Symposium Program

Monday, September 26

12:30-14:00  Arrival/registration / poster installation

14:00-14:15  Welcome address

Session Chair: Kent Kirshenbaum

14:15-15:05  PL1  Ronald Zuckermann (Lawrence Berkeley National Laboratory, USA)
“Protein-Mimetic Materials from Sequence-Defined Peptoid Polymers”

15:05-15:35  KL1  Masanori Shigeno (Tohoku Univ., Japan)
“Non-equilibrium Thermodynamic Phenomena in Helix-Dimer Formation of Chiral Helicene Oligomers”

15:35-15:55  SL1  Soo Hyuk Choi (Yonsei Univ., Republic of Korea)
“12/10-Helical β-Peptide Foldamers with Switchable Handedness”

15:55-16:25  Coffee Break

Session Chair: Céline Douat

16:25-16:55  KL2  Stefan Hecht (Univ. Berlin, Germany)
“Remote Control over Folding by Light”

16:55-17:15  SL2  Annick Renevey (ETH Zurich, Switzerland)
“The Importance of N-Methylations for the Stability of the β4.3-Helical Conformation of Polytheonamide B”

17:15-17:35  SL3  Sunbum Kwon (Univ. Bordeaux, France)
“Ribosomal Translation of Foldamer-Peptide Hybrids by Flexible in Vitro Translation System”

17:35-18:05  KL3  Muriel Amblard (Univ. Montpellier, France)
“Turning Peptide Sequences into Cell-Penetrating Foldamers”

20:00  Gala Dinner at Hotel Mercure Bordeaux Cité Mondiale
Tuesday, September 27

Session Chair: Vladimir Torbeev

9:30-10:20  PL2  Derek Woolfson (Univ. Bristol, UK)  
“Constructing Complex, Functional Assemblies from De novo Peptides”

10:20-10:50  KL4  Huaiqiang Zeng (Institute of Bioengineering and Nanotechnology, Singapore)  
“Functional Aromatic Foldamers for Guest Encapsulation and Transport”

10:50-11:20  Coffee Break

Session Chair: Claude Taillefumier

11:20-11:40  SL4  Kent Kirshenbaum (New York Univ., USA)  
“Towards Peptoid Tertiary Structures”

11:40-12:10  KL5  David Aitken (Univ. Paris Sud, France)  
“Mapping Peptide Foldamer Space with 4-Membered Ring Building Blocks”

12:10-12:40  KL6  Brent Iverson (Univ. Texas at Austin, USA)  
“NDI: Versatile Stacking Molecule with a Split Personality”

12:40-14:50  Buffet lunch at premises and Poster Session

Session Chair: Vojislava Pophristic

14:50-15:20  KL7  Kevin Burgess (Texas A & M Univ. USA)  
“EKO and EKOS: A New Perspective On Discovery Of Small Molecules To Perturb Protein-protein Interactions”

15:20-15:40  SL5  Scott Cockroft (Univ. Edinburgh, UK)  
“Quantifying Non-Covalent Interactions Using Folding Molecules”

15:40-16:00  SL6  Takayuki Doi (Tohoku Univ., Japan)  
“Protein-Protein Interaction Inhibitor Thielocin B1”

16:00-16:20  SL7  Galia Maayan (Technion, Israel)  
“Metal-Binding as a New Approach for Peptoids Folding”

16:20-16:50  Coffee Break

Session Chair: Yann Ferrand

16:50-17:10  SL8  Konstantin Kudryavtsev (Lomonosov Moscow State Univ., Russia)  
“Functionalized poly-β-Prolines: Exceptional Synthesis, Structural Characteristics and Biological Activity”

17:10-17:30  SL9  Diane Bécart (Univ. Bordeaux, France)  
“Oligourea Foldamer-based Asymmetric Catalysis”

17:30-18:20  PL3  Eiji Yashima (Nagoya Univ., Japan)  
“Biomimetic Helical Polymers and Foldamers as Unique Chiral Materials”
### Wednesday, September 28

#### Session Chair: Tamás Martinek

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<th>Time</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>9:30-10:20</td>
<td>PL4</td>
<td>Hiroshi Sugiyama (Kyoto Univ., Japan)</td>
<td>“Chemical Biology of Nucleic Acids: DNA Origami and Artificial Genetic Switch”</td>
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<td>10:20-10:40</td>
<td>SL10</td>
<td>David Chenoweth (Univ. Pennsylvania, USA)</td>
<td>“Structural and Biophysical Studies of a New Class of Collagen-Mimetic Foldamers”</td>
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<td>10:40-11:10</td>
<td>Coffee Break</td>
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#### Session Chair: Soo Hyuk Choi

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<tr>
<td>11:30-11:50</td>
<td>SL12</td>
<td>Hua Jiang (Beijing Normal Univ., China)</td>
<td>“A Journey to Single handedness Foldamers”</td>
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<td>12:10-12:40</td>
<td>KL8</td>
<td>Andrew Wilson (Univ. Leeds, UK)</td>
<td>“Proteomimetics: Inhibitors of Protein-Protein Interactions and Beyond”</td>
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<td>12:40-14:30</td>
<td>Buffet lunch at premises and Poster Session</td>
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<td>14:30-15:00</td>
<td>KL9</td>
<td>Frank Würthner (Univ. Würzburg, Germany)</td>
<td>“Foldamer and Cyclophane Scaffold-Controlled Functional Properties of Aggregated Dyes”</td>
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<td>15:00-15:20</td>
<td>SL14</td>
<td>Claude Taillefumier (Univ. Clermont Auvergne, France)</td>
<td>“Conformational Control of Peptoids: Towards new Architectures”</td>
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<td>15:20-15:40</td>
<td>SL15</td>
<td>Sung Hyun Yoo (Korea Advanced Institute of Science and Technology, Korea)</td>
<td>“Foldamer Supramolecular Architecture as a Core Material with Anisotropic Surface Characteristics”</td>
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<td>15:40-16:00</td>
<td>SL16</td>
<td>Vladimir Torbeev (Univ. Strasbourg, France)</td>
<td>“Studying Mechanisms of Amyloidogenesis by Chemical Protein Synthesis”</td>
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<td>16:00-16:30</td>
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<td>16:30-16:50</td>
<td>SL17</td>
<td>Krishna Kumar (Tufts Univ., USA)</td>
<td>“A New Paradigm for the Design of Molecular Therapeutics”</td>
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<td>16:50-17:10</td>
<td>SL18</td>
<td>Yvonne Stark (Univ. Zürich, Switzerland)</td>
<td>“Development of Modular Peptide Binders Based on the Armadillo Repeat Protein Scaffold”</td>
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<td>17:10-18:00</td>
<td>PL5</td>
<td>Donald Hilvert (ETH Zürich, Switzerland)</td>
<td>“Nearer to Nature: Design and Optimization of Artificial Enzymes”</td>
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<td>18:00</td>
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