 4 PART II

Research output: Contribution to journal > Article

Functional MRI during "pleasant" odour stimulation: Normative data

Simmons, A., Yousem, D. M., Williams, S. C. R., Howard, R. J., Andrew, C., Allin, M., Cox, T. S., Geckle, R. J., Suskind, D., Bullmore, E., Brammer, M. & Doty, R. L., 1 Dec 1997, In : NeuroImage. 5, 4 PART II

Research output: Contribution to journal > Article

Methods for diagnosis and treatment of stimulus correlated motion in generic brain activation studies using fMRI

Bullmore, E. T., Brammer, M. J., Rabe-Hesketh, S., Curtis, V. A., Williams, S. C. R., Sharma, T., Morris, R. G. & McGuire, P. K., 1 Dec 1997, In : *NeuroImage*. 5, 4 PART II

Research output: Contribution to journal > Article

Modulation of cortical language areas by auditory attention in schizophrenia

Woodruff, P. W. R., Blackwood, N., Wright, I., Ha, Y., Shapleske, J., Rossell, S., Brammer, M., Howard, R., David, A. S., Bullmore, E., Williams, S. C. R. & Murray, R. M., 1 Dec 1997, In : *NeuroImage*. 5, 4 PART II

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Single voxel in vivo ¹H-MRS in the frontal lobe of schizophrenic patients

Sigmundsson, T., Maier, M., Toone, B. K., Simmons, A., Williams, S. C. R. & Ron, M. A., 1 Dec 1997, In : *NeuroImage*. 5, 4 PART II

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The left hippocampus is activated by encoding verbal associations

Mayes, A. R., Gooding, P., Gregory, L. J., Hunkin, N. M., Nunn, J. A., Van Eijk, R., Williams, S. C. R., Brammer, M. & Bullmore, E., 1 Dec 1997, In : *NeuroImage*. 5, 4 PART II

Research output: Contribution to journal > Article

Using linguistic context to process sentences

Kuperberg, G. R., McGuire, P. K., Tyler, L. K., Bullmore, E. T., Brammer, M. J., Wright, I. C., Woodruff, P., Lythgoe, D., Williams, S. C. R., Simmons, A. & David, A. S., 1 Dec 1997, In : *NeuroImage*. 5, 4 PART II

Research output: Contribution to journal > Article

Wavelet analysis of periodic and non-periodic experimental designs in functional magnetic resonance imaging of the brain

Brammer, M. J., Wright, I. C., Woodruff, P. W. R., Williams, S. C. R., Simmons, A. & Bullmore, E. T., 1 Dec 1997, In : *NeuroImage*. 5, 4 PART II

Research output: Contribution to journal > Article

Auditory hallucinations and the temporal cortical response to speech in schizophrenia: A functional magnetic resonance imaging study

Woodruff, P. W. R., Wright, I. C., Bullmore, E. T., Brammer, M., Howard, R. J., Williams, S., Shapleske, J., Rossell, S., David, A. S., McGuire, P. K. & Murray, R. M., Dec 1997, In : *The American Journal of Psychiatry*. 154, 12, p. 1676-1682 7 p., N/A.

Research output: Contribution to journal > Article

In vivo proton magnetic resonance spectroscopy in polymyositis and dermatomyositis: a preliminary study

Chung, Y. L., Smith, E. C., Williams, S. C., Wassif, W. S., Salisbury, J. R., Simmons, A., Howlett, D. C. & Scott, D. L., 28 Nov 1997, In : *European Journal of Medical Research*. 2, 11, p. 483-7 5 p.

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A specific neural substrate for perceiving facial expressions of disgust

Phillips, M., Young, A. W., Senior, C., Brammer, M., Andrew, C., Calder, A. J., Bullmore, E. T., Perrett, D. I., Rowland, D., Williams, S., Gray, J. A. & David, A. S., 2 Oct 1997, In : *NATURE*. 389, 6650, p. 495-498 4 p., N/A.

Research output: Contribution to journal > Article

Functional MR imaging during odor stimulation: Preliminary data

Yousem, D. M., Williams, S. C. R., Howard, R. O., Andrew, C., Simmons, A., Allin, M., Geckle, R. J., Suskind, D., Bullmore, E. T., Brammer, M. J. & Doty, R. L., Sep 1997, In : *Radiology*. 204, 3, p. 833-838 6 p.

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Pattern of neuronal activity associated with conscious and unconscious processing of visual signals

Sahraie, A., Weiskrantz, L., Barbur, J. L., Simmons, A., Williams, S. C. & Brammer, M. J., 19 Aug 1997, In : *Proceedings of the National Academy of Sciences of the United States of America*. 94, 17, p. 9406-11 6 p.

Research output: Contribution to journal › Article

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