

BNA2015

Festival of Neuroscience

Edinburgh International Conference Centre
12-15 April 2015

Onsite Guide

British Neuroscience Association
bna.org.uk

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Message from the BNA President



Professor Russell G. Foster CBE DSc FSB FMedSci FRS
Head, Nuffield Laboratory of Ophthalmology
Director, Sleep and Circadian Neuroscience Institute
Fellow, Brasenose College
University of Oxford

Dear Delegate

Welcome to the BNA2015: Festival of Neuroscience!

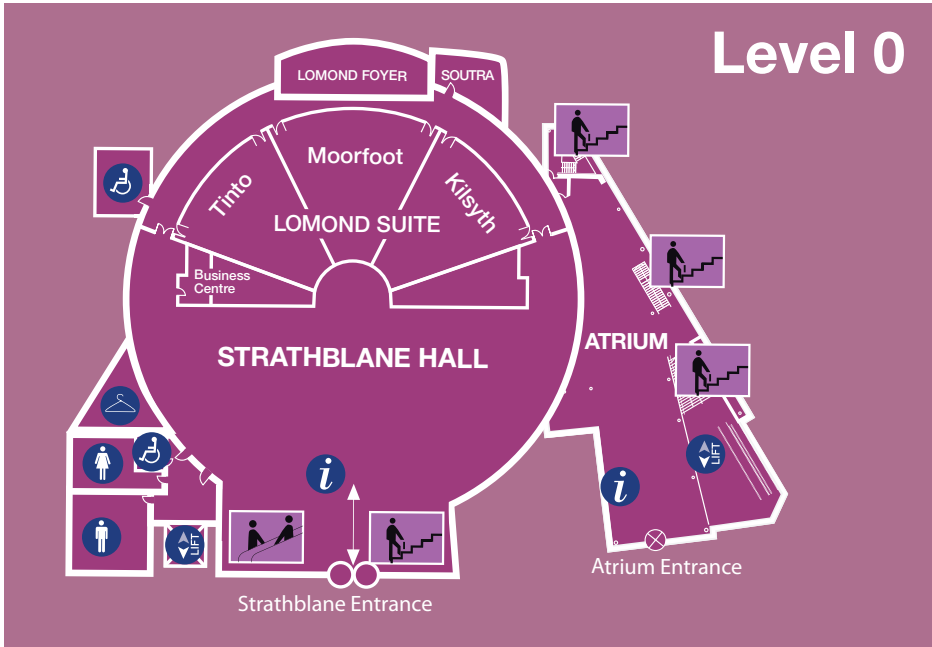
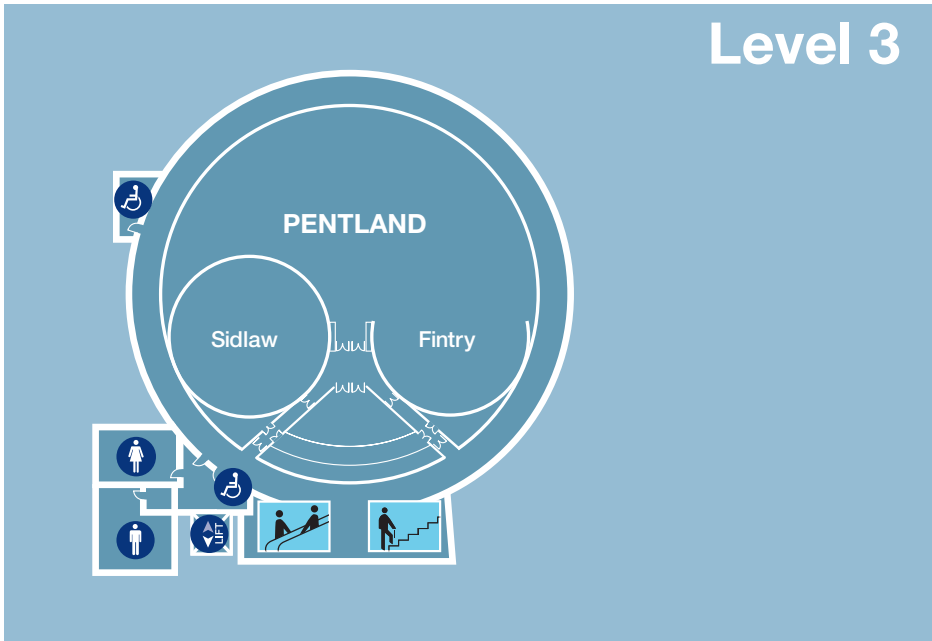
I hope your Festival experience will be both exciting and rewarding. Registration for the meeting has exceeded all expectations, driven by the outstanding programme compiled by Professor Narender Ramnani and his Programme Committee. There will be over 250 speakers; and two Nobel Prize winners will join us at the Festival. Professor Susumu Tonegawa will deliver a plenary lecture, and Professor John O’Keefe, a former President of the BNA, will present a joint BNA 50th Anniversary Lecture and the 2015 Wolstencroft Memorial Award Lecture. We have well over 700 abstracts in three separate poster sessions. In addition there will be many special events, so please check for updates. I would like to thank the terrific support we have had from our partner societies and generous sponsors.

