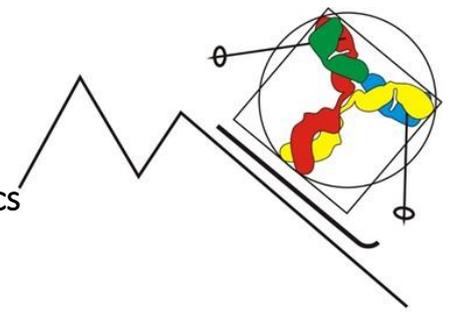


# 7<sup>th</sup> Alpbach Workshop on Affinity Proteomics

March 9<sup>th</sup> – 11<sup>th</sup> 2015

## Programme



### Day 1: Monday 9<sup>th</sup> March

15.00 Mike Taussig (Cambridge): Welcome and Introduction

#### SESSION 1: Mass spectrometry and Affinity Proteomics methods

Chair: Mike Taussig

15.10 Ruedi Aebersold (Zürich)

[Quantitative measurement of proteins and proteomes by targeted mass spectrometry](#)

15.40 Leigh Anderson (SISCAPA)

[Anti-peptide antibodies enable high-precision protein assays via mass spectrometry](#)

16.10 Susanne Gräslund (Stockholm)

[Using mass spectrometry to determine the quality of novel antibodies in immunoprecipitation](#)

16.30 Tea break

17.00 Mathias Uhlén (Stockholm)

[A global and genome-wide human protein atlas based on integration of omics approaches](#)

17.30 Lydie Lane (Geneva)

[Integration of mass spectrometry and antibody-based data in neXtProt](#)

17.50 Marius Ueffing (Tübingen)

[Functional relationships in protein networks linked to a common disease](#)

18.10 Michael Przybylski (Konstanz)

[Online biosensor-mass spectrometry: new tool for simultaneous detection, structure determination and affinity quantification of protein-ligand interactions from biological material](#)

18.30 Discussion

19.00 Reception and Dinner (Alpbacherhof)

## Day 2: Tuesday 10<sup>th</sup> March

### SESSION 2: Binder production

Chair: Andrew Bradbury

08.30 Andrew Bradbury (Los Alamos)

[Why we need to move away from commercial antibodies. Combining phage and yeast display to get to the best antibodies](#)

08.55 Michael Weiner (AxioMx, Inc.)

[Screening technologies for the rapid production of affinity reagents](#)

09.20 Stefan Dübel (Braunschweig)

[Linking high throughput in vitro antibody generation to ORF based functional target identification: a new approach for rapid biomarker discovery](#)

09.40 John McCafferty (Iontas)

[Construction and use of large antibody libraries in mammalian cells](#)

10.00 Christoph Merten (Heidelberg)

[Living droplets – functional screening of antibodies and vaccines at ultrahigh throughput](#)

10.20 Deepa Shankar (Thermo Fisher Scientific)

[Towards NextGen affinity reagents: achieving scientific reproducibility with specificity, sensitivity and selectivity](#)

10.40 Klaus-Peter Stengele (Roche Diagnostics)

[High-density synthetic peptide arrays as a tool for de-novo high-quality lead generation in peptide and peptoid drug candidate discovery: The Digital Display Library](#)

11.00 Light lunch and poster viewing

Skiing break

15.45 Tea and poster viewing

### SESSION 3: Industry and biomarkers

Chair: Ulf Landegren

16.10 Hanno Langen (Roche)

[Antibody-based proteomics versus mass spec proteomics approaches in biomarker research - current status and limitations](#)

16.35 Klaus Lindpaintner (Thermo Fisher Scientific)

Integrating omics: a multimodal biomarker approach towards personalized health care

### SESSION 4: Alternative binders

Chair: Andreas Plückthun

17.00 Andreas Plückthun (Zürich)

[Can intracellular proteins be targeted?](#)

17.25 Jonas Schaefer (Zürich)

[Establishment of an innovative high-throughput platform for next-generation binder discovery](#)

- 17.40 Brian Kay (Chicago)  
[Building a pipeline for producing recombinant affinity reagents to folded proteins and their phosphoepitopes](#)
- 18.05 Tom Soh (UC Santa Barbara)  
[Particle display: high-throughput sorting of individual aptamers from large libraries](#)
- 18.30 Paul Ko Ferrigno (Avacta):  
[Affimers as alternative affinity reagents for the life sciences](#)
- 18.45 Collecting boots
- 19.00 Depart for Alpengasthof Rosmoos for dinner

### Day 3: Wednesday 11<sup>th</sup> March

#### SESSION 5: Proteome Targets

Chair: Oda Stoevesandt

- 08.30 Susanne Müller-Knapp (Oxford)  
[On- and off-target effects of kinase inhibitors](#)
- 08:55 Ruth Birner-Grünberger (Graz)  
[Global protein function analysis in basic medical research and biotechnology](#)
- 09.15 Jamie Scott (Simon Fraser U)  
[The evolution of peptide-based vaccines to protect against HIV-1 infection](#)
- 09.40 Jim Trimmer (UC Davis)  
[Affinity reagents for proteomic research in brain](#)
- 10.05 Heng Zhu (Johns Hopkins)  
[A highway to mono-specific affinity reagents](#)
- 10.25 Fridtjof Lund-Johansen (Oslo)  
[How can we unite Affinomics and Proteomics?](#)
- 10.40 László Takács (Debrecen)  
[Monoclonal antibody proteomics: disease specific changes of the plasma proteome are detectable via epitome profiling](#)
- 11.00 Light lunch and poster viewing
- Skiing break
- 15.45 Tea and poster viewing

#### SESSION 6: Diagnostic and clinical applications

Chair: Carl Borrebaeck

- 16.15 Ulf Landegren (Uppsala)  
[Detecting proteins, few and many](#)
- 16.40 Jochen Schwenk (Stockholm)  
[VinnCARDIO - an affinity proteomics study to identify and translate plasma biomarkers for cardiovascular disease](#)

16.55 Olle Kämpe (Stockholm)

[Organ-specific autoimmunity - the targets of T and B cells](#)

17.20 Carl Borrebaeck (Lund)

[Development of a blood test for early diagnosis of pancreatic cancer](#)

## **SESSION 7: Short talks**

Chair: Mike Taussig

17.45 Yariv Wine (Tel Aviv)

[LC-MS/MS and Next Generation Sequencing for high-resolution analysis of the breadth and polarization of the human serum antibody and peripheral B cell repertoires](#)

18.00 Cécile Vincke (Brussels)

[Nanobodies as target tracers: labeling strategies for multiple imaging applications](#)

18.15 Yumin Teng (Crescendo Biologics)

[Humabody® V<sub>H</sub> - human single domain antibodies from the Crescendo mouse](#)

18.30 Marlitt Stech (Potsdam)

[Eukaryotic cell-free systems for the synthesis of antibody fragments](#)

18.45 Andrea Marschall (Braunschweig)

[Protein inactivation in vivo: intracellular antibodies can switch off the function of a cell surface molecule in mice](#)

19.00 Final Discussion

19.30 Buffet Dinner and Party at the Conference Centre

END