

HUPO 2nd Annual & IUBMB XIX World Congress, Montreal 2003 TENTATIVE PROGRAM GRID Oct 8-11, 2003

Revised: September 30th, 2003

Times		Day 1 – Wednesday, October 8		
7:00-18:00	Registration			
7:30-8:00	Poster Set Up			
8:00-8:40	Osamu Hayaishi Lecture: Tony Pawson - Organizing the Cell through Modular Protein Interactions			
8:45-9:25	Kunio Yagi Lecture: Shuh Narumiya - Spatiotemporal Regulation of Cell and Body Functions by Rho and Rho Effectors			
9:25-9:35	Coffee Break, Exhibits & Poster Viewing			
9:35-11:05	Concurrent Sessions			
	Room 1) Proteomics Cell Biology Chair: Kathryn Howell <ul style="list-style-type: none"> • Kathryn Howell (USA) - Towards A Golgi Proteome • Michel Desjardins (Canada) - The phagosome proteome: new paradigms in cellular immunology • Brian Chait (USA) - Proteomic Tools for Directing Cellular Processes 	Room 2) Amino Acid Metabolism in Health and Disease Chair: Philip Newsholme (Ireland) Co-Chair: Margaret Brosnan (Canada) <ul style="list-style-type: none"> • Philip Newsholme (Ireland) - Amino Acids, Insulin Secretion and Type-2 Diabetes • Juan José Cazzulo (Argentina) - Aromatic Amino Acid Catabolism in Trypanosomes • Rui Curi (Brazil) - Role of Glutamine Metabolism in Neutrophil Function 	Room 3) Plant Signal Transduction 1: Protein Kinases and Phosphoprotein Phosphatases Chair: Carol MacKintosh (Scotland) Co-Chair: Greg Moorhead (Canada) <ul style="list-style-type: none"> • Nigel Halford (UK) - Highly Conserved Protein Kinases Regulating Carbon and Amino Acid Metabolism • Carol MacKintosh (UK) - Signalling Pathways that Target Diverse Plant and Human 14-3-3-binding Partners • Steve Huber (USA) - Phosphorylation of Metabolic Enzymes: Effects on Activity, Localization and Degradation 	
	Room 4) Antibody Engineering and Phage Display, Catalytic Antibodies and Recombinant Antibody Technology Chair: Franck Perez (France) Co-Chair: Jean Gariepy (Canada) <ul style="list-style-type: none"> • Franck Perez (France) - The Recombinant Antibody Approach in Cell Biology : "Immunization" with Sub-Cellular Compartments and Use of scFvs as Protein Conformation Sensors in Living Cells • Tse Wen Chang (China) - The Development of Therapeutic Approaches Targeting IgE and mIgE • Claudia De Lorenzo (Italy) - Fully Human Anti-Cancer ImmunoAgents 	Room 5) Biological Energy Transduction Chair: Bridgette Barry (USA) Co-Chair: Bruce Hill (Canada) <ul style="list-style-type: none"> • Bernadette Byrne (UK) - Molecular Architecture of Succinate Dehydrogenase (Complex II) and Reactive Oxygen Species Generation • Bridgette Barry (USA) - Light Reactions in Oxygenic Photosynthesis: Structure, Function, and Dynamics • Les Dutton (USA) - Cofactor Knockout Strategy Disentangles Cooperative Oxidative and Reductive Events in Cytochrome bc1; Elementary Nature of Energy Conversion and Regulation 	Room 6) Homocysteine: Biochemistry, Genetics and Pathology Chair: John Brosnan (Canada) Co-Chair: Rima Rozen (Canada) <ul style="list-style-type: none"> • John Brosnan (Canada) - The Control of Homocysteine Metabolism • Rima Rozen (Canada) - Genetic Risk Factors for Hyperhomocysteinemia: Studies in Humans and Mice • Don Jacobsen (USA) - Vascular Biochemistry of Homocysteine: Implications for Cardiovascular Disease • Nick Greene (UK) - Homocysteine, Folic Acid and Neural Tube Defects 	