Very significantly 2015 is also the year we celebrate our first 50 years as a society. The consensus is that we started life in 1965, originally as the London Black Horse Group and then as the Brain Research Association (BRA). Convivial meetings by our founders were held in the Black Horse pub in Rathbone Place, off Oxford Street, London, which I am informed, continues to provide a good place for a pint! Like today, the activities of the BRA promoted neuroscience across the UK, conferences and workshops were organised, members of the BRA acted as an effective lobby group, and education about brain science was developed and promoted at every level. An important area, then as now, and stimulated by Professor Steven Rose, was the ethical and social implications of the emerging new field of brain science. In 1996, the BRA was renamed the British Neuroscience Association, reflecting the use of the term “neuroscience” in the language of both scientific and popular cultures, and anticipating the designation of the 21st century as “the century of neuroscience”. To our founders – we thank and salute you!

In our Golden Jubilee year, and building upon the success of the 2013 Festival of Neuroscience at the Barbican in London, I am immensely proud that the BNA will have our second Festival of Neuroscience in Edinburgh. I welcome you once again with my warmest best wishes.

A handwritten signature in black ink, appearing to read 'R. G. Foster', with a large, sweeping flourish extending to the right.

Russell Foster
BNA President





Posters

Theme	Sunday 12th April	Monday 13th April	Tuesday 14th April
A Development	P1-A-001 to P1-A-020	P2-A-001 to P2-A-020	P3-A-001 to P3-A-021
B Molecular, Cellular and Synaptic Mechanisms	P1-B-001 to P1-B-043	P2-B-001 to P2-B-043	P3-B-001 to P3-B-043
C Sensory and Motor Systems	P1-C-001 to P1-C-031	P2-C-001 to P2-C-031	P3-C-001 to P3-C-030
D Learning, Memory and Cognition	P1-D-001 to P1-D-062	P2-D-001 to P2-D-061	P3-D-001 to P3-D-060
E Sleep, Circadian and Neuroendocrine Mechanisms		P2-E-001 to P2-E-017	P3-E-001 to P3-E-017
F Nervous System Disorders	P1-F-001 to P1-F-058	P2-F-001 to P2-F-058	P3-F-001 to P3-F-058
G Methods and Techniques	P1-G-001 to P1-G-015	P2-G-001 to P2-G-014	P3-G-001 to P3-G-014
H Autonomic Nervous System	P1-H-001 to P1-H-006		

Delegates can view posters in the Lennox Suite at the following times:

- Sunday 12 April 2015: 10.45 – 19.30
- Monday 13 April 2015: 10.30 – 17.45
- Tuesday 14 April 2015: 10.30 – 17.15

Posters will be presented by authors at the following times:

Sunday 12 April 2015:

- Odd poster numbers: 14.30 – 15.15
- Even poster number: 15.15 – 16.00

Monday 13 April 2015:

- Odd poster numbers: 13.15 – 14.00
- Even poster numbers: 14.00 – 14.45

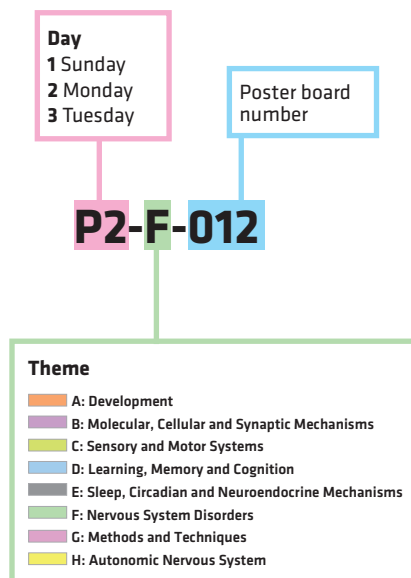
Tuesday 14 April 2015:

