



International Association for
Protein Structure Analysis and Proteomics

promoting the discovery and exchange of new methods and techniques



Methods in Protein Structural Analysis 2006

Posttranslational Modifications: Analysis and Function

Lille, France, August 29th –September 2nd, 2006

The aim of the conference (MPSA2006) is to bring together scientists involved in the analysis of different posttranscriptional modifications by various approaches with those involved in the study of the biological relevance of these modifications.

Meeting Website: www.univ-lille1.fr/ugsf/PSA

Keynote Lecture

Beyond the Double Helix: Reading and Writing the Histone Code
Allis CD (Rockefeller Univ., USA)

Methylation/Acetylation

Chromatin and Beyond: Detecting Posttranslational Switches in the Human Nucleus by Next-Generation Mass Spectrometry
Kelleher NL (Univ. of Illinois, USA)

Histone Variants and their Modifications

Almouzni G (Section de Recherche, Institut Curie, France)

Phosphorylation

The Complexity of Protein Covalent Modifications: The Challenges and Mass Spectrometry
Burlingame AL (Univ. of California, San Francisco, USA)

Protein Phosphorylation on Tyrosine in Bacteria

Cozzone AJ (Inst. de Pharmacologie et de Biologie Structurale, Lyon, France)

How Phosphorylations Control the Activity of Nuclear Retinoic Acid Receptors

Rochette-Egly C (Inst. de Génétique et de Biologie Moléculaire et Cellulaire, Illkirch, France)

The Deeper Correlations: Single Cell Measures of Kinase Signaling for Mechanistic and Clinical Analyses

Nolan GP (Stanford Univ., USA)

Comparative Analysis of Posttranslational Modified Proteins and Peptides by Mass Spectrometry: New Technology and Applications in the Study of Cell Migration, the Histone Code and Cancer Vaccine Development.

Hunt DW (Univ. Virginia, USA)

Ubiquitination/Sumoylation

Direct Analysis of Ubiquitin Chain Linkages Regulating Proteasomal Degradation and Proteasome Independent Signaling

Kirkpatrick D (Harvard Medical School, USA)

Exploring the Keratinocyte SUMOome

Wilson VG (Texas A&M University, USA)

Structural and Enzymatic Effects of SUMO Modification of E2 Conjugating Enzymes

Sixma TK (Netherlands Cancer Institute, Amsterdam)

Peptide-centric tools for studying protein processing and less drastic modifications

Gevaert K (Ghent University, Belgium)

Glycosylation

Mass Spectrometric Strategies for Determination of Oligosaccharides

Dell A (Imperial College, London, UK)

High-Throughput Glycan Analytics using DNA-Sequencers

Callewaert N (Ghent University, Belgium)

Disease Glycomics and N-Glycan Branching Structures and Functions

Taniguchi N (Osaka University, Japan)

Mass Spectrometry: Structural and Functional Impact

Selective Isolation of Peptides Containing Acidic Modifications using Nanocolumns Containing Titanium Dioxide

Roepstorff P (Univ. of Southern Denmark, Odense, Denmark)

Prolyl Isomerization: A Novel Posttranslational Modification in Cell Signaling, Cancer and Alzheimer's Disease

Lu KP (Harvard Medical School, USA)

Interactions/Function

Conotoxins and the Posttranslational Modification of Secreted Gene Products

Olivera BM (Univ. of Utah, USA)

Mechanism and Consequences of Protein Palmitoylation

Linder ME (Washington Univ. St. Louis, USA)

Protein-Protein Interactions during Oxidative Protein Folding and Quality Control in the Endoplasmic Reticulum

Ruddock LW (University of Oulu, Finland)

Plenary Closing Lecture

Protein Interaction Domains in Cellular Regulation

Pawson T (Samuel Lunenfeld Research Institute, Mount Sinai Hospital, Toronto, Canada)