11:05-11:15	Break			
11:15-12:45	Concurrent Sessions			
	Room 1) Proteomics, Mass Spectrometry and Quantitation Chair: Alma Burlingame <ul style="list-style-type: none"> • Alma Burlingame - The Relative Merits Of Maldi And Esi Tandem Mass Spectrometry Platforms In Proteomic Scale Protein Identification And Quantitation • Ruedi Aebersold - High throughput quantitative proteomics: progress and challenges • Catherine Fenselau - Adaptation, Application And Comparison Of Three Methods For Comparative Proteomics In Studies Of Drug Resistance 	Room 5) Biological Importance of Protein Phosphatases Chair: Shirish Shenolikar (USA) Co-Chair: Marie Audette (Canada)	Room 3) Plant Signal Transduction 2: Plant Defense Responses Chair: Jacques-Henry Weil (France) Co-Chair: Linda Penn (Canada) <ul style="list-style-type: none"> • Christine Foyer (UK) - The Role of Antioxidant-Mediated Signal Transduction During Stress • Normand Brisson (Canada) - Whirly: a new family of plant transcription factors involved in disease resistance. • Bill Plaxton (Canada) - Phosphite Blocks Phosphate Sensing in Plants and Yeast 	
	Room 4) RNA Interference Chair: Patrick Provost (Canada) Co-Chair: Claude Lazure (Canada)	Room 6) Homocysteine: Biochemistry, Genetics and Pathology – Continued (11:15-11:45) Chair: John Brosnan (Canada) Co-Chair: Rima Rozen (Canada)		

	<ul style="list-style-type: none"> • Amy Kiger (USA) - Genome-Wide RNAi Screens in Drosophila Cells • Patrick Provost (Canada) - Dicer and the RNA Interference (RNAi) Pathway • Traci Hall (USA) - Crystal Structure And Binding Specificity Of An RNA Silencing Suppressor 	<ul style="list-style-type: none"> • Shirish Shenolikar (USA) - Defining the Protein Phosphatase Complex that Regulates Cell Stress and Apoptosis • Tricia Cohen (UK) - Targeting and Regulation of Protein Phosphatase 1: Role in Insulin Action <p>The EMBO Young Investigator Lecture:</p> <ul style="list-style-type: none"> • Isabelle Mansuy (Switzerland) - Protein Phosphatases are Molecular Constraints on Learning and memory • Michel Tremblay (Canada) - Protein Tyrosine Phosphatases as Targets for Human Disease Treatments: From Diabetes and Obesity to Neuronal Regeneration and Cancer 	<ul style="list-style-type: none"> • Nick Greene (UK) - Homocysteine, Folic Acid and Neural Tube Defects
12:45-14:45	Lunch Break, Poster Viewing, Exhibits, Industry-Sponsored Sessions: Invitrogen, Bruker Daltonics		
14:45-16:15	Concurrent Sessions		
	Room 1) Educational Session Session Topic: Mass Spectrometry Session Chair: Stephen Dahms <ul style="list-style-type: none"> • Bob Cotter - Overview of MS developments • David Fenyo - MS data base searching • Jimmy Eng - MS/MS database searching • Richard Johnson - Manual MS/MS interpretation 	Room 2) Capillary Separation Method Chair: Dr. Arthur Moseley (Germany)	Room 3) Proteomes of Plants Chair: Michael Deyholos (Canada)
	Room 4) Functional Proteomics /Protein Interactions Part I Co-Chairs: Daniel Figeys & Mike Tyers	Room 5) Biological Importance of Protein Phosphatases – Continued (14:45-15:15) Chair: Shirish Shenolikar (USA) Co-Chair: Marie Audette (Canada) <ul style="list-style-type: none"> • Michel Tremblay (Canada) - Protein Tyrosine Phosphatases as Targets for Human Disease Treatments: From Diabetes and Obesity to Neuronal Regeneration and Cancer 	Room 6) Medical Proteomics - Neuronal Diseases Chair: Claudio Cuello (Canada)