- Odd poster numbers: 13.15 – 14.00
- Even poster numbers: 14.00 – 14.45

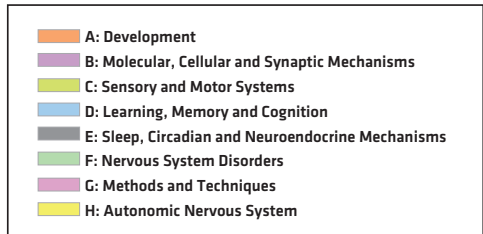
Please note, posters need to be displayed at the following times:

Sunday 12 April 2015	Up by 10.45	Down by 19.30
Monday 13 April 2015	Up by 10.30	Down by 17.45
Tuesday 14 April 2015	Up by 10.30	Down by 17.15

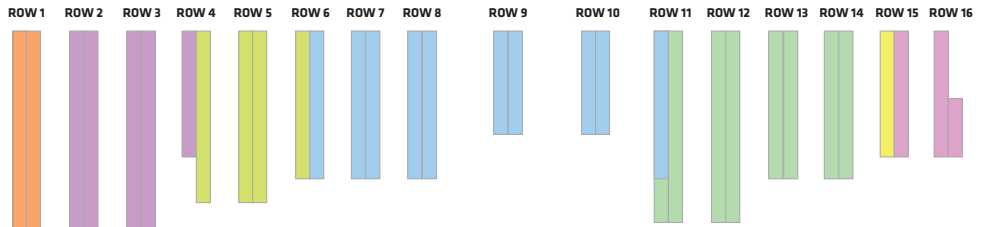
Poster reference explanation



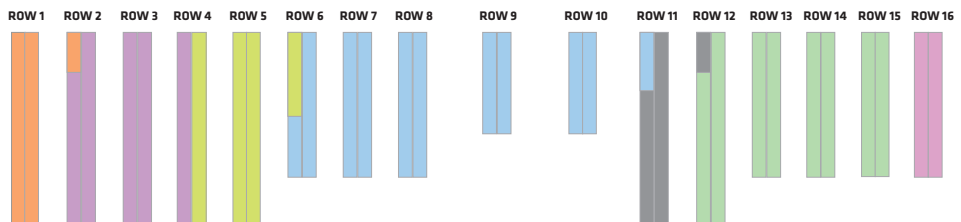
Poster Plans



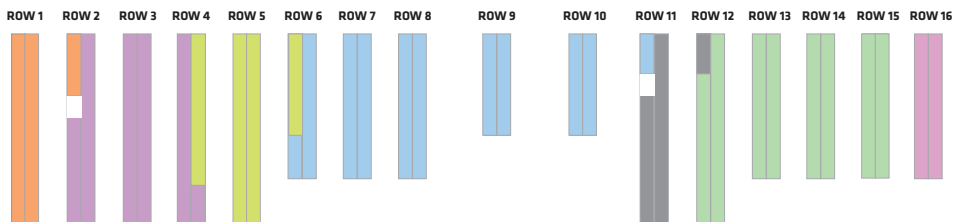
Day 1 Sunday 12th April

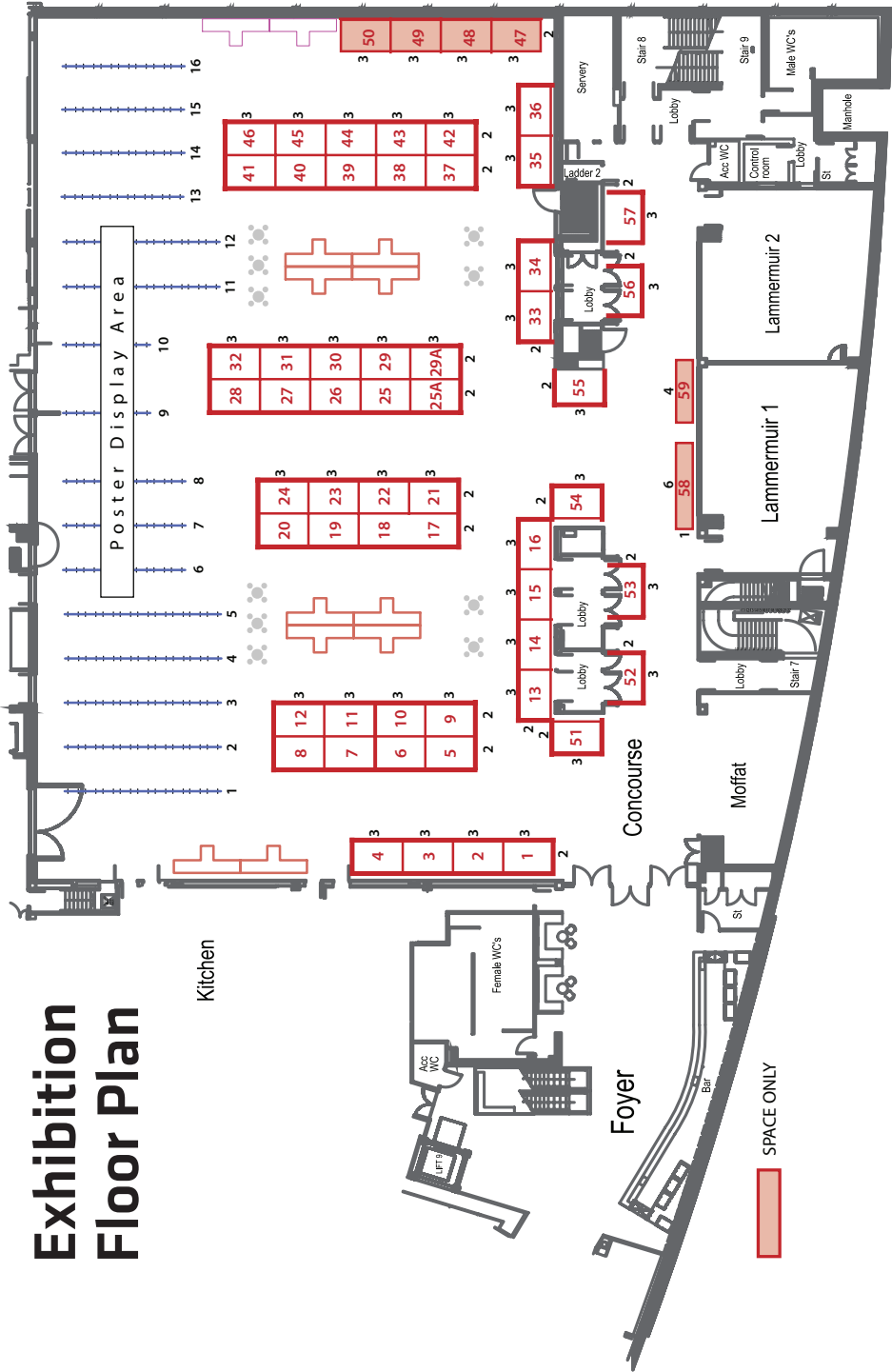


Day 2 Monday 13th April



Day 3 Tuesday 14th April





Exhibition Floor Plan

SPACE ONLY

List of Exhibitors by Stand Number

Stand	Organisation	Stand	Organisation	Stand	Organisation
1	Clever Sys Inc	16	World Precision Instruments	45	Cambridge Bioscience
2	Ectrom/MagVenture	17 & 18	Lafayette Campden Neuroscience	46	ViewPoint S.A.
3	Laser 2000 UK Ltd	19	Millar, Inc	47	Federation of European Neuroscience Societies (FENS)
4	Blackrock Microsystems Europe	20	Hello Bio	48	Brain Vision UK Ltd
5	Thorlabs Ltd	21	Biochemical Society	51	Sable Systems International
