**Report for the Summer School of Advanced Proteomics (30/07/2017-05/08/2017)**

I attended the Summer School for advanced Proteomics in August 2017. The summer school is located in „Kloster Neustift“ which is a beautiful convent surrounded by wine yards close to Brixen in North Italy. In total about 70 PhD students and postdocs from across Europe and a smaller international group took part. The program organisation was excellent, covering both more advanced proteomics and basic proteomic lectures. The course served both 1st year PhD student and postdocs. The teaching program started at the day of arrival with an opening lecture from a very well known presenter giving an actual overview of the topic. On the following days nearly all aspects of proteomics were covered from pre-mass spectrometry sample preparation, MS measurement to data analysis and network interpretation. All presenters were still available after lectures and workshops, meaning that there was enough time to talk through a personal issue over dinner or throughout other activities. Every second day comprised an on hands workshop after a very filled lecture program in the morning. On two evenings everybody was once challenged to present his/her own research work in a science slam and a poster presentation. This made the school very interactive and cemented a very lively exchange/friendship with other students. Very well fitted to the teaching lecture about clinical proteomics one afternoon consisted of various speakers outlining the applications and limitations of mass spectrometry analysis in research projects.

At the point I visited the summer school I have mainly done sample preparations and was ready to go for my first mass spec measurements. For my own personnel development, this course was important to understand the principles of mass spec analysis and different targeted proteomic approaches (thanks to the great lecture from Christina Lücke, Munich). My aim was to enlarge my previous knowledge about data analysis and attended the workshop (MASCOT database use from John Cottrell). For sure this helped me to gain confidence and how to deal with the different programs available and interpretation of data.

Due to the excellent organisation all lectures adhered very well to the timeline, the three course lunches, coffee breaks and dinners were always excellently managed into our dense program and there were activities on two afternoons – including a tremendous mountain hike in 35°C rewarded by fantastic views of the dolomites and river rafting or sightseeing in Brixen the other day.