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Bristol Neuroscience Newsletter

January / February 2015



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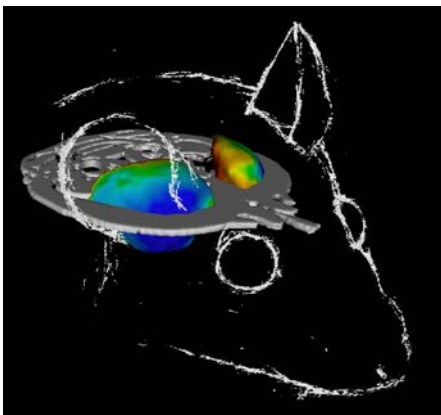
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Neuroscience is a highly dynamic field of research- BN constantly evolves in response to the changing needs and developments of the neuroscience community it serves. Topics as varied as synaptic plasticity, addiction, visual perception and pain are all studied in BN.



We make full use of different techniques and approaches in our quest to understand the nervous system, from studying biochemical pathways to developing neurosurgical techniques, and from electrophysiology to animal behaviour – and everything in between.

EVENTS

[How Prepared are UK Medical Graduates for Practice?](#)

20 February 2015, 14:00, Lecture Theatre C42, Medical Sciences Building

[Call for Speakers for Soapbox Science](#)

23 February 2015 (deadline for applications)

[Sergey Kasparov: Brain is not all about neurones: putting astrocytes on the map](#)

23 February 2015, 13:00, C42, Medical Sciences Building

[RED Medical lunchtime surgery series - Commercialising your research](#)

25 February 2015, 13:00, Life Sciences Building, G14

[Prof. Howard Evans: How cells communicate - the discovery and roles of connexin channels](#)

26 February 2015, 13:00, Ground Floor Lecture Theatre, Dorothy Hodgkin Building

[Translational research in medical sciences: How to get support, advice and funding](#)

4 March 2015, 14:00, G13/G14 Life Sciences Building

[Mark Mon Williams: Cognition matters in health and motor matters in cognitive testing](#)

5 March 2015, 16:00, Room OS6 in Oakfield House

[Dr Gonzalo de Polavieja: Complexity Colloquium: Decision-making in animal groups](#)

10 March 2015, 12:00, Lecture Theatre 1.18, Queen's Building

[RED Medical lunchtime surgery series - Impact: engaging with policy makers](#)

16 March 2015, 13:00, Room OS6, Oakfield House

[Jon Hanley: Watching traffic \(and other exciting things about brain cells\)](#)

16 March 2015, 13:00, C42, Medical Sciences Building

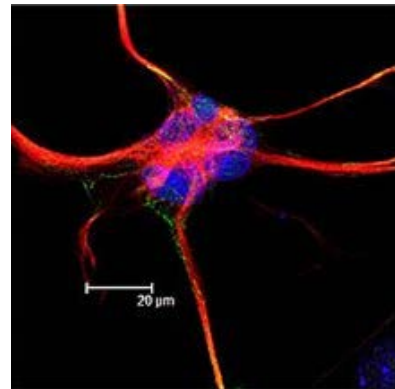
[Brain Awareness Week](#)

16-22 March 2015, Bristol

The organisers are still in need of volunteers- please sign up on the [Google doc](#) if you are able to help

[Nicola Wiles: CoBlaT Update: the long term effectiveness of CBT for treatment-resistant depression](#)

18 March 2015, 12:30, OS6, Oakfield House



[Julia Dickinson: How to get an MRC Fellowship](#)

19 March 2015, 13:00, AIMS Centre (Chemistry Building), Room SR2a/b

[Alicia Hidalgo: Tinkering in nervous system evolution and plasticity: the neurotrophin system in fruit-flies](#)

23 March 2015, 13:00, E29, Medical Sciences Building

[RED Medical lunchtime surgery series - How best to respond to reviewers comments](#)

26 March 2015, 13:00, Medical Sciences Building, room C4

[BNA2015 Festival of Neuroscience: Edinburgh, 12-15 April 2015](#)

12 April 2015, 9:00, Edinburgh International Conference Centre

[Implications of Research on the Neuroscience of Affect, Attachment and Social Cognition Conference](#)

25 April 2015, 8:30, The Cruciform Building, Gower Street, UCL

[Professor Graeme Henderson: The two faces of heroin: medicine and killer](#)

30 April 2015, 18:00, Great Hall, Wills Memorial Building

[Human Brain Anatomy Course](#)

