



# British Society for Proteome Research Summer and Autumn Newsletter

## BSPR 2018 conference



Proteomics plays a significant role in our understanding of 'One Health and Wellness.' 'One Health' is a global initiative to connect medicine (in humans and animals) agriculture, and physical sciences. 'Wellness' refers to the initiatives we take to monitor ourselves to stay healthy. Knowing and understanding proteomes will help us take the necessary steps to remain healthy. Indeed, to help us achieve that goal all facets of proteomics research topics were selected and presented: including bioinformatics, biotechnology, microbiology, cancer, immune problems, fundamental biology, and biomarker discovery.

Over 100 proteomics students and scientists attended the three-day meeting in University of Bradford Norcroft conference centre. Attendees represented academic, biotechnology and pharmaceutical laboratories and companies. They came from the UK, Ireland, Denmark, France, Italy, Switzerland, USA, and even as far as New Zealand. Both established scientists and young investigators just starting their careers gave talks.

In the evenings, attendees had the opportunity to spend a few hours during the reception in Cartwright Halls to exchange scientific ideas, listen to a live band, and look at David Hockney's art. People also had fun participating in Kathryn Lilley's quiz at the conference dinner in the Midland Hotel Ballroom.

The day before the meeting (8 July) a data research workshop organised Ben Collins (ETH Zurich) and Alistair Bailey (University of Southampton) and financed by the BSPR took place. It introduced software and statistical methods to support proteomics data interpretation.

For more details about the meeting, please see: <http://www.bspr.org/event/bspr-meeting-2018>



Auditorium



Julia Chamot-Rooke (Institut Pasteur)



Henning Hermjakob (EMBL-EBI) and Sara Zanivan (Cancer Research UK)

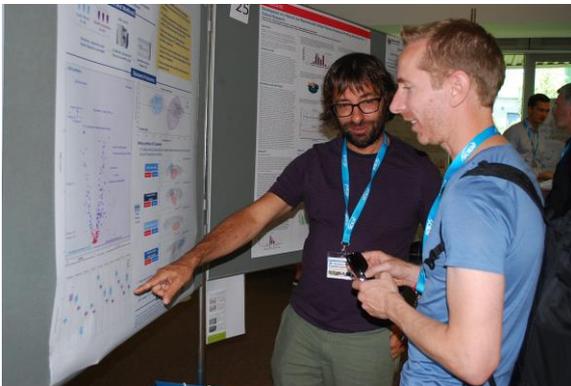
## Photos from BSPR 2018



John Wilson (Cold Spring Harbor Laboratories) and Erik Verschuuren (Evosep)



Chuna Choudhary (Univ. of Copenhagen) and Claire Eysers (Univ. of Liverpool)



Benjamin Nicholas and Alistair Bailey (Univ. of Southampton)



Emøke Bendixen (Aarhus University), Juan Antonio Vizcaino (EMBL-EBI), James Waddington (Univ. of Liverpool student), Paul Cutler (UCB Pharma), and Yuting Yin (Student - Univ. College Dublin)



Reception at the Midland Hotel. Can you spot yourself?



Quiz after gala dinner at the Midland Hotel. Angus Lamond (Dundee), Iain Mayer (Sciex), Emøke Bendixen (Aarhus University) and Clare Sanderson (Sciex)

# BSPR 2018 Bursary and Fellowship awards

Every year the BSPR awards several bursaries to students to help them cover the cost of the attendance to proteomics meetings. This year, most of them have been awarded to students attending the annual BSPR meeting. But we also support students who wish to attend other conferences such as HUPO. The BSPR also awards a MJ Dunn fellowship to postdoctoral scientists. If you are interested in obtaining a bursary or fellowship please see <http://www.bspr.org/about/bspr-awards-and-fellowships> for more details on how to apply.



## Congratulations to the BSPR 2018 student bursary and MJ Dunn Fellowship recipients.

Conference reports can be read on <http://www.bspr.org/content/bspr-2018-bursaries-and-fellowships>

BSPR student bursary recipients are (*left photo from left to right*):

- James Waddington (University of Liverpool)
- Emily Bowler (University of Southampton)
- Samuriwo Tendayi (University College London)
- Marco Alfieri (University of Parma School of Medicine, Parma, Italy and University College Dublin)
- Yuting Yin (University College Dublin)
- Andrew Shapanis (University of Southampton)
- Owen Vennard (University of Cambridge)

This year's **MJ Dunn fellow** is:

- Julien Peltier (Newcastle University) (*far left in photo*)

**Early Investigator awards** for outstanding oral presentations and best poster awards during BSPR 2018 was given out by Professor Rainer Cramer (*far right*) to (*left to right*):

- Michael Nelson (Early Investigator, University of Southampton)
- Julien Peltier (MJ Dunn Fellow, Newcastle University)
- Emily Bowler (Early Investigator, University of Southampton)
- Owen Vennard (Poster, University of Cambridge)
- Benjamin Nicholas (*not in photo*) (Poster, University of Southampton)



**Congratulations and well done for the outstanding presentations!**

# BSPR 2018 Acknowledgments

The BSPR committee thanks all the people for their hard work that made BSPR 2018 conference in Bradford a possible. Notably:

*Organising Committee:* Chris Sutton (host and chair), John Timms, Rainer Cramer, Tim Palmer, Roz Jenkins, and Karin Barnouin.