	Room 7) Technical Innovation - Mass Spectrometry Chair: Pierre Thibault (Canada)		
16:15-16:30	Coffee Break, Exhibits & Poster Viewing		
16:30-18:00	Concurrent Sessions		
	Room 1) Continuation of Educational Sessions above Session Topic: Mass Spectrometry Session Chair: Stephen Dahms <ul style="list-style-type: none"> • Jimmy Eng - MS/MS database searching • Richard Johnson - Manual MS/MS interpretation 	Room 2) Structural Proteomics Chair: Mirek Cygler (Canada)	Room 3) Applications of Mass Spectrometry to Analysis of the Proteome Chair: Mike Moran (Canada) Co-Chair: John Wilkins (Canada) <ul style="list-style-type: none"> • Peter Roepstorff (Denmark) - Assignment of Post Translational Protein Modifications, an Essential Argument for Proteomics • Liang Li (Canada) - Comprehensive Proteome Analysis by Mass Spectrometry • Mike Moran (Canada) - Functional Proteomics Applications in <u>Drug Discovery and Development</u>
	Room 4) Functional Proteomics /Protein Interactions Part II Co-Chairs: Daniel Figeys & Mike Tyers	Room 5) Proteomes of Microbes Chair: Mike Ellison (Canada)	Room 6) HUPO Initiative - Antibodies Chair: Marius Ueffing (Germany) Co-Chair: Stefan Dübel (Braunschweig)
	Room 7) Cell Signalling Chair: Jeff Wrana (Canada)		
18:00-18:50	HUPO Plenary Lecture - John Fenn (USA) - Electrospray Wings for Molecular Elephants		
19:00-21:00	Welcoming Reception		

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Times	Day 2 – Thursday, October 9		
7:00-18:00	Registration		
7:30-8:00	Poster Set Up		
8:00-8:40	CSBMCB Merck-Frosst Lecture: Charles Boone - Large-Scale Mapping of Genetic Networks with Ordered Arrays of Yeast Mutants		
8:45-9:25	IUBMB/PABMB Lecture: Alberto Kornblihtt - Control of Alternative Pre-mRNA Splicing by RNA Pol II Elongation: Faster is not Always Better		
9:25-9:35	Coffee Break, Exhibits & Poster Viewing		
9:35-11:05	Concurrent Sessions		
	<p>Room 1) Global Analysis of Annotation, Structure and Function Chair: Cheryl Arrowsmith (Canada)</p> <ul style="list-style-type: none"> • Cheryl Arrowsmith (Canada) - Structural Proteomics • Eduardo Eyras (UK) - The Comparison of Mouse and Human genomes by Ensembl • Michael Snyder (USA) - Global Analysis Of Biochemical Activities Using Protein Chips 	<p>Room 2) Signaling Molecules in Development Chair: Sarah Childs (Canada) Co-Chair: Ilona Skerjanc (Canada)</p> <ul style="list-style-type: none"> • Hiroshi Hamada (Japan) - Transfer Of Asymmetric Signals During Left-Right Patterning • Sarah Childs (Canada) - Guidance of Angiogenesis in Zebrafish • Andy McMahon (USA) - From Embryo to Adult: The Kidney as a Model System 	<p>Room 3) Molecular Motors Chair: Christine Cremo (USA) Co-Chair: David Litchfield (Canada)</p> <ul style="list-style-type: none"> • Christine Cremo (USA) - Regulation of Smooth and Non-muscle Myosins • Dale Wigley (UK) - Relating Structure to Mechanism in Helicases • Atsuko Iwamoto-Kihara (Japan) - Subunit rotation of ATP synthase in membranes