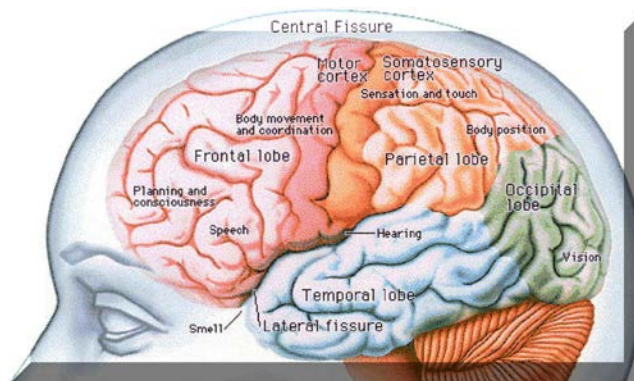
9-11 May 2015, King's College London

[Limbic Brain Anatomy Course](#)

1-2 June 2015, King's College London

[Professor Carol Brayne \(Director, Cambridge Institute of Public Health\): title tbc \(dementia\)](#)

3 June 2015, time and place to be confirmed



[Health Services Research Network Symposium](#)

1-2 July 2015, Nottingham

[Dr Angelica Ronald, GEL Laboratories, Centre for Brain and Cognitive Development, Birbeck, University of London \(title tbc\)](#)

2 July 2015, 16:00, Seminar Room, Second Floor, Oakfield House

[European Synapse Meeting](#)

7-9 September 2015, Bristol

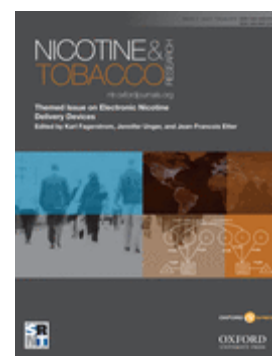
Early Careers Neuroscientist Event

21 September 2015, at-Bristol.

Note the date for your diaries! This a GW4 event, previously held in conjunction with Cardiff under the title “Young Neuroscientist “

NEWS

- Professor [Zaf Bashir](#) will be serving on the Wellcome Trust's Basic Science Interview Committee from October 2014 for three years.
- *ULTRADIAN* EU 2020 Grant: €1,646,521; Professor [Stafford Lightman](#) *et. al.* Abstract: We propose to revolutionise current endocrine diagnostics by replacing conventional, time-consuming single-analyte hormone assays with ambulatory dynamic endocrine diagnostics. Disorders of endocrine systems are not only accompanied by changes in absolute hormone levels, but also secretion patterns. The rapid circadian (24 hour) and ultradian (< 24 hour) cycling of hormone levels poses diagnostic challenges since random measurements do not always detect abnormalities. Furthermore, monitoring of treatment of endocrine diseases are often severely limited by lack of multiple measurements at different time points. To overcome these hurdles academic and commercial partners propose to validate novel dynamic endocrine diagnostics with state-of-the-art ultrasensitive assays by liquid chromatography tandem mass spectroscopy (LCMS/MS) and multiplex proximity extension assays. These will be able to generate a timeline of “hormonomes” covering the 24 hour cycle without losing sensitivity and specificity, producing not only hormone levels, but also secretion patterns for diagnostics and monitoring purposes. *ULTRADIAN* will simplify diagnostics and monitoring of endocrine conditions, economisation of health care, and new products and markets for the European diagnostic sector.
- Oxford Journals welcomed a new Editor-in-Chief in October 2014 for their journal *Nicotine & Tobacco Research*. Professor [Marcus Munafa](#) has already introduced a number of changes (the option for reviewers to waive their anonymity, adoption of another referencing style, for example) and hopes to continue to achieve long-lasting impact through scientific publications.
- Dr [Emma Robinson](#) has been invited to join the editorial board for the *Journal of Psychopharmacology*. The journal provides an essential forum for researchers and practicing clinicians on the effects of drugs on animal and human behavior, and the mechanisms underlying these effects.
- Professor [Stafford Lightman](#), a member of the Laboratories for Integrative Neuroscience and Endocrinology (LINE), has been [announced President of](#)



[the British Neuroscience Association](#) in 2017. Professor Russell Foster, President of the BNA said, “Stafford is both a superb scientist and leader, he will bring energy and enthusiasm to the BNA ensuring that UK neuroscience is promoted at every level. It is also significant that Stafford is a neuroendocrinologist, illustrating that the BNA embraces the entire neuroscience community”.

WELLCOME TRUST FUNDING STRATEGY



The Wellcome Trust has announced a refreshed funding framework; they are now drawing a clearer distinction between strategic and responsive funding.

Strategic funding is available in research areas that they judge to be strategically important, informed by dialogue with Wellcome researchers and the wider community. Applications will be invited, but the funder welcomes the opportunity to discuss research ideas that might fit with their strategic priorities, and that might be suitable for an invitation. Final awards under the current Strategic Awards scheme will be made in July 2015.