6	Linton Instrumentation	22	The Physiological Society	52	Abcam
7	The Magstim Company Ltd	23	Source BioScience	53	Alzheimer's Research UK
8	Bachem AG	24	Prior Scientific	54	British Pharmacological Society (BPS)
9	Digitimer Ltd	25	Routledge, Taylor & Francis Group	55	British Neuroscience Association (BNA)
10	ADInstruments Ltd	25a	bio-techne	56	Lonza Cologne GmbH
11	Olympus	26	General Medicine Group	57	MRC and The Wellcome Trust Careers Stand
12	Noldus Information Technology	27	Behavioural Neuroscience Core Facility (BNCF)	58	Wiley-Blackwell Medical Bookshop
13	Cell Signaling Technology	28	Axol Bioscience Ltd	59	The MIT Press
14	PhenoSys GmbH	29	Enzo Life Sciences		
15	Rogue Resolutions	29a	Harvard Apparatus		
		30	Labtech International Ltd		
		31	Delta Surgical Ltd		
		32	UGO BASILE S.R.L.		
		33	Neurotar Oy Ltd		
		34	Siemens		
		35	Cellular Dynamics International		
		36	Plexon		
		37	LI-COR Biosciences		
		38	Scientifica Ltd		
		39	Miltenyi Biotec Ltd		
		40	Cambridge Electronic Design Ltd		
		41	Carl Zeiss Ltd		
		42	MR Solutions		
		43	Society for Neuroscience		
		44	Leica Microsystems		

