BORDEAUX 2012 SYMPOSIUM ON FOLDAMERS
a COST Action CM0803 - Marie Curie IAPP FOLDAPPI joint event
Bordeaux-Pessac January 30 – February 2 2012

Scientific Program

MONDAY JANUARY 30

15h00 - 16h50  Arrival/registration  Chair: I. Huc
16h50 - 17h00  Welcome address  Chair: I. Huc
17h00 - 18h00  PL1 W. DeGrado, Univ. California, San Francisco, USA
"From peptides to proteins: analysis of the hierarchic organization of proteins and de novo design of protein-like architectures"
18h00 - 19h00  Welcome mixer

TUESDAY JANUARY 31

9h30 - 10h30  PL2 E. Yashima, Nagoya Univ., Japan
"Synthesis and functions of synthetic helical oligomers and polymers"
10h30 - 11h00  KL1 G. Guichard, CNRS-Univ. Bordeaux, France
"Delineating the rules that govern helix formation in aliphatic oligomers comprising urea linkages"
11h00 - 11h30  Coffee Break  Chair: S. Mangelinckx
11h30- 11h50  OC1 R. Erdmann, ETH, Zürich, Switzerland
"Functionalized Collagen Model Peptides"
11h50 - 12h10  OC2 C. Tomasini, Univ. Bologna, Italy
"Gels and lipid layers from oxazolidin-2-ones based foldamers"
12h10 - 12h30  OC3 J. Clayden, Univ. of Manchester, UK
"Mechanism and maximization of screw-sense control in helical oligomers of Alb"
12h30 - 13h00  KL2 A. Barron, Stanford Univ., USA
"Biophysical killing mechanisms of human host defense peptides (HDPs) and their self-assembling helical peptoid mimics"
13h00 - 14h30  Buffet lunch at premises  Chair: D. Aitken
14h30 - 15h00  KL3 B. Koksch, Freie Univ. Berlin, Germany
"βγ-Foldameric sequences: promising design elements for α-helical coiled coil Mimicry"
15h00 - 15h20  OC4 E. De Santis, Univ. of Kent and Greenwich, UK
"Conformational and metal binding studies of α,β-peptoids"
15h20 - 15h40  OC5 A. Sorrenti, Univ. Autonoma de Barcelona, Spain
"New cyclobutane based scaffolds for functional and self-assembling molecules"
15h40 - 16h00  OC6 S. H. Choi, Yonsei Univ., Seoul, Korea
"Crystallographic characterization of secondary structures in unnatural peptides"
16h00 - 16h30  Coffee Break  Chair: A. Wilson
16h30 - 16h50  OC7 Y. Ferrand, IECB, CNRS-Univ. Bordeaux, France
"Molecular apple peels"
16h50 - 17h50  PL3 P. Balaram, Indian Institute of Science, Bangalore
"Folded conformations of peptides with hybrid backbones"

WEDNESDAY FEBRUARY 1

9h30 - 10h00  KL4 G. Roelfes, Univ. Groningen, The Netherlands
"DNA as scaffold for new bio-inspired catalytic systems"
10h00 - 10h20  OC8 C. Taillefumier, Univ. Clermont-Ferrand, France
"Development of strong peptoid cis-amide side chains inducers"
WEDNESDAY FEBRUARY 1 (continued)

10h20 - 10h50  KL5  Z.-T. Li, Fudan Univ., Shanghai, China
“Hydrogen bonded aromatic foldamers for molecular recognition and supramolecular materials design”

10h50 - 11h20  Coffee Break

11h20 - 11h50  KL6  J.-F. Lutz, CNRS, Strasbourg, France
“Synthetic polymers with controlled primary structures: design, (folding?) and function”

12h00 - 12h20  OC9  G. Callebaut, Ghent Univ., Belgium
“Asymmetric synthesis and selective deprotection of γ-chloro-α,β-diamino acid derivatives”

12h20 - 12h50  KL7  H.-S. Lee, KAIST, Daejeon, Korea
“Unprecedented 3D molecular architectures: folding into shape”

12h50 - 14h30  Buffet lunch at premises

14h30 - 15h00  KL8  L. Brunsveld, Technical Univ. Eindhoven, The Netherlands
“Protein assembly and cellular targeting via self-assembling foldameric architectures”

15h00 - 17h00  POSTER CESSION* and Coffee

17h00 - 18h00  PL4  S. Matile, Univ. Geneva, Switzerland
“Synthetic supramolecular systems (th)at work”

THURSDAY FEBRUARY 2

9h30 - 10h30  PL5  W. DeGrado, Univ. California, San Francisco, USA
“Design and pharmaceutical applications of foldamers that act on membranes and polysaccharides”

10h30 - 11h00  KL9  P. Arora, New York Univ., USA
“A systematic approach for targeting protein-protein interactions”

11h00 - 11h30  Coffee Break

11h30 - 11h50  OC10  A. Wilson, Leeds Univ., UK
“Structural and biological studies of O-alkylated oligomers as α-helix mimetics”

11h50 - 12h10  OC11  G. Tóth, Univ. Szeged, Hungary
“From post-translational modifications to synthetic foldamers”

12h10 - 12h30  OC12  M. Smietana, Univ. Montpellier, France
“Borono-nucleic acid foldamers”

12h30 - 13h00  KL10  M. Yamaguchi, Tohoku Univ., Sendai, Japan
“Hierarchical buildup of helicene-containing chiral foldamers”

13h00 - 14h30  Buffet lunch at premises

14h30 - 15h00  KL11  J.-M. Escudier, CNRS-Univ. of Toulouse, France
“Constrained nucleic acids: design and properties”

15h00 - 15h20  OC13  A. Siriwardena, CNRS-Univ. Picardie, Amiens, France
“Synthesis and biological activity of a library of functional “glyco”-foldamers”

15h20 - 15h40  OC14  D. Haldar, IISER Kolkata, India
“Soft materials from foldamers: structure and function”

15h40 - 16h10  Coffee Break

16h10 - 17h10  PL6  D. Hilvert, ETH, Zürich, Switzerland
“Designer enzymes”

17h10 - 17h20  Closing address

17h40  Bus departure to Chateau Carbonnieux
18h10  Visit of the winery and banquet diner

* Posters will be shown during the entire symposium