Responsive funding, which represents the majority, is divided into five categories that run across their Science, Innovations, Medical Humanities, Society and Ethics, and Engaging Science funding. The five categories are: people, seeds, teams, places and resources.

For further details see the Wellcome Trust [funding pages](#).

FUNDING OPPORTUNITIES

A **calendar** of potential **funding opportunities** for Neurosciences has been set up via Research Professional which details the funding opportunity according to submission deadline for the whole year. This calendar is accessible via their [website](#) and will be updated automatically according to specified search criteria (Personality Disorders, Depression & Other Mood Disorders, Bipolar Disorder, Anxiety Disorders, Alzheimer's Disease & Senile Dementia, Neuroscience, Neurology). Other subjects can be added by request- please email the theme with suggestions and/or comments.

***Research Professional**

Deadlines Calendar << < February 2015 >> >>

Closing dates for all funding opportunities matching your query

Show opportunities on funder deadlines
 Show opportunities days before funder deadlines
 Show opportunities on internal deadlines (where available)

Update calendar

[Subscribe](#) [Download](#) [View as search results](#)

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13 Emergency support - Alzhe Young investigator awards Engagement fellowships - v	14	15 Ataxia grants - Ataxia UK, f Student travel awards - Au International neuroscience Network of European neur
16 #21 more EXTENDED DEADLINE: It Development and applicati Prescription drug abuse (R Women's mental health du Research on autism spect	17	18	19	20	21 SSMIBRO fellowship for y	22
23 NARSAD young investigat Biotechnology grants - Alz H2020-HCO-2015 health c Brain somatic mosaicism a Brain somatic mosaicism a	24	25	26	27 Dissemination grants - Alz	28 Visiting lecturer bursary sc Geoffrey Harris price - Eur Research grants - Internal International bilateral exch Support for short meetings	1 IBRO international travel gr Researcher residency - Br Innovation research grant Small grant scheme - Brit Ingverpriset - Svenska Läk

Subscribing to a calendar will place the entries in your own calendar. The entries will then be automatically updated over time so that you always have the up-to-date list of deadlines in your calendar. Works with campus-based servers like Microsoft Exchange but not cloud-based servers like Google Apps.

Download a calendar file and then import it into your own calendar. These entries will not be automatically updated.

To see and edit the query that defines the opportunities included in the calendar, click the **View as search results** button

Brain & Behavior Research Foundation

[NARSAD young investigator grant](#)

Supports young scientists who are conducting neurobiological research, in order to enable them to extend their research fellowship training or to begin careers as independent research faculty.

Award amount: US\$70,000

Deadline: 24-Feb-15

National Institutes of Health

[Brain somatic mosaicism and its role in psychiatric disorders](#)

Invites applications from multi-disciplinary and synergistic teams of investigators proposing to identify and characterise the full spectrum of somatic variation in human brain samples and to assess the relationship of such variation with the pathophysiology of neuropsychiatric disorders.

Award Amount: not specified

Deadline: 24-Feb-15

Wellcome Trust

[Seed awards in science](#)

The exploratory nature of these gives scope for the use of bold or innovative methodologies, and a broad range of possible activities; from pilot and scoping studies, to preliminary data gathering and proof-of-principle studies, to planning sessions and meetings of collaborative networks.

Award Amount: £100,000

Deadline: 25-Feb-15

Alzheimer's Society

[Dissemination grants](#)

These enable researchers to disseminate the findings of a completed research programme or project relating to the cause, cure, care or prevention of dementia.

Funding Available: £30,000

Deadline: 27-Feb-15

GW4

[Building Communities: Initiator and Accelerator Funds](#)

The call is open to research communities across GW4 and multidisciplinary is encouraged.

Award Amount: £20,000 - £75,000

Deadline: 06-Mar-15

British Medical Association

[Research Grants](#)

Helen H Lawson grant (£50k) on rehabilitation in stroke care may be submitted by registered medical practitioners who are members; Margaret Temple grant (£55k) on schizophrenia; Vera Down grant (£55k) on neurological disorders.

Funding Available: £55,000

Deadline: 09-Mar-15

ERA-NET Neuron

[European Research Projects on Neurodevelopmental Disorders](#)

To facilitate multinational, collaborative research projects that will address important questions relating to the neurodevelopmental nature of neurological and psychiatric disorders. The call will accept proposals ranging from understanding basic mechanisms of disease through proof-of-concept clinical studies in humans.

Funding Available: €2.5M

Deadline: 10-Mar-15

Neurodegenerative Disease Research (JPND)

[JPco-fuND Call for European Research Projects on Neurodegenerative Disease](#)

Aims to find causes, develop cures, and identify appropriate ways to care for those with neurodegenerative diseases. It seeks to establish a number of ambitious, innovative, multi-national and multi-disciplinary collaborative research projects that will add value to JPND priority research areas.

