



2024 Brain Awareness Week

**Feeding Connections:
Bringing the Brain
of Tomorrow**

15-16 March 2023

BRISTOL

Welcome

Irene Echeverria Altuna,
President of SRUK/CERU



**Society of
Spanish Researchers
in the United Kingdom**

Neuroscience is a burgeoning field which has everything to gain from conversations between professionals of different fields and from the complementary perspectives of researchers spanning various career stages.

Due to its cross-disciplinary nature, SRUK/CERU is an unmatched forum for these conversations to emerge and, notably, the **SRUK/CERU Neuroscience Committee** has masterfully shaped the first of such exchanges. By joining forces with the **Cerebellum and Emotional Networks project** and joining the momentum of the **Brain Awareness Week**, SRUK/CERU is ecstatic to host its **III Medical Sciences Symposium**, under the theme of **“Feeding Connections: Bringing the Brian of Tomorrow”** in the vibrant city of Bristol.

Welcome

About the event

The **Neuroscience Committee** from the Society of Spanish Researchers in the United Kingdom (SRUK/CERU), with the support of the Cerebellum and Emotional Networks project funded by the European Union, is bringing for the first time the Brain Awareness Week (BAW) to **Bristol** on the **15th and 16th of March 2024**.

We have organised a two-day event for everyone interested as we wanted to be part of this worldwide initiative dedicated to exploring the wonders of the brain.

Our theme? "Feeding Connections: Bringing the Brain of Tomorrow".



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What to expect? During day 1, **Neuroscience in the Pub**, our speakers will talk about the secrets of our emotional brain and the importance of neurodiversity, then, we will enjoy a music session while we understand the benefits of music therapy. On day 2, **Neuroscience Symposium for All**, our selected speakers will bring the main challenges in Neuroscience inspiring us to find solutions and raise awareness.

Why should you come? Well, **understanding the brain is crucial**. It impacts human health, tech, ethics, and our whole knowledge of the mind. We're not just talking about brainy stuff; we're making real strides in neurodegenerative diseases, ageing and neurodevelopment.

Organizers

SRUK/CERU Neuroscience Committee

This exciting initiative is a great opportunity to gather Spanish researchers in the UK working in the field of Neuroscience. Our main objectives are: collaboration, visibility and bringing neuroscience to the general public.



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Ana Luisa Gil Martinez,
Chair of the SRUK/CERU
Neuroscience Committee
Postdoctoral Fellow in
Neurogenetics at University
College London



Álvaro Murillo
Research associate
in UK Dementia
Research Institute at
Cardiff University



**Patricia Garcia
Jareño**
Research Assistant
(Gene Therapy) at
King's College London



**Marta Domínguez
Prieto**
Lecturer in Pharmacology
at De Montfort University
Leicester

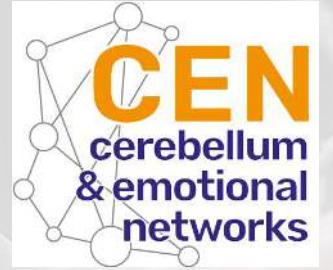


**Sara Alvira de
Celis**
Research Project
Manager at
University of Bristol

Collaborators

Cerebellum and Emotional Networks project

A Marie Skłodowska-Curie Innovative Training Network exploring the brain circuits that underlie emotional behaviour. This programme aims to bring together researchers from across Europe.



Funded by
the European Union



Sara Alvira de Celis
Research Project
Manager at University of
Bristol



**Dianela Osorio
Becerra**
MSCA PhD student at
the University of Pavia



Patricia Gil Parterna
MSCA PhD student at the
Uppsala University

About the city

Bristol



The name "Bristol" evolved from the Old English "Brycgstow", which means "the place at the bridge".

A historical city in the southwest of England, Bristol was founded around the year 1000 AD. Predating the settlement at the confluence of the Frome and Avon rivers were the Iron Age hillforts and Roman villas.

Self-guide Bristol city



Today, Bristol is a forward-looking location that learns from its past. Confronting its historical ties to the slave trade, the city saw the removal of a contentious statue of the locally-born slave trader Edward Colston, in 2020, sparking crucial discussions about its past and future. Lately, thanks to its environmental advancements and recycling program, Bristol has been ranked as the most sustainable city in Great Britain.