	<p>Room 4) Rational Drug Design Chair: François Franceschi (USA) Co-Chair: Lynn Howell (Canada)</p> <ul style="list-style-type: none"> • Alexander Mankin (USA) Ribosome as a Drug Target: Defining Potential Sites of Antibiotic Action • François Franceschi (USA) - Structure Based Drug Design of Ribosomal Antibiotics • Emil Pai (Canada) - Old and new drugs against xanthine dehydrogenase/oxidase 	<p>Room 5) Structure and Dynamics of Protein Folding and Misfolding Chair: Valerie Daggett (USA) Co-Chair: Vettai Ananthanarayanan (Canada)</p> <ul style="list-style-type: none"> • Oscar Millett (Canada) - NMR Approaches for the Study of Protein Dynamics and Function • Sergio Ferreira (Brazil) - Protein Misfolding and Human Amyloid Diseases • Valerie Daggett (USA) - Protein Folding/Unfolding at Atomic Resolution 	<p>Room 6) Small GTPases in Cell Migration Chair: Anne Ridley (UK) Co-Chair: Alan Mak (Canada)</p> <ul style="list-style-type: none"> • Anne Ridley (UK) - Rho GTPases: Signalling in Cell Adhesion and Migration • Juan Carlos Lacal (Spain) - Rho GTPases: Signaling and Transcriptional Activation in Cell Transformation and Metastasis • Louis Lim (Singapore) - The Rho Family on the Move
	<p>Room 7) Lipoproteins and Cell Interactions (Peter Dolphin Memorial symposium) Chair: Roger McLeod (Canada) Co-Chair: Catherine Lazier (Canada)</p> <ul style="list-style-type: none"> • Roger McLeod (Canada) - Amino Acid Sequences Within the β1 Domain of Human Apolipoprotein B Mediate Rapid Intracellular Degradation • John Chapman (France) - CETP: A Key Therapeutic Target in Atherogenic Dyslipidemia • Murray Huff (Canada) - Macrophage Foam Cell Formation in Atherosclerosis: Regulation by the Nuclear Hormone Receptors, PPARgamma, LXR and RXR • Jim Owen (UK) - The ApoE-Nitric Oxide Pathway: Anti-Platelet and Anti-Inflammatory 		
11:05-11:15	Break		
11:15-12:45	Concurrent Sessions		
	<p>Room 1) Regulation of Signal Transduction by Lipid Mediators Chair: David Brindley (Canada) Co-Chair: Linda Penn (Canada)</p> <ul style="list-style-type: none"> • Andrew Morris (USA) - Lipid phosphate phosphatase 1 (LPP1) Regulates Lysophosphatidic Acid Signaling in Platelets • Gabor Tigyi (USA) - Computational Approaches to Phospholipid Growth Factor Receptor Structure and Function • David Brindley (Canada) - Cell Signaling by Lipid Phosphates and their Phosphatases 	<p>Room 2) Proteins in Pathology and Therapy Chair: Bill Lennarz (USA) Co-Chair: Bruce Allen (Canada)</p> <ul style="list-style-type: none"> • Renata Piccoli (Italy) - Ribonucleases as Antitumor Agents • Cynthia McMurray (USA) - Hijacking Of Mismatch Repair To Cause DNA Expansion In Human Disease • Nabil Seidah (Canada) - The Proprotein Convertases in Health and Disease 	<p>Room 3) DNA Repair Chair: Susan Lees-Miller (Canada) Co-Chair: Frances Sharom (Canada)</p> <ul style="list-style-type: none"> • Susan Lees-Miller (Canada) - Regulation of Non-Homologous End Joining by Phosphorylation • Shunichi Takeda (Japan) - Repair of Damaged DNA in Vertebrates • Kum Kum Khanna (Australia) - Defective DNA Damage Response and Cancer Risk
	<p>Room 4) Proteomics & Biotechnology Chair: Daniel Chelsky (Canada)</p>	<p>Room 5) Medical Proteomics - Genetic Diseases Chair: Charles Scriver (Canada)</p>	<p>Room 6) Organelle Proteomics Chair: Peter McPherson (Canada)</p>

	Room 7) Lipoproteins and Cell Interactions (Peter Dolphin Memorial Symposium) - Continued (11:15-11:45) Chair: Roger McLeod (Canada) Co-Chair: Catherine Lazier (Canada) • Jim Owen (UK) - The ApoE-Nitric Oxide Pathway: Anti-Platelet and Anti-Inflammatory		
