

4th UK-Korea Neuroscience Symposium

9-10 Feb 2011

NEUROSCIENCE and NEURONAL DISEASE

Bristol, United Kingdom

Organisers: Kei Cho (Bristol, UK), Graham Collingridge (Bristol, UK) and Kyungjin Kim (Seoul, Korea)



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치료기술개발연구사업단



Scientific Programme

9-Feb

Radisson Blu Hotel Bristol, Broad Quay, Bristol BS1 4BY

08:30 Coffee and Registration

08:50 Welcome address (Kei Cho / Graham Collingridge)

Genes and Synaptic Molecules and Neuron (Chair: Graham Collingridge)

09:00 **Nina Balthasar** (Univ of Bristol)

The CREB co-activator CRTC2 links hypothalamic glucose-sensing with appropriate gene transcription and ultimately metabolic state regulation

09:15 **Haeyoung Suh-Kim** (Ajou Univ)

Differential regulation of the nestin gene in the developing cortex by proneural bHLH transcription factors

09:30 **Jon Hanley** (Univ of Bristol)

The role of PICK1 in synaptic regulation

09:45 **Eunhye Joe** (Ajou Univ)

Parkinson's disease-related genes in glia function

10:00 **Elek Molnár** (Univ of Bristol)

Mapping the ligand binding sites of kainate receptors

10:15 **Jaesang Kim** (Ewha Womans Univ)

Sox2-Sox6 axis regulates neuronal differentiation

10:30 Coffee

New Concepts of Neuroscience (Chair: Tim Bliss)

11:00 **Yoonkey Nam** (KAIST)

Neuron-on-a-chip application of soft-lithographic technique to design neural circuits *in vitro*

11:15 **Nigel Emptage** (Univ of Oxford)

Dendritic spines: A new look at their role in excitatory transmission

11:30 **Young-Don Son** (Gachon Univ)

Potential use of PET-MRI fusion system in the neuroscience studies

11:45 **Zoltán Molnár** (Univ of Oxford)

The formation of the earliest cortical circuits

12:00 **Jongwoo Lee** (Sogang Univ)

Drosophila arf72A acts as a key regulator at the ER quality checkpoint and suppresses retinopathy caused by ER stress

12:15 **Kei Cho** (Univ of Bristol)

The role of stress and glucocorticoid in long-term potentiation

Networking Round Table meeting: Lunch

Group 1 (Synaptic Molecules and Neuron and Drug Development)

Group 2 (New Concepts of Neuroscience)

Group 3 (Integrative Neuroscience)

Integrative Neuroscience (Chair: Haeyoung Suh-Kim)

13:45 **Kyungjin Kim** (Seoul National Univ)

Adrenal peripheral clock of glucocorticoid

14:00 **Stafford Lightman** (Univ of Bristol)

The importance of glucocorticoid ultradian rhythms

14:15 **Ja-Hyun Baik** (Korea Univ)

Dysregulation of addictive behaviors and plasticity upon chronic stress in mice lacking dopamine D2 receptors

14:30 **Hans Reul** (Univ of Bristol)

Signalling and epigenetic mechanisms in memory formation

- 14:45 **Joonho Choe** (KAIST)
A novel gene of circadian rhythm in *Drosophila*
- 15:00 **Matt Jones** (Univ of Bristol)
Schizophrenic sleep
- 15:15 Coffee

Neurodegeneration and Drug Development (Chair: Sunghoe Chang)

- 16:00 **Ceri Davies** (GSK, UK)
Learning to develop new treatments for Alzheimer's Disease - Insights from Recent Clinical Studies
- 16:15 **Yong-Keun Jung** (Seoul National Univ)
Neuronal mediator(s) of amyloid neurotoxicity and memory impairment
- 16:30 **Jack Mellor** (Univ of Bristol)
Facilitation of hippocampal LTP by muscarinic receptors
- 16:45 **Jae Young Seong** (Korea Univ)
GPR92 antagonists as potential pain therapeutics
- 17:00 **John Wood** (University College London; Seoul National Univ)
Sensory neuron subsets defined by sodium channel expression evoke modality-specific sensation

18:30 **Symposium Dinner: Radisson Blu Hotel**

10-Feb Korea-UK collaboration in Neuroscience

- 09:00 Three group networking roundtable meeting
- Cellular/Molecular Neuroscience (Discussion Leader: T. Bliss / G. Collingridge)
Disease and drug development (Discussion Leader: C. Davies / J. Wood)
Integrative Neuroscience (Discussion Leader: K.J. Kim / S. Lightman)
- 10:00 Coffee
- 10:30 Closing Remarks (G. Collingridge / K.J. Kim)
- 11:00 Lab Visit (SPINE, DHB) - K. Cho / S. Lightman
Lab Visit (MRC Centre) - G. Collingridge / E. Molnár
- 12:00 **Lunch (Zero Degree)**
- 13:00 **Free Discussion and Networking**
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Bristol's Tourist Information

<http://visitbristol.co.uk>

Bristol has been a port for a thousand years but came to prominence after the Norman invasion of 1066. St Augustine's Abbey was founded in 1140, and after several additions became the [cathedral](#) of the new Diocese of Bristol at the behest of [King Henry VIII](#) in 1542. By the 14th century, the city was trading with Spain, Portugal, the Mediterranean and Iceland. After the discovery of America, Bristol was the main point of departure for voyages to the New World.