Funding Available: €2.5M

Deadline: 10-Mar-15

European Neuromuscular Centre

[International workshop grants](#)

These aim to encourage and facilitate collaborative research into neuromuscular disease. The ENMC sponsors grants towards the costs of the workshops and will also cover travel costs for one participant per institute, and one local colleague of the chairman.

Funding Available: Not Specified

Deadline: 15-Mar-15

European Research Council

[Advanced Grant](#)

Support individual professorial-level researchers established as leaders in their field, in undertaking ambitious, potentially ground-breaking research projects in any subject area. Proposals to the call will be handled through the University's Major Bids process.

Award Amount: €2.5m

Deadline: 17-Mar-15 @ 12:00 (internal)

National Institute of Mental Health

[BRAIN initiative: planning for next generation human brain imaging](#) (R24)

To support planning activities and the initial stages of development of entirely new or next generation brain imaging technologies and methods that will lead to transformative advances in our understanding of the human brain.

Funding Available: \$900,000

Deadline: 18-Mar-15

National Institute of Mental Health

[BRAIN initiative: development and validation of novel tools to analyse cell-specific and circuit-specific processes in the brain \(U01\)](#)

Aims to develop and validate novel tools to facilitate the detailed analysis of complex circuits and provide insights into cellular interactions that underlie brain function.

Funding Available: not specified Deadline: 18-Mar-15

Alzheimer's Research UK

[Pilot Project Grants](#)

Fund small, innovative research projects and pilot studies that, if successful, can lead to a major project or programme application to ARUK or other funding body. The work should address the causes, cures, prevention, diagnoses and treatments of Alzheimer's disease and related dementias.

Funding Available: £50,000 Deadline: 20-Mar-15

Alzheimer's Research UK

[Network Accelerate Scheme](#)

Provides members of ARUK network centres with funds for research resources or tools that could be of benefit to biomedical dementia research in the network and beyond. This could include the generation and validation of reagents, the maintenance or creation of research resources or scientific networking beyond what could normally be covered by network centre grants.

Funding Available: £250,000 Deadline: 20-Mar-15

Alzheimer's Society

[Project grants](#)

Support research in to the cause, cure, care or prevention of any form of dementia.

Funding Available: £400,000 Deadline: 27-Mar-15

Alzheimer's Society

[PhD studentships](#)

These fund new PhD studentships in the cause, cure, care or prevention of dementia. Funding of up to £85,000 is provided for up to three years and includes a stipend between £15,000 and £16,000 per year, PhD fees at EU rates, consumables and equipment, and conference dissemination support.

Funding Available: £85,000 Deadline: 27-Mar-15

Lord Dowding Fund for Humane Research

[Grants](#)

Support research that replaces the use of animals. Projects in the areas of Parkinson's, Alzheimer's and other dementias are particularly welcome. Financial support is given for a wide range of projects including, for example, pure and applied research in the fields of biology, human and veterinary medicine, toxicology and teaching.

Funding Available: £75,000

Deadline: 01-Apr-15

Action for A-T

[Research Grants](#)

Aim to fund scientific research that will lead to a greater understanding of ataxia telangiectasia and may slow down, halt or reverse its progression, with the ultimate goal of realising a cure.

Funding Available: not specified

Deadline: 03-Apr-15

Medical Research Council

[Senior Clinical Fellowships](#)

Supports outstanding medically and other clinically qualified professionals in their development to become research leaders.

Funding Available: not specified

Deadline: 08-Apr-15

Medical Research Council

[Clinician Scientist Fellowships](#)

Aim to develop outstanding medically and other clinically qualified professionals who have gained a higher research degree or equivalent to establish themselves as independent researchers.

Funding Available: not specified

Deadline: 08-Apr-15

Wellcome Trust

[Research Training Fellowships](#)

Support medical, dental, veterinary or clinical psychology graduates who have little or no research training, but who wish to develop a long-term career in academic medicine.

Funding Available: not specified

Deadline: 10-Apr-15

Google

[Faculty Research Awards](#)

One-year awards structured as unrestricted gifts to universities to support the work of world-class full-time faculty members at top universities around the world. The following topics will be considered:

Computational neuroscience; natural language processing; physical interactions with devices; speech, amongst others.

Funding Available: US\$150,000 Deadline: 15-Apr-15

Wellcome Trust

[Research career development fellowships in basic biomedical science](#)

Enable postdoctoral scientists to become independent research scientists and undertake research; applicants must work across the remits of the following funding streams: cellular, developmental and physiological sciences; genetic and molecular sciences; infection and immunobiology; neuroscience and mental health; population health.