*Scientific Programme:* Kathryn Lilley, Andy Pitt, and Steve Pennington

*Helpers:* Amy George, Jodie Bojko, Ghasak Kashtl, Sidra Saeed, Sadr-ul Shaheed, James Waddington, Chu Qiao Gong, and Peter Kilby.

*Sponsors:* The conference would not have been possible without the generous sponsorship of the following companies:



# BSPR Lecturer 2018

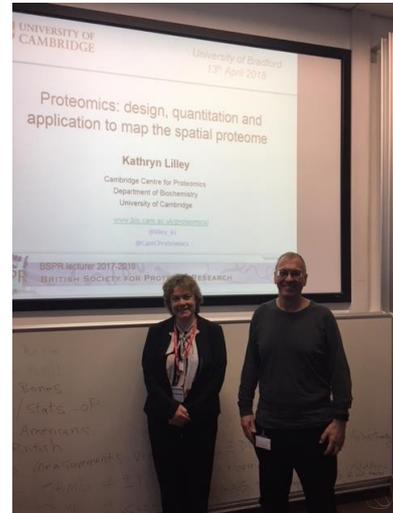
The 2018 BSPR Lecturer is Professor Kathryn Lilley from the University of Cambridge. Kathryn is director of both the Cambridge Centre of Proteomics and Cambridge Systems Biology Centre. In 2017 she was awarded the EuPA Juan Pablo Albar Proteomics Pioneer award. This year Kathryn was awarded the HUPO 2018 Award for Distinguished Achievement in Proteomic Sciences.

Her primary areas of research are spatial proteomics and protein moonlighting. The laboratory employs a wide range of methods, including mass spectrometry, next-generation sequencing, cellular fractionation and machine learning.

The lectures she is giving for the BSPR are on 'proteomics design and quantitation' and 'proteomics approaches to map the three-dimensional cell.' The first talk is mainly for biologists who are new to quantitative proteomics. Here, Kathryn describes the importance of experimental and analytical design to obtain robust data. The second is for cell biologists with some knowledge of proteomics. In it, she demonstrates that it is possible to map dynamic changes in protein relocalisation with high-resolution.

Kathryn will end her term at the end of December. We thank her for her time and fantastic presentations.

We are pleased to announce that Professor Angus Lamond has accepted to be the BSPR lecturer during 2019.



Kathryn Lilley with Chris Sutton

## Forthcoming BSPR Lecture

**22 November: Newcastle University**

**Talk title:** Proteomics: design, quantitation and application to map the spatial proteome

To invite Professors Kathryn Lilley or Angus Lamond to give a lecture please email: [secretary@bspr.org](mailto:secretary@bspr.org).

# HUPO gives Kathryn Lilley a Distinguished Achievement in Proteomics Sciences Award

Kathryn Lilley was given at HUPO 2018 last month a Distinguished Achievement in Proteomics Sciences award. She received this award in recognition of her significant contributions in developing technologies that enable the measurement of proteome dynamics in both space and time in a high throughput manner such as "Localization of Organelle Proteins using Isotope Tagging" (hyperLOPIT) The methods are upheld by robust open-source statistical and computational data analysis software developed in her laboratory. These tools were applied to systematically unravel how chemicals poison bacterial cells, model drosophila systems, and to study the RNA-binding proteome. Since the development LOPIT, many laboratories have applied them successfully in their own research. Indeed, several talks at BSPR 2018 mentioned the application of this technology in their research. Congratulations Kathryn!



John Yates III (left) and current HUPO president Mike Snyder presenting Kathryn Lilley (Middle) the award at HUPO 2018 in Orlando, Florida, USA .

