Monday, April 2th 2012

12H00 Registration

13H30:14H00 Welcoming Remarks

1. Structure: Helix and Beta-turn

14H00:14H45 Plenary Lecture 1-Brigida Bochicchio: Polyproline II conformation in elastomeric

proteins. Department of Chemistry "A.M. Tamburro", University of Basilicata,

Potenza, Italy. [PL1]

14H45:15H00 Ana I. Jiménez: Influence of a D-phenyl substituent on the D-turn propensity and

pyrrolidine puckering of proline. [O1]

15H00:15H15 Philippe Karoyan: Prolinoamino acids: tools in the design of somatostine β-turn

mimetics. [O2]

2. Proline Analogues and Cis/Trans Isomerization

15H15:15H30 Adeline René: Silylated proline surrogate in neurotensine analogues. [O3]

15H30:15H45 Mathieu Y. Laurent: Synthesis of quaternary oxaproline derivatives and

developments. [04]

15H45:16H00 Samuel Couve-Bonnaire: Asymmetric synthesis of both cisoid and transoid

conformers of fluorinated pseudodipeptides AA-Y[CF=CH]-Pro. [O5]

16H00:16H30 Coffee Break & Posters

16H30:17H15 Plenary Lecture 2 - Ernest Giralt: Prolyl oligopeptidase NMR Tales. A journey

towards discovery of new POP inhibitors. Institute for Research in Biomedicine

(IRB), University of Barcelona, Barcelona, Spain. [PL2]

17H15:17H30 Lucie Flauder: Synthesis and conformational analysis of δ -azaproline for its use

for the measurement of PPIase's activity. [06]

17H30:17H45 Grégory Chaume: Methodological study for the peptide coupling of the N-

deactivated stable proline surrogate CF₃-pseudoproline [O7]

17H45:18H00 Isabel Calaza M.: Synthesis of proline analogues with an octahydroindole core.

[80]

18H00:18H15 David J. Aitken: Cyclobutane []-amino acid-proline PNA: a ring size effect? [O9]

18H15:19H30 Poster Session

20H30 Gala Dinner at the Hotel Magnol, Montpellier Downtown

Tuesday, April 3th 2012

3. Proline-apparented Monomer and Polymerization

- 08H30:09H15 Plenary Lecture 3 Helma Wennemers: From Azidoproline to Functionalizable Molecular Scaffolds and Collagen Laboratorium für Organische Chemie, ETH Zürich, Zürich, Switzerland. [PL3]
- 09H15:09H30 Charlotte Martin: Synthesis of homopolypeptides with PPII structure. [O10]
- 09H30:09H45 Cécile Caumes: Foldamers derived from β -prolines and prolinoamino acids. [O11]
- **09H45:10H00 Céline Douat-Casassus:** Helical Folding Propensity of Aliphatic Urea Oligomers with Multiple Adjacent Pyrrolidine Units. **[O12]**
- **10H00:10H15** Guilhem Chaubet: Polyproline II bio-inspired folded structures based on original spirolactam scaffolds. [O13]

10H15:10H45 Coffee Break & Posters

4. Structural Considerations of Proline-containing Peptides

- 10H45:11H30 <u>Plenary Lecture 4 Jean-Christophe Gelly</u>: Type II PolyProline helix assignment: analysis and sequence structure relationship [PL4] Dynamique des Structures et Interactions des Macromolécules Biologiques (DSIMB), Université Paris Diderot, Paris, France.
- 11H30:11H45 Jean-François Guichou: Rational design of small molecules (proline mimetic): inhibitors of human cyclophilins and HCV replication. [O14]
- 11H45:12H00 Emeric Miclet: Local control of peptide backbone geometry using trifluoromethylated pseudoprolines. [O15]
- **12H00:12H15 Nikolay Pydiura:** Investigation of the structure and mechanisms of action of proline flanked peptides inhibitors of fibrin polymerization. **[O16]**
- 12H15 Concluding Remarks