Sunday 12th April 2015

	Pentland	Sidlaw	Fintry	Lowther	Menteith	Lammermuir 1	Lammermuir 2
09.30-09.45	Welcome: Prof Russell Foster (BNA President) Opening remarks: Dr John Williams (Wellcome Trust)						
09.45-10.45	Plenary Lecture 1: Prof Susumu Tonegawa, MIT, USA Nobel Laureate for Physiology or Medicine 1987 Memory engram cells have come of age						
10.45-11.30	Refreshments & Trade Exhibition Viewing (Lennox Suite)						
11.30-13.30	Symposium 1: The role of synapses in neuro-degenerative diseases	Symposium 2: The immune system and the brain	Symposium 3: The utility of biomarkers in CNS drug development	Symposium 4: Brain cannabinoid system: a new frontier in brain repair	Symposium 5: Intravital optical imaging: to super-resolution	Symposium 6: The social life of voices	Symposium 7: Fats are fitting for brain disease, but how do they work?
13.30-14.30	Lunch (cash lunch – Lennox Suite)						
13.45-14.30	ASCUS Artists are Present						
14.30-16.00	Poster Session 1 (Lennox Suite)						

	Pentland	Sidlaw	Fintry	Lowther	Menteith	Lammermuir 1	Lammermuir 2
16.00-18.00	Special Event 1: The Human Brain Project: relevance to UK neuroscience	Symposium 8: Learning from LTP	Symposium 9: Brain repair: from fish to human	Symposium 10: Gene therapy for CNS disorders	Special Event 3: Fat and stressed out, always late, but still in love: A workshop in neuro-endocrinology	Symposium 11: Dynamics of brain responses to faces	Special Event 2: Challenges and progress from the first calls of the EU Innovative Medicines Initiative
18.00-19.00				Special Event 4: Open Access: Panel Debate (Chair, Dr Philip Campbell, Editor in Chief Nature)			
19.00-19.30							
20.00-21.15	Public Lecture 1: Prof David J Nutt, Imperial College London, UK Why Scotland should lead the neuroscientific enlightenment? In association with the Edinburgh International Science Festival and EICC InnovationNation						

19.00-20.00 – WELCOME RECEPTION: held in the Lennox Suite

Monday 13th April 2015

	Pentland	Sidlaw	Fintry	Lowther	Menteith	Lammermuir 1	Lammermuir 2
08.30-10.30	Symposium 12: The cell biology of neurogenesis	Symposium 13: Synaptopathy: the new field of synaptic medicine	Special Event 5: Drugs, addiction and free will: do addicted individuals have free will?	Symposium 14: Closing the loop: brain-computer interfaces and neurofeedback	Symposium 15: Sleep, circadian rhythms and the neuroendocrine system	Symposium 16: Reconsolidation, extinction, and the space in between	Symposium 17: Knowing where you are: circuit mechanisms for estimating location
10.30-11.15	Refreshments & Trade Exhibition Viewing (Lennox Suite)						
10.45-11.30	Speed Dating for Careers in Science Session 1 (Platform 5 Café)						
11.15-12.15	Plenary Lecture 2: Prof Dame Kay E Davies, University of Oxford, UK Role of oxidative stress in neurodegeneration						
12.15-13.15	Lunch (cash lunch - Lennox Suite)						
12.30-13.15					Cellidh Workshop		
13.15-14.45	Poster Session 2 (Lennox Suite)						