12:45-14:45	Lunch Break, Poster Viewing, Exhibits, Industry-Sponsored Sessions: Amersham, Applied Biosystems		
14:45-16:15	Concurrent Sessions		
	Room 1) Educational Session Session topic: Data Techniques Session Chair: Raymonde Joubert-Caron (France) • Carsten Petersson - Data mining • Trey Ideker - Systems Biology Data • Yutaka Yasui - Design and Analytic Strategies for Discovery of Disease-Specific Protein Profiles • Sorin Draghici - Data analysis to biology	Room 2) HUPO Proteomics Standards Initiative Co-Chair: Weimin Zhu (UK), Rolph Apweiler	Room 3) Biology of Aging (Molecular Gerontology) Chair: Brian Clark (Denmark) Co-Chair: Arun Seth (Canada) • Suresh Rattan (Denmark) - Slowing Down Aging from Within: Applying Hormesis in Biogerontology • Olivier Toussaint (Belgium) - Proteomic, Transcriptomic, Signal Transduction and Functional Studies of Stress-Induced Premature Senescence (SIPS) and Potential Role of SIPS in Human Aging • Stathis Gonos (Greece) - Longevity and Survival Factors Implicated in Human Senescence and Ageing • Bertrand Friguet (France) - Damaged Protein Repair and Degradation During Aging
	Room 4) Technical Innovation - 2D Gels and other gel systems Chair: David W Speicher • Angelika Gorg - 2-D Electrophoresis With Immobilized Ph Gradients: Enhanced Coverage Of The Proteome	Room 5) Medical Proteomics - Heart and Stroke Chair: Peipei Ping (USA)	Room 6) Nanotechnology Chair: Yoshinobu Baba (Japan)
16:15-16:30	Coffee Break, Exhibits & Poster Viewing		
16:30-18:00	Concurrent Sessions		
	Room 1) Continuation of Educational Session above Session topic: Data Techniques Session Chair: Raymonde Joubert-Caron (France) • Yutaka Yasui - Design and Analytic Strategies for Discovery of Disease-Specific Protein Profiles • Sorin Draghici - Data analysis to biology	Room 2) HUPO Initiative - Brain Chair: Helmut Meyer (Germany) • Joachim Klose - Brain Proteome: A Comparative Study of Different Mouse Models for Neurodegenerative Diseases	Room 3) Biology of Aging (Molecular Gerontology) – Continued (16:30-17:00) Chair: Brian Clark (Denmark) Co-Chair: Arun Seth (Canada) • Bertrand Friguet (France) - Damaged Protein Repair and Degradation During Aging
	Room 4) Looking Ahead: A Vision for the Future of Proteomics • Allen Spiegel	Room 5) Medical Proteomics - Cancer Chair: Daniel Chan (USA)	Room 6) Proteomes of Non Human Model Chair: Jerome Garin
	Room 7) Medical Proteomics - Obesity & Diabetes Chair: Barry Posner	Room 8) PSI Meeting - Henning Hermjakob	
18:30 - 19:30	Concert		

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Times	Day 3 - Friday October 10		
7:00-18:00	Registration		
7:30-8:00	Poster Set Up		
8:00-8:40	CSBMCB-Roche Diagnostics Award Lecture: Victor Ling - The Role of Genomics in Cancer Research		
8:45-9:25	Severo Ochoa Lecture: Jean-Marc Égly - TFIIF Enters the Clinic		
9:25-9:35	Coffee Break, Exhibits & Poster Viewing		
9:35-11:05	Concurrent Sessions		