Funding Available: not specified Deadline: 17-Apr-15

Motor Neurone Disease Association

[PhD Studentships](#)

Support the training of a graduate science student in order to achieve the qualification of PhD in a subject of direct relevance to motor neurone disease.

Funding Available: £74,500 plus tuition Deadline: 01-May-15

Alzheimer's Society

[Equipment Grants](#)

Provide funds for scientific equipment, flexibly defined, that would benefit Alzheimer's or dementia research.

Funding Available: £100,000 Deadline: 01-May-15

National Institute of Health

[Biobehavioural and technological interventions to attenuate cognitive decline in individuals with cognitive impairment or dementia \(R01\)](#)

To stimulate clinical research focused on biobehavioral or technological interventions to attenuate cognitive decline in individuals with dementia, cognitive impairment (MCI), or disease- or age-related cognitive decline. There is a particular interest in interventions that can be implemented in community settings by the affected individual, informal caregivers, or others in the community.

Funding Available: not specified Deadline: 25-May-15

Michael J Fox Foundation for Parkinson's Research

[Therapeutic pipeline programme](#)

Supports therapeutic development in Parkinson's disease along the entire preclinical and clinical path. Applicants may request up to two years of funding for preclinical development or up to three years of funding for clinical development.

Funding available: Not specified

Deadline: 27-May-15

Motor Neurone Disease Association__

[Biomedical research project grants](#)

Aimed at understanding the causes of motor neurone disease, elucidating disease mechanisms and facilitating the translation of therapeutic strategies from the laboratory to the clinic.

Funding available: £255,000

Deadline: 30-Oct-15

PUBLICATIONS

Ware, J. J., Davies, N. M. & [Munafò, M. R.](#) (2015). [Importance of national context in the translation of personalised treatments for smoking cessation](#). *The Lancet*. Published online 12 Jan 2015.

[Cuthill, I. C.](#) (2015). [Flower colour: Gloger's rule isn't just for the birds](#). *Nature Plants*. 1(2), p.14013.



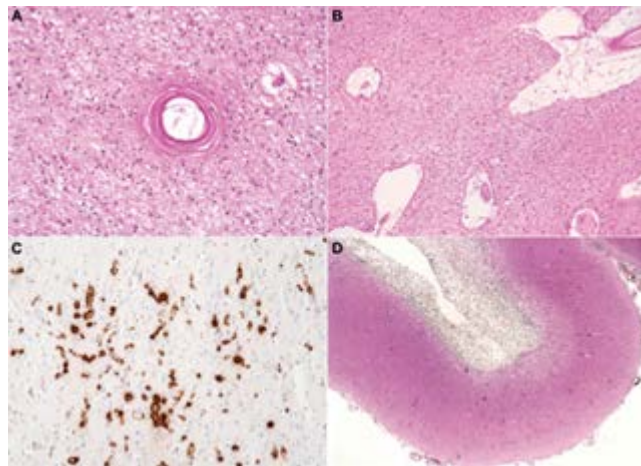
Image caption: *Although similar to the naked eye (left) the upper bloom shows a larger area of dark pigmentation under UV light (right). The flowers come from the extreme north (top) and south (bottom) of New Zealand. COURTESY OF MATTHEW KOSKI.*

Sinclair, L. I., Tayler, H. M. & [Love, S.](#) (2015). [Synaptic protein levels altered in vascular dementia](#). *Neuropathology and Applied Neurobiology*. Published online 5 Jan 2015.

[Love, S.](#) & Esiri, M. M. (2015). [Introduction](#). *Brain Pathology*. 25(1), p. 33-4.

[Love, S.](#) & Miners, J. S. (2015). [White matter hypoperfusion and damage in dementia: post-mortem assessment](#). *Brain Pathology*. 25(1), p. 99-107.

Image caption: *Structural disease of small cerebral blood vessels in dementia*



Stollery, B. T., Christian, L. (2014). [Glucose, relational memory, and the hippocampus.](#) *Psychopharmacology*. Published online 20 Dec 2014.

Jarrold, C. R., Hall, D., Harvey, C. E., Tam, H. H. Y., Towse, J. N. & Zarandi, A. L. (2015). [What can we learn about immediate memory from the development of children's free recall?](#) *The Quarterly Journal of Experimental Psychology*. Published online 8 Dec 2014.

Ashby, E. L., Miners, J. S., Kumar, S., Walter, J., Love, S. & Kehoe, P. G. (2014). [Investigation of A \$\beta\$ phosphorylated at serine 8 \(pA \$\beta\$ \) in Alzheimer's disease, dementia with Lewy bodies and vascular dementia.](#) *Neuropathology and Applied Neurobiology*. Published online 30 Dec 2014.

