

PRE-ART

Symposium

With presentations on Protein Engineering and Design

September 18th & 19th 2019



Universität
Bayreuth
NW III
Lecture Hall H36

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<https://www.pre-art.uzh.ch/>

PRE ART Symposium

with presentations on
Protein Engineering and Design

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Place

Universität Bayreuth
NW III, Lecture Hall H36

Invited Speaker

Johan Aqvist, Uppsala University, Sweden
Roberto Chica, Ottawa University, Canada
Bruce Donald, Duke University, USA
Ora Furman, Hebrew University, Israel
Christophe Jung, LMU Munich, Germany
Dafydd Jones, Cardiff University, UK
Lynne Regan, Edinburgh University, UK
Dek Woolfson, Bristol University, UK

Organizers

Birte Höcker, Universität Bayreuth, DE
Anna Hine, Aston University, UK
Andreas Plückthun, Zürich University, CH

Wednesday, Sept 18th

- 9:00 Welcome by **Birte Höcker**
9:05 **Andreas Plückthun**
PRE-ART: Creating a Modular Binding System for Linear Epitope
9:45 **Dek Woolfson** (Bristol U)
Protein Design in Test Tubes, Computers and Cells
10:25 Coffee break
11:00 **Roberto Chica** (Ottawa U)
Rational Design of Protein Energy Landscapes
11:40 **Yvonne Stark** (Zürich U)
Selections for Peptides with Single Side-chain Resolution
12:00 **Bruce Donald** (Duke U)
Computational Protein Design: Peptide Inhibitors, PPI Design, and Targeted Biologics (Antibodies)
12:40 Lunch break
13:40 **Johan Aqvist** (Uppsala U)
Computation of Enzyme Cold Adaptation
14:20 **Josef Kynast** (Bayreuth U)
Computational Design of Side Chain Recognition Modules
14:40 **Ora Furman** (Hebrew U)
Structure-based Characterization and Design of Peptide Binding
15:20 Afternoon program

Thursday, Sept 19th

- 9:00 **Lynne Regan** (Edinburgh U)
Understanding, Manipulating and Exploiting Protein Structure and Function
9:40 **Anupama Chembath** (Aston U)
Making Libraries for Pre-ART
10:00 **Erich Michel** (Zürich U)
Increased Target Binding Specificity by Loop Extensions
10:20 Coffee break
10:50 **Christophe Jung** (LMU)
True Equilibrium Measurement of Transcription Factor-DNA Binding Affinities Using Automated Polarization Microscopy
11:30 **Dafydd Jones** (Cardiff U)
Bottom-up Assembly of Bionanohybrids: Beyond Biology
12:10 Final remarks
12:15 Closing of the meeting