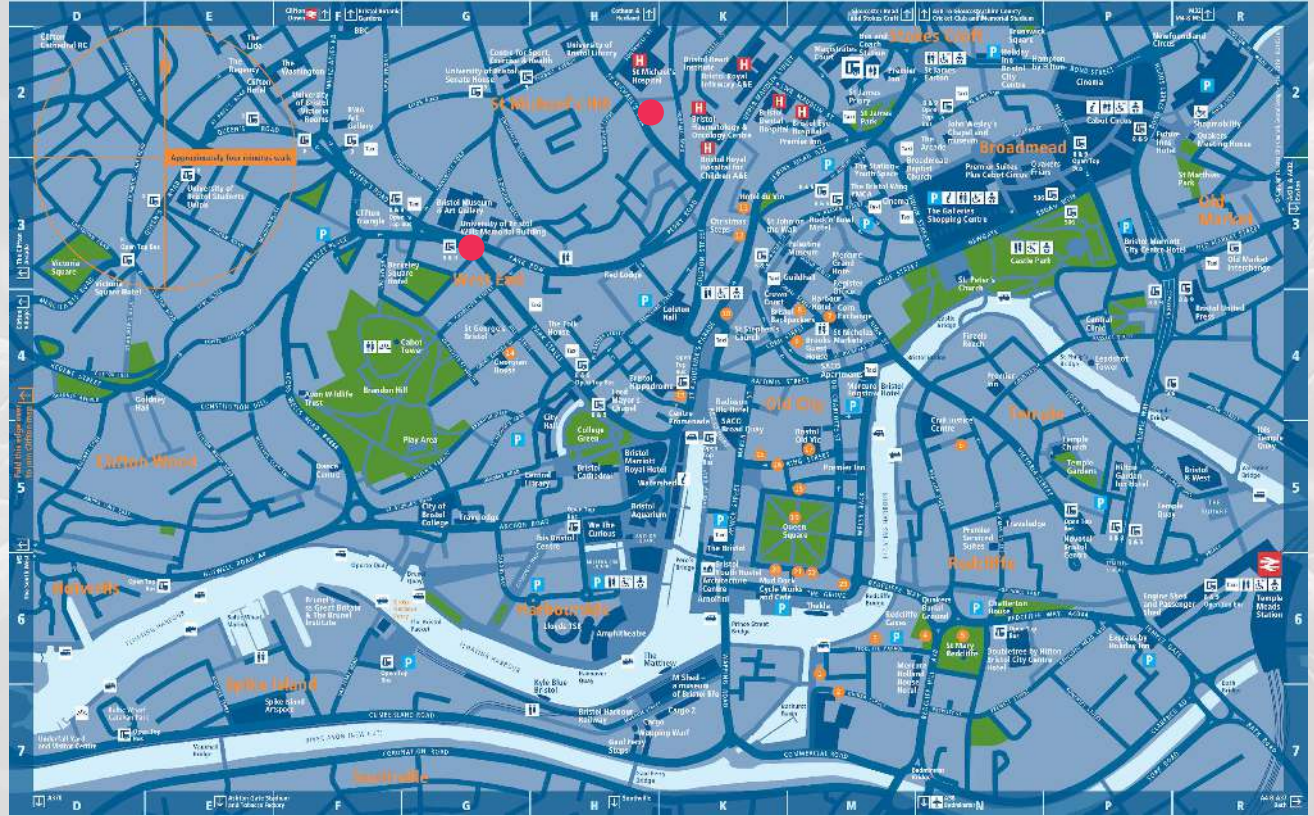


About the venue

Bristol University



Founded in 1876, the University of Bristol offers a world-class learning environment. Their academic excellence is combined with an independent and forward-thinking spirit.



- The Robin Hood Pub, 56 St Michael's Hill, BS2 8DX
- Wills Memorial Building, Queens Rd, BS8 1RJ

Programme

Day 1

Neuroscience in the pub



Friday 15 March 2024, 17.30h



The Robin Hood Pub, 56 St
Michael's Hill, BS2 8DX

17.30 -17.40

Welcome

17.40 - 18.00

Emotional Brain Talk

Jingjing Ye, University of Edinburgh

18.00 - 18.20

Neurodiversity Talk

Vassilemma Spatharioti, University of Bristol

18.20 -18.45

The use of music to support rehabilitation after stroke.

Vicky Guise

18.45

Music Session

Speakers



Jingjing Ye

MSCA PhD student at the University of Bristol

Jingjing Ye is a **Marie Skłodowska Curie Researcher** within the CEN programme. She is investigating the **relationship between the cerebellum and fear networks in autism and intellectual disability**. She has international experience in both academia and the pharmaceutical industry in Neuroscience and Molecular Biology and has worked as an engineer in MRI facilities. During her MSc studies at the University of Bristol she was involved as a Senior Resident facilitating the well-being and inclusivity of students.'



Vicky Guise Music Therapist for Chroma

Vicky Guise currently works as a **Music Therapist** for Chroma working with a wide range of clients including those who have experienced brain injury, stroke and young people with additional needs. Vicky is currently exploring this interest further through a **Research Masters at Cardiff Metropolitan University**. Outside of Music Therapy, Vicky is also a **flute player and enjoys playing in bands for a number of singer/songwriters**.

Neuroscience in the pub



Vassilemma Spatharioti

MSCA PhD student at the University of Edinburgh

Vassilemma Spatharioti is a **Marie Skłodowska Curie Researcher** within the CEN programme. She is investigating **the role of the cerebellum in susceptibility to emotional changes in pain**. She is passionate about Arts and has studied theatre, drama and dance. She has also volunteered in educational programmes that cross Arts and social rehabilitation.

Programme

Day 2

Neuroscience Symposium For All

 Saturday 16 March 2024, 10.00h

 Wills Memorial Building, Queens Rd,
BS8 1RJ

- 10.00 – 10.30 Registration**
- 10.30 – 10.45 Institutional Welcome**
Irene Echeverria Altuna, President of SRUK/CERU
Dr Ana Luisa Gil Martínez, Chair of SRUK/CERU Neuroscience Committee
- 10.45 – 11.15 Challenge 1: How synapses are formed during development, and what if something goes wrong.**
Prof Beatriz Rico, King's College London
- 11.15 – 11.45 Challenge 2: Listening and learning: the value of the patient voice in the development of advanced therapies for neurodegenerative disease.**
Dr Emma Lane, UCB Pharma
- 11.45 – 12.15 Coffee Break (Networking)**
- 12.15 – 12.45 Challenge 3: Exposing the biological basis of schizophrenia: Diagnosis, treatment and stigma in the light of genomics.**
Dr Antonio Pardinás, Cardiff University
- 12.45 – 13.15 Challenge 4: Linking across scales of neuroscience: From neurotransmitter receptors to brain-wide activity during cognition.**
Dr Seán Froudíst-Walsh, University of Bristol
- 13.15 – 14.15 Lunch and Coffee Break (Networking)**
- 14.15 – 14.45 Challenge 5: The South West Dementia Brain Bank: an invaluable research resource.**
Dr Laura Palmer, University of Bristol
- 14.45 – 15.30 Challenges Debate Round Table**
- 15.30 – 16.00 Closing Remarks**

Speakers

Prof. Beatriz Rico



Professor of Developmental Neurobiology,
King's College London.

Challenge 1: How synapses are formed during development, and what if something goes wrong.

She received her **PhD at the University Autónoma of Madrid** and did her **postdoctoral research at the University of California** at San Francisco.

In 2005, she became an **Assistant Professor at the CSIC** in the Institute of Neuroscience in Alicante (Spain). In 2014, she was recruited for a **Professorship position at King's College London**.

Rico's lab is interested in understanding how neuronal connections are established and organised in functional networks. Her lab is focused on three main questions: 1) How are the mammalian cortical networks built, 2) how do they respond to activity, and 3) What are the functional consequences of disrupting the development of cortical circuitries?

The European Molecular Biology Organisation has recognised her work with an EMBO YIP 2010, EMBO member 2021, and she has been granted an **ERC-Consolidator grant**, an **ERC Advanced grant**, and a **Wellcome Investigator award**.

Speakers

Dr Emma Lane



Global Patient Engagement Lead for gene therapy at UCB Pharma.

Challenge 2: Listening and learning: the value of the patient voice in the development of advanced therapies for neurodegenerative disease.

She started there in September 2023 and is also **Honorary Associate Professor in Neuropharmacology at Cardiff University**. She started out with a **PhD in the neuropharmacology** of Parkinson's disease at King's College London, subsequently taking an opportunity at Lund University in Sweden to develop research in cell therapies, again for Parkinson's.

After moving to Cardiff University School of Biosciences as a **post-doctoral researcher**, she then established a successful **research group in the School of Pharmacy** developing world-leading research on improved preclinical modelling and understanding of the side effect profile of novel pharmacological and ATMP interventions for Parkinson's.

More recently, Emma initiated the **LEARN Study group**, exploring the patient experience of clinical trials, specifically in pharmacological and ATMP-based products for neurodegenerative diseases. This work included co-production of resources with trial participants to improve communication around trial delivery to enhance future recruitment and retention.

Speakers

Dr Antonio Pardinas



Senior lecturer at the Centre for Neuropsychiatric Genetics and Genomics (CNGG), Cardiff University.

Challenge 3: Exposing the biological basis of schizophrenia: Diagnosis, treatment and stigma in the light of genomics.

Antonio is a **senior lecturer at the Centre for Neuropsychiatric Genetics and Genomics (CNGG), Cardiff University**, and part of research team led by professors James Walters, Michael O'Donovan and Sir Michael Owen.

A former population geneticist, he completed his **PhD in Biology at the University of Oviedo (Spain)** in 2014, arriving to Cardiff shortly after. His main topic of research at the CNGG has been the use of genomic data to investigate schizophrenia, being first author of large-scale studies on the topic (PMID: 29483656, PMID: 35396580) including the first genome-wide analysis of treatment resistance in this disorder (PMID: 35019943).

He currently **leads a group of early-career researchers** working on the pharmacogenomics of clozapine (PMID: 36804072), the only evidence-based medication for those who do not respond to conventional antipsychotics.

Antonio is also a **member of the Schizophrenia Working Group of the Psychiatric Genomics Consortium** (<https://pgc.unc.edu/>) and a **co-investigator of the European Research Consortia REALMENT** (<https://www.realment.uio.no/>) and **PsychSTRATA** (<https://psych-strata.eu>).

Speakers

Dr Seán Froudist-Walsh



Research leader of the **Cognition, Anatomy and Neuronal Networks (CANN)** research group at the University of Bristol.

**Challenge 4: Linking across scales of neuroscience:
From neurotransmitter receptors to brain-wide activity during cognition.**

Seán trained at **Trinity College Dublin, King's College London and New York University in Mathematics, Psychiatry and Neuroscience research**. He has developed methods for computational modelling and integration of brain data across scales, and species. This work has led to discoveries of principles of cortical receptor organisation and multi-scale computational models of cognitive functions including working memory and conscious perception.

Since 2022, he leads the **Cognition, Anatomy and Neural Networks (CANN) research group** at the University of Bristol. The CANN lab aims to understand how the brain's anatomy shapes our conscious experience and cognition, and how differences in anatomy across species and across people may lead to different experiences and cognitive abilities. By understanding these mechanisms, we aim to contribute to discovery neuroscience and psychiatry.

Speakers

Dr Laura Palmer



Manager of the South West Dementia Brain Bank
(University of Bristol).

Challenge 5: The South West Dementia Brain Bank:
an invaluable research resource.

Laura studied at the University of Bristol where she completed her **degree in Pathology & Microbiology** and later her **PhD in Neuroscience**. In 2004 she began a **technical post with the SWDBB which she now manages**.

Laura undertook a part-time PhD between January 2006 and July 2014. Her PhD was **sponsored by the charity BRACE and focused on the Renin Angiotensin System (RAS)** which is an important enzyme pathway and signalling system.

Almost all of the major advances in our understanding and treatment of neurological disease have been based on the examination of human brain tissue. Yet despite much progress, the precise causes of nerve cell damage in Alzheimer's disease and other dementias remain poorly understood. Existing treatments reduce symptoms for a period of time but do not stop progression of the disease. **We have an urgent need for more research into dementia, and comparison of brain tissue from people who have had dementia** with that from people who have not is a crucial way for us to find out why different types of dementia occur, how they differ and how they progress. **The aim of the SWDBB is to provide researchers with access to high quality brain tissue to further our understanding of dementia.**



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