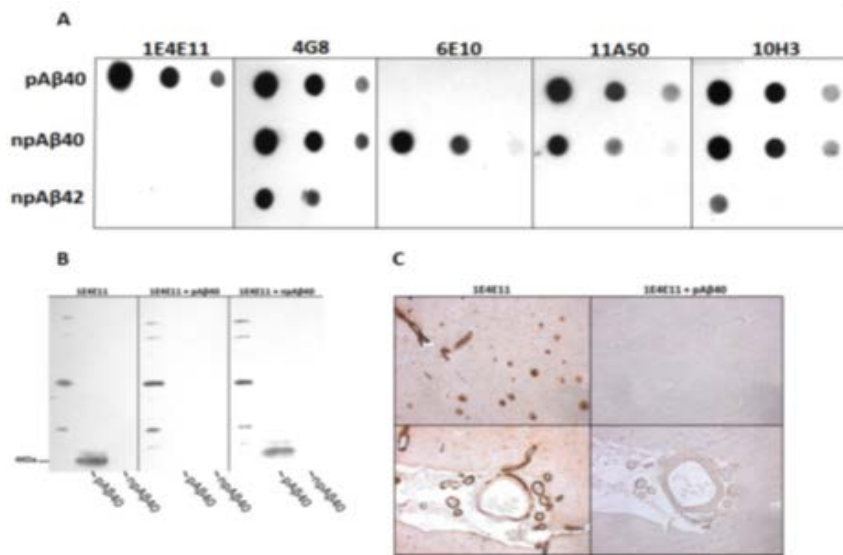


Image caption: Immunohistochemistry of frontal neocortex in sporadic AD (A, B, C), FAD (D, E, F), a control brain (G), DLB (H) and VaD (I), with 1E4E11 (A, B, D, E, G, H, I) and 4G8 (C, F). Comparison of the extent of immunolabelling of adjacent sections with 1E4E11 and 4G8 (B versus C, and E versus F) showed that pA β was demonstrable in a minority of plaques, as well as in the walls of blood vessels. It was detected in sporadic AD and FAD only.

Barnett, J. B. & Cuthill, I. C. (2014). Distance-dependent defensive coloration. *Current biology*. 24, p. R1157-R1158.

Image caption: Monroe-Einstein hybrid-image illusion: high spatial frequencies of Albert Einstein are fused with low spatial frequencies of Marilyn Monroe.

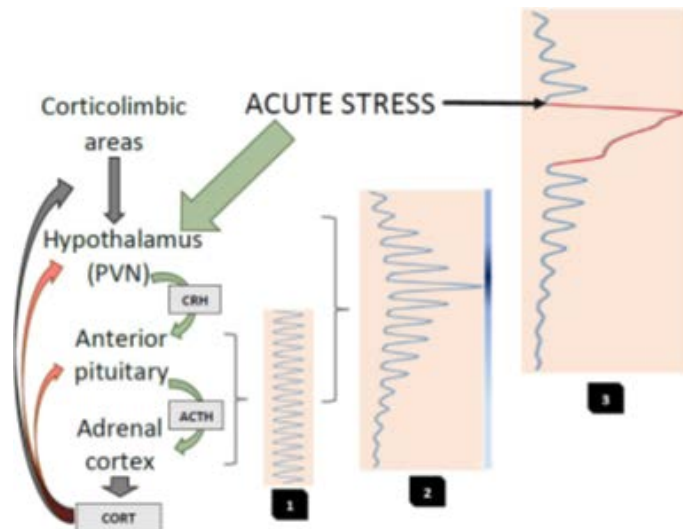


Rubio, M. E., Fukazawa, Y., Kamasawa, N., Clarkson, C., Molnár, E. & Shigemoto, R. (2014). Target- and input-dependent organization of AMPA and NMDA receptors in synaptic connections of the cochlear nucleus. *The Journal of Comparative Neurology*. 522(18), p. 4023-42.

Russell, G. M., Kalafatakis, K. & Lightman, S. L. (2014). The importance of biological oscillators for HPA activity and tissue glucocorticoid response: Coordinating stress and neurobehavioural adaptation. *Journal of neuroendocrinology*.

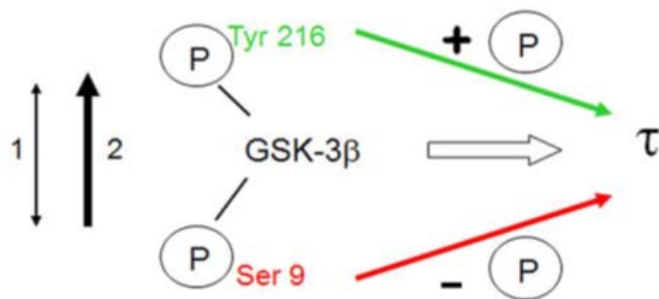
Published online 15 Dec 2014.

