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**BSPR Annual Scientific Meeting 2018 report**

I would like to express my gratitude to the Committee of the British Society for Proteome Research (BSPR) for awarding me with a Student Conference Bursary. The BSPR 2018 annual scientific meeting took place over 3 days at the University of Bradford, a 50 years of academic excellence in the green midlands of England. The meeting was held from 9th to 11th of July, and topics focussed on “One health and wellness”. One hundred and four attendees enjoyed a conference covering the cutting-edge aspects of mass spectrometry-based proteomics, with speakers drawn from across Europe, North America and Asia. Moreover, the BSPR proudly offered several bursary opportunities in order to encourage young researchers to attend this international meeting. This year, seven PhD student won the early career researchers award and had the privilege to be sponsored by the BSPR organization.

The day before the meeting, an excellent and interesting workshop based on the application of DIA-SWATH mass spectrometry and the R software for proteomics analysis has been taken place in the Midland Hotel.

The main topics of the first day of the meeting were “One Health” and “PTMs and chemical modification”, comprising inspiring talks by researchers and professors from USA, Europe and England. Attentions have been focused on the importance of the biological interconnections between human, animals, plants and microbes (i.e. the One Health perspective). Different mass spectrometry methods and their respective application fields have been presented, ranging from the research of new biomarkers to structural studies using mass spectrometry. During the second part of the day, discussions were focused on the use of proteomics in analysis of proteins phosphorylation, oxidation and methylation, highlighting the biological relevance of this modifications.

The spatial proteomics/interactomics, data integration, and computational proteomics were the main key-topics of the second day focusing on the problem of big-data analysis and comprehension. Regarding my experience in this meeting, the session on big-data was one of the most interesting, embellished with brilliant talks by Ben Collins (ETH Zurich) and Angus Lamond (University of Dundee). The talk of the latter was focused on a deep phenotype characterization of induced pluripotent stem cells, a research field near to the competences I have gained during my PhD course in Italy under the supervision of Prof. Roberto Toni, and in Ireland thanks to the teaching of Prof. Stephen Pennington.

The topics of the last day of the meeting included “Cellular dynamics” and “Clinical and Functional Proteomics”. It was really interesting to listen about the application of mass spectrometry based-proteomics methodologies to the clinical and pharmaceutical trials, learning the actual limits and future perspectives of proteomics and target/quantitative mass spectrometry to human wellness. Thanks to the high level of each single speaker, this annual BSPR meeting helped me to acquire essential information about the state-of-art of proteomics in several fields of biomedical research, letting me to be involved in a top scientific environment. I’m grateful to every single person that made me feel at home – I was the only Italian PhD student in this meeting – and discussed with me regarding the poster that I have presented during lunch and coffee breaks, giving me important advices. I would also like to thank the organization for excellently manage the wine reception and conference dinner.

My aim was to enlarge my knowledge about the world of mass spectrometry (instruments, sample preparation, data analysis), and this meeting completely fulfilled my expectation.

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