In the mid-18th century, Bristol was England's second city. The country was flooded with goods imported via Bristol from the New World, including cane sugar, tobacco, rum and cocoa – products of the slave trade. Around this time, merchants began to build their homes away from the docks in genteel areas such as Clifton. The beautiful Georgian houses of this area are a legacy of these times.

The aerospace industry has had a base in Bristol since its early days when George White founded the [Bristol Aeroplane Company](#) at Filton in 1910. In the mid-1960s, [Concorde](#) was built and tested at Filton.

“ The most beautiful, interesting and distinguished city in England”

- John Betjeman, former poet laureate

From Bristol Airport:

Bristol International Airport is only 13 kilometres to the south of the city. the [Bristol International Flyer service](#) (<http://www.bristolairport.co.uk>) operates between the airport and key destinations in Bristol. The 330 Flyer service stops at Clifton Triangle West (a five-minute walk from the University) and the 331 stops at Bristol Bus and Coach Station (a 20-minute walk from the University). There are connection flights from Amsterdam, Paris, Frankfurt and New York.

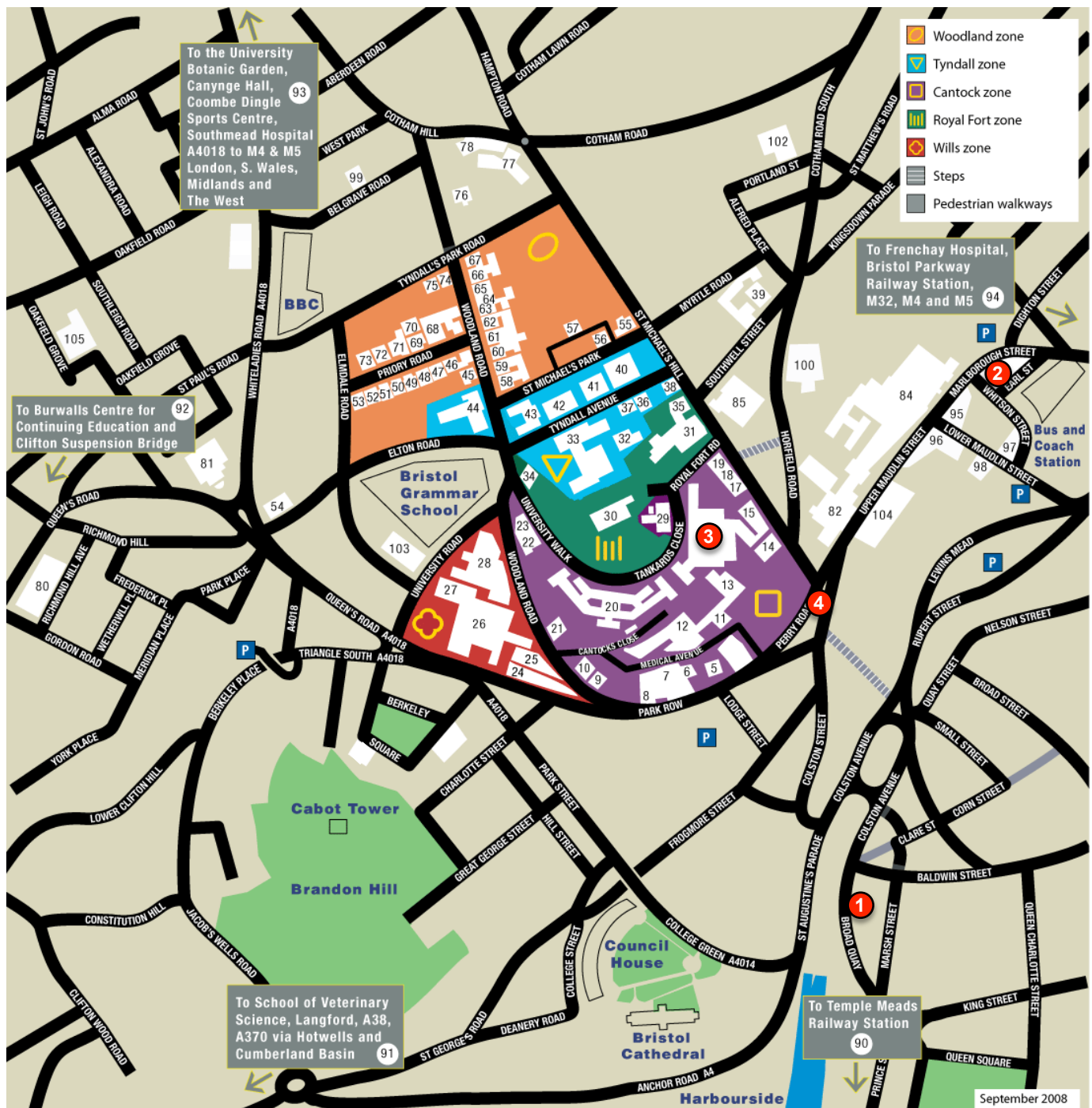
From London Heathrow:

There is a direct [National Express Coach](#) (www.nationalexpress.com/home.aspx) Service between Heathrow Terminal 4 and Bristol. Alternatively, you can take the [Heathrow Airport Express](#) to London Paddington and a [Great Western train](#) from Paddington to Bristol (**Bristol Temple Mead Station**).

Park Street

The most beautiful Georgian Street in Bristol





- ① Radisson Blu Hotel
- ② SPINE, Dorothy Hodgkin BLD
- ③ MRC Centre, Medical Sciences BLD
- ④ Zero Degree