Image caption: The principal regulatory mechanisms that underlie hypothalamic-pituitary-adrenal (HPA) activity



Stiby, A. I., Hickman, M., Munafò, M. R., Heron, J., Yip, V. L. & Macleod, J. (2015). Adolescent Cannabis and Tobacco use and Educational Outcomes at Age 16: Birth Cohort Study. *Addiction*. Published online 7 February 2015.

Amin, J., Paquet, C., Baker, A., Asuni, A. A., Love, S., Holmes, C., Hugon, J., Nicoll, J. A. & Boche, D. (accepted). [Effect of A \$\beta\$ immunisation on hyperphosphorylated tau: a potential role for GSK-3 \$\beta\$.](#) *Neuropathology and Applied Neurobiology*. Accessed online 11 February 2015.



1. Healthy brain
2. Alzheimer's brain

Image caption: *Representation of the function of active and inactive GSK-3 β in Alzheimer's disease. GSK-3 β is constitutively active and phosphorylated on tyrosine 216 and phosphorylation on serine 9 inactivates GSK-3 β . The activated form of GSK-3 β phosphorylates tau leading to its pathological accumulation within neurons and interfering with its normal function of stabilising microtubules.*

Jordan, T. M., Partridge, J. C. & Roberts, N. W. (2014). [Disordered animal multilayer reflectors and the localization of light.](#) *Journal of the Royal Society Interface*. 11, 101(13), p.20140948.

Button, K. S., Turner, N., Campbell, J., Kessler, D., Kuyken, W., Lewis, G., Peters, T. J., Thomas, L. & Wiles, N. (2014). [Moderators of response to cognitive behavioural therapy as an adjunct to pharmacotherapy for treatment-resistant depression in primary care.](#) *Journal of Affective Disorders*. 174C, p. 272-280.

Miners, J., Renfrew, R., Swirski, M. & Love, S., (2014). [Accumulation of \$\alpha\$ -synuclein in dementia with Lewy bodies is associated with decline in the \$\alpha\$ -synuclein-degrading enzymes kallikrein-6 and calpain-1.](#) *Acta neuropathologica communications*. 2(1), p. 164.

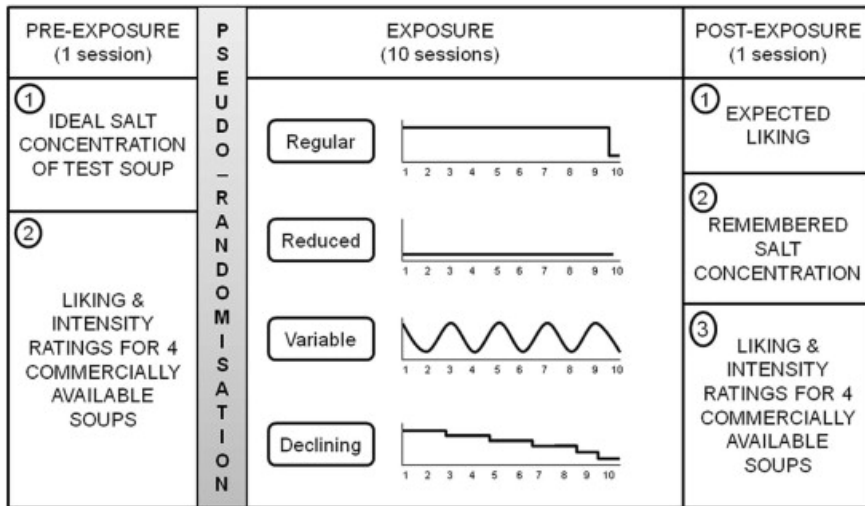
Smith, E. & Jarrold, C. (2014). [Demonstrating the effects of phonological similarity and frequency on item and order memory in Down syndrome using process dissociation.](#) *Journal of Experimental Child Psychology*. 128, p. 69-87.

Gage, S. H., Hickman, M., Heron, J., Munafò, M. R., Lewis, G., Macleod, J. & Zammit, S. (2014). [Associations of cannabis and cigarette use with psychotic experiences at age 18: findings from the Avon Longitudinal Study of Parents and Children.](#) *Psychological Medicine*. 44(16), p. 3435-3444.

Robinson, E., Kersbergen, I., Brunstrom, J. M. & Field, M. [I'm watching you. Awareness that food consumption is being monitored is a demand characteristic in eating-behaviour experiments.](#) *Appetite*. 83, p. 19-25.

Herbert, V., Bertenshaw, E. J., Zandstra, E. H. & Brunstrom, J. M. (2014). [Memory processes in the development of reduced-salt foods](#). *Appetite*. 83, p. 125-34.