	Pentland	Sidlaw	Fintry	Lowther	Menteith	Lammermuir 1	Lammermuir 2
14.45-16.45	Symposium 18: Human stem cell models of neuro-degenerative disease	Symposium 19: Psychodelic neuroscience - can understanding brain mechanisms guide new treatments?	Special Event 6: Neuroimaging analysis methods	Symposium 20: Mind wandering, ADHD and the brain	Special Event 7: Effective grantsmanship and funding opportunities	Symposium 21: Holding it together: membrane interactions underlying the health and well-being of neuronal cell biology	Symposium 22: The pedunculo-pontine nucleus - a new target for deep brain stimulation in Parkinson's disease
16.45-17.45	Refreshments 6 Viewing (Lennox Suite) Speed Dating for Careers in Science Session 2 (Platform 5 Café)						
17.00-17.45				<i>The Organisers regret that Special Event 8 has been cancelled.</i>			
18.15-19.15	Plenary Lecture 3: Prof Giacomo Rizzolatti, University of Parma, Italy Understanding others: a neural mechanism						

20.00 until late - STUDENT SOCIAL EVENT, Teviot Row House Debating Hall (offsite, by ticket only, sold out)

Tuesday 14th April 2015

	Pentland	Sidlaw	Fintry	Lowther	Menteith	Lammermuir 1	Lammermuir 2
08.30-10.30	Symposium 23: Frontal lobe mechanisms of behavioural change	Symposium 24: Normal ageing: Alzheimer's disease risk factor number one	Symposium 25: Modelling human disease in a dish: implications for understanding neuro-degeneration and for development of novel therapies	Symposium 26: Sex differences in synaptic plasticity and memory	Symposium 27: Cannabinoids in psychiatric neuroscience: medicine or menace?	Symposium 28: What can cognitive neuroscience tell us about development?	Symposium 29: Neuroimaging and quantitative sensory testing: a new approach to translational pain studies in humans
10.30-11.15	Refreshments & Trade Exhibition Viewing (Lennox Suite) Speed Dating for Careers in Science Session 3 (Platform 5 Café)						
11.15-12.15	Plenary Lecture 4: Prof Lorraine Tyler, University of Cambridge, UK From perception to conception: the evolution of meaning along the ventral stream						
12.15-13.15	BNA AGM Lunch (cash lunch, Lennox Suite)						
13.15-14.45	Poster Session 3 (Lennox Suite)						

	Pentland	Sidlaw	Fintry	Lowther	Menteith	Lammermuir 1	Lammermuir 2
14.45-16.45	Symposium 30: Molecular mechanisms of neuro-degeneration and regeneration	Symposium 31: Cholinergic neuro-modulation in the CNS: from single cells to networks	Symposium 32: Neural mechanisms underlying emotion regulation and dysregulation	Symposium 33: Mechanisms of reward-seeking	Symposium 34: Beyond BOLD: advances in quantitative functional and metabolic imaging	Symposium 35: Metabolic and vascular contributors to dementia	Symposium 36: The neuro-immunology of stroke: inflammation, immuno-suppression, infection and injury
16.45-17.15	Refreshments & Trade Exhibition Viewing (Lennox Suite) Speed Dating for Careers in Science Session 4 (Platform 5 Café)						
17.15-18.15	Plenary Lecture 5: Prof Thomas M Jessell, Columbia University, USA Strategies and circuits for motor control						
18.15-19.00							
19.00-20.15	Public Lecture 2: Dr Adrian Owen, University of Western Ontario, Canada The search for consciousness: detecting awareness in the vegetative state In association with the Edinburgh International Science Festival and EICC InnovationNation						

Wednesday 15th April 2015

	Pentland	Sidlaw	Fintry	Lowther	Menteith	Lammermuir 1	Lammermuir 2
08.30-10.30	Symposium 37: Memory consolidation: an interdisciplinary approach	Symposium 38: Microglia and neuronal function	Symposium 39: Molecular mechanisms of neuro-development and links to later-life neurological disorders	Symposium 40: Sleep, brain state and sensory processing	Symposium 41: Non-invasive brain stimulation: from neuro-enhancement to neuro-rehabilitation	Symposium 42: Complex genetics of neuro-degeneration	Symposium 43: Enabling novel research in neuroscience through microfluidics
10.30-11.00	Refreshments (Lennox Suite)						
11.00-11.55	Plenary Lecture 6: Prof Annette C Dolphin, University College London, UK Neuronal voltage-gated calcium channels: from channel trafficking to therapy for neuropathic pain						
11.55-12.30	Lunch (cash lunch, Lennox Suite)						
12.30-13.25	BNA 50th Anniversary Lecture and The 2015 Wolfsoncroft Memorial Award Lecture: Prof John O'Keefe, University College London, UK Nobel Laureate for Physiology or Medicine 2014 The Journey to the Hippocampal Cognitive Map						