	<p>Room 1) Mice, Proteins and Message</p> <p>Chair: Alex Archakov (Russia)</p> <ul style="list-style-type: none"> • Tak Mak - Genetic Analysis of Apoptotic Pathways • Alex Archakov - Protein-Protein Interactions As A Target For Drugs In Proteomics • Marc Vidal - Integrating "omic" Information: A Bridge between Genomics and Sytems Biology 	<p>Room 2) Biochemistry and Molecular Biology of Severe Acute Respiratory Syndrome (SARS)</p> <p>Chair: Bhagi Singh (Canada) Co-Chair: David Andrews (Canada)</p> <ul style="list-style-type: none"> • Chris Upton (Canada) - SARS Virus: A Bioinformatic Analysis • Rolf Hilgenfeld (Germany) - Structural Studies on Coronavirus Main Proteinases: Basis for the Design of Anti-SARS Drugs • Frank Plummer (Canada) - Science during epidemic: Lessons from SARS 	
	<p>Room 4) Cell Cycle Regulation</p> <p>Chair: Elaine Elion (USA) Co-Chair: Dan Durocher (Canada)</p> <ul style="list-style-type: none"> • Phil Hieter (Canada) - The Yeast Kinetochore Protein Complex and its Role in Genome Stability • Elaine Elion (USA) - Regulatory Links between Scaffold Proteins that Regulate MAPK Cascades and the Actin Cytoskeleton • Sylvain Meloche (Canada) - Regulation of the F-Box Protein Skp2 by Growth Factors and Tumor Suppressors 	<p>Room 5) Mitochondrial Biogenesis and Evolution</p> <p>Chair: Mike Gray (Canada) Co-Chair: Heidi McBride (Canada)</p> <ul style="list-style-type: none"> • Gertraud Burger (Canada) - Diversity and Evolution of Mitochondrial Genome Architecture and Information Content • David Clayton (USA) - Regulating Mitochondrial DNA Replication and Transcription • Mike Gray (Canada) - Diversity and Evolution of Mitochondrial RNA Editing Systems 	<p>Room 6) Education in the Molecular Life Sciences The Central Role of Biochemistry and Molecular Biology</p> <p>Co-Chairs: Cecilia Hidalgo (Chile) and Ellis Bell (USA)</p> <ul style="list-style-type: none"> • Joan Guinovart (Spain) - Bridging the Gap in Biochemistry between Secondary School and University • Yedy Israel (Chile) - An "Inverted Pyramid" Approach to Upgrade Biology Teachers Starts with Newspaper Reports • Robert Learmonth (Australia) - More about Less: Defining the Essential Core • Ellis Bell (USA) - Education in the Molecular Life Sciences: The Central Role of Biochemistry and Molecular Biology
	<p>Room 7) Splicing and Editing of RNA</p> <p>Chair: Liam Keegan (UK) Co-Chair: Benoit Chabot (Canada)</p> <ul style="list-style-type: none"> • Angela Krämer (Switzerland) - Proteins that Function at Early Stages of Spliceosome Assembly • Ron Emeson (USA) - Modulation of A-to-I Editing by Functional Nucleolar Sequestration • Barbara Sollner-Webb (USA) - Roles of the Proteins in the Trypanosome RNA Editing Complex • Liam Keegan (UK) - Editing Flies to Death 		
11:05-11:15	Break		
11:15-12:45	Concurrent Sessions		
	<p>Room 1) Proteomics: past, present and the future</p> <p>Chair: Samir Hanash (USA)</p> <ul style="list-style-type: none"> • Samir Hanash (USA) - Opportunities For Major Initiatives In Proteomics • Thierry Rabilloud - Analytical challenges in proteomics • Denis Hochstrasser - The Five Dimensions Of Disease 	<p>Room 2) Integration of Signaling Pathways</p> <p>Chair: John Scott (USA) Co-Chair: Carlos Fernandez-Patron (Canada)</p> <ul style="list-style-type: none"> • Maggie Harnett (UK) - Functional Responses to BCR-Mediated Signaling Pathways Alter During B Cell Development • Angela Clerk (UK) - Signaling through the Extracellular Signal-Regulated Kinase (ERK) Cascade in Cardiac Myocytes • John Scott (USA) - Molecular Organization of Cytoskeletal Transduction Complexes 	<p