Image caption: *The study comprised three separate phases: (1) pre-exposure, (2) exposure and (3) post-exposure.*



The main aim of the pre-exposure session was to measure the ideal salt concentration of the soup. Following this, randomisation and allocation to experimental condition took place. During the exposure phase, participants were required to attend the laboratory on 10 separate occasions. In each session they consumed 200 ml of vegetable soup. In the first nine sessions, the salt concentration of the soup was determined by one of four different exposure patterns: 'reduced salt' – reduced-salt soup

(0.4 g/100 ml), 'regular salt' – a typical salt-containing soup (0.66 g/100 ml), 'variable salt' – a regular and reduced-salt soup, alternating in sessions 1–9, and 'declining salt' – a soup declining gradually in salt concentrations in sessions 1–9 (0.66 g/100 ml–0.4 g/100 ml in six steps). In the final exposure session (session 10), all participants were given the same reduced-salt soup (the target soup). The post-exposure session was then conducted 1 day later. In this session, memory for the taste of the target soup was evaluated.

Munafò, M. R. & Flint, J. (2014). [The genetic architecture of psychophysiological phenotypes](#). *Psychophysiology*. 51(12), p. 1331-2.

Paquet, C., Amin, J., Mouton-Liger, F., Nasser, M., [Love, S.](#), Gray, F., Pickering, R. M., Nicoll, J. A., Holmes, C., Hugon, J. & Boche, D. (2015). [Effect of active A \$\beta\$ immunotherapy on neurons in human Alzheimer's disease](#). *Journal of Pathology*. Published online 7 January 2015.

Nicholls, S. M., Copland, D. A., Vitova, A., Kuffova, L., Forrester, J. V. & [Dick, A. D.](#) (2014). [Local targeting of the CD200-CD200R axis does not promote corneal graft survival](#). *Experimental Eye Research*. 130C, p. 1-8.

Hulse, R. P., Beazley-Long, N., Hua, J., [Kennedy, H.](#) et. al, (2014). [Regulation of alternative VEGF-A mRNA splicing is a therapeutic target for analgesia](#). *Neurobiology of Disease*. 71, p. 245-259.

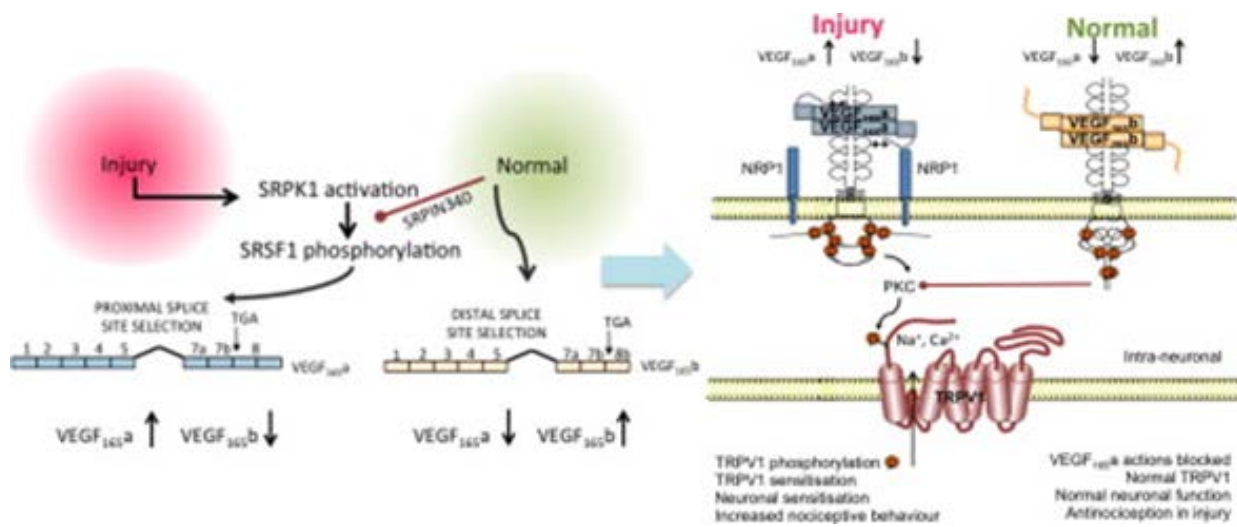


Image caption: VEGF-A, vascular endothelial growth factor-A; SRPK1, serine arginine protein kinase 1; SRSF1, serine arginine splice factor 1; VEGFR2, vascular endothelial growth factor receptor 2; IB4, isolectin B4; TRPV1, transient receptor potential vanilloid 1; CV, conduction velocity; PSNI, partial saphenous nerve ligation injury; DRG, dorsal root gangli.