	Pentland	Sidlaw	Fintry	Lowther	Menteith	Lammermuir 1	Lammermuir 2
13.25-14.00	Refreshments (Lennox Suite)						
14.00-16.00	Symposium 44: Role of a novel type of synaptogenesis in memory formation	Symposium 45: Teasing out the mechanisms of depression	Symposium 46: Exploring axonal development and connectivity	Symposium 47: Long term consequences of poor sleep on the brain	Symposium 48: Metacognition and self-awareness	Symposium 49: Thinking of multiple sclerosis neuro-degenerative pathology in a regenerative way	Symposium 50: Action and cognition in the human cortico-cerebellar system
16.00-16.30	Break						
16.30-16.40	Poster Awards						
16.40-17.40	Plenary Lecture 7: Prof Richard G M Morris, University of Edinburgh, UK The making, keeping and losing of memory						
17.40-17.45	Closing remarks: Prof John Aggleton (BNA President)						

Additional Programme Information

Saturday 11th April 2015

Registration	14.00 – 18.00
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Sunday 12th April 2015

Registration	07.45 – 19.00 in Atrium
Speaker Preview	08.00 – 18.00 in Moffat Room
Press	08.00 – 18.00 in Organisers' Office
Exhibition	10.45 – 20.00 in Lennox Suite
Brain Quest	10.45 – 20.00 in Lennox Suite
Poster Viewing	10.45 – 19.30 in Lennox Suite
Poster Session 1	14.30 – 16.00 in Lennox Suite
ASCUS Art & Science - "Artists are Present"	13.45 – 14.30 in Lammermuir 2
Refreshments	10.45 – 11.30 in Lennox Suite
Lunch (cash lunch)	13.30 – 14.30 in Lennox Suite
Reception	19.00 – 20.00 – in Lennox Suite

Monday 13th April 2015

Registration	07.45 – 18.00 in Atrium
Speaker Preview	08.00 – 18.00 in Moffat Room
Press	08.00 – 17.30 in Organisers' Office
Exhibition	08.30 – 17.45 in Lennox Suite
Brain Quest	08.30 – 17.45 in Lennox Suite
Poster Viewing	10.30 – 17.45 in Lennox Suite
Poster Session 2	13.15 – 14.45 in Lennox Suite
Celliadh Workshop	12.30 – 13.15 in Menteith
Refreshments	10.30 – 11.15 & 16.45 – 17.45 in Lennox Suite
Lunch (cash lunch)	12.15 – 13.15 in Lennox Suite

EICC Wi-Fi

Username: **Delegate**; Password: **Exchange**

The Wi-Fi is open to all attendees, and it is recommended that its use is limited to general activities such as checking of emails.

Tuesday 14th April 2015

Registration	07.45 – 18.15 in Atrium
Speaker Preview	08.00 – 18.00 in Moffat Room
Press	08.00 – 17.00 in Organisers' Office
Exhibition	08.30 – 17.15 in Lennox Suite
Brain Quest	08.30 – 11.00 in Lennox Suite
Brain Quest draw	11.30 – 12.15 BNA stand, Lennox Suite
Brain Quest collection of prizes	14.30 – 17.15 Exhibitor stands, Lennox Suite
Poster Viewing	10.30 – 17.15 in Lennox Suite
Poster Session 3	13.15 – 14.45 in Lennox Suite
BNA AGM	12.15 – 13.15 in Pentland
Refreshments	10.30 – 11.15 & 16.45 – 17.15 in Lennox Suite
Lunch (cash lunch)	12.15 – 13.15 in Lennox Suite

Wednesday 15th April 2015

Registration	07.45 – 16.30 in Atrium
Speaker Preview	08.00 – 16.40 in Moffat Room
Press	08.00 – 16.30 in Organisers' Office
Refreshments	10.30 – 11.00 & 13.25 – 14.00 in Lennox Suite
Lunch (cash lunch)	11.55 – 12.30 in Lennox Suite

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