# Proteomics Network

The network aims to promote collaboration and the sharing of resources across the proteomics community. Through creating a database of groups, facilities, and specialties, we are generating an interactive map that scientists from all sectors can access and search. We are encouraging all scientists, from industry, research facilities, and research groups to contribute to the map and highlight their research and expertise. As the map grows, users will be able to search by keywords or phrases to find groups that match their needs - either for collaborations, jobs expert advice. While a tailored interactive website is being developed, we are making all the data available from this map: <https://www.google.com/maps/d/u/1/edit?mid=1UWNVdeMX8UzMOEuO1Y260dWZ4UFYUKZy&ll=53.6290346445314%2C-3.1813819000000194&z=7>. Ideally, we would like all proteomics laboratories in the UK and Ireland to input their details. To contribute, please send your group name, address, a brief description of the laboratory, three keywords and any links to [h.whitwell@imperial.ac.uk](mailto:h.whitwell@imperial.ac.uk).



Interactive UK/Eire Proteomics Network map

## BSPR Networking

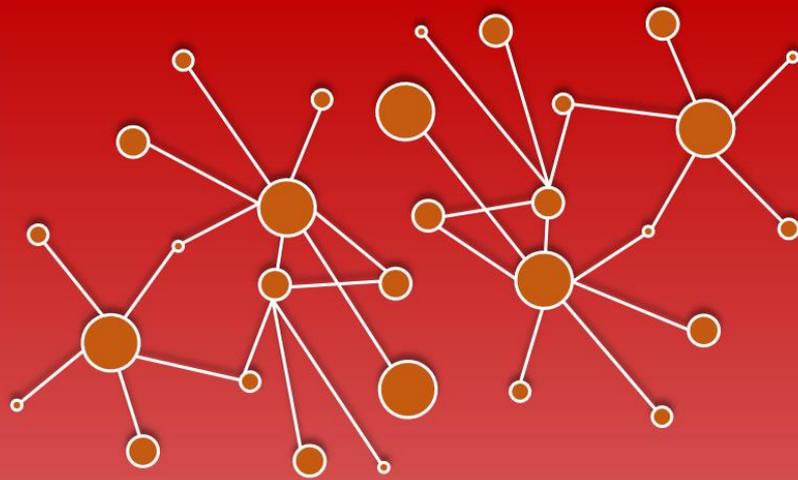
Follow the BSPR and post proteomics-related information, suggestions and questions on our Twitter, Facebook and LinkedIn pages.

Follow us on social media!   @UKBspr 

Join our LinkedIn group

<https://www.linkedin.com/groups/13590450>

# BSPR Annual Scientific Meeting



**Integrative  
Proteomics:**  
Protein Function,  
Cellular Systems  
and Big Data



**1<sup>st</sup> - 3<sup>rd</sup> July 2019 • Southampton**



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UNIVERSITY OF  
**Southampton**

## Save the Date

**BSPR 2019** will take place in Southampton, UK in the Spark Conference Centre 1 – 3 July 2019. More details will be available in the upcoming months on our website @ [www.BSPR.org](http://www.BSPR.org).

**HUPO 2019** will be 15-18 September 2019 in Adelaide, Australia in the Adelaide Convention Centre. For more information please see <https://www.hupo.org/event-2567574>.

## Open Positions

### 18001279 Proteomic Mass Spectrometry Scientist – Jealotts Hill – Syngenta

An exciting opportunity to develop your science career in the application of mass spectrometry-based proteomics. To add value to the team you will have experience in sample preparation and LC-MS based quantitative proteomics to solve complex biological questions. Within our laboratory you will work on a variety of projects supporting Crop Protection and Seeds businesses. Projects require application of a variety of quantitative methodologies including, proteome-wide protein expression and post-translational modification profiling to fully characterize biological systems, chemical proteomics approaches to characterize novel mode-of-actions, and targeted quantification of endogenous and transgenic proteins.

To apply create a generic profile on the external career site ([www.syngenta.co.uk/careers](http://www.syngenta.co.uk/careers)) following the instructions:

BSPR members may informally discuss this opportunity with BSPR Secretary, Peter Kilby ([peter.kilby@syngenta.com](mailto:peter.kilby@syngenta.com))

## PDRA VACANCIES



Up to five post-doctoral positions will be available in Q1/Q2 2019 in Conway Institute in University College Dublin ([www.ucd.ie](http://www.ucd.ie)) and the UCD spinout company Atturos ([www.atturos.com](http://www.atturos.com)). All will projects involve aspects of mass spectrometry-based protein biomarker discovery and evaluation. Two posts are funded through a forthcoming Horizon2020 consortium working on development of novel bioreactors to assess endocrine disruptors; one post for protein biomarker discovery (4years; UCD) and one for targeted MRM assay development and biomarker evaluation (2.5years; Atturos). We will also have up to three pharma company funded posts to undertake novel biomarker discovery and evaluation in the broad area of inflammatory arthritis. We encourage informal enquiries and if you would like further information please e-mail: [Stephen.Pennington@ucd.ie](mailto:Stephen.Pennington@ucd.ie) including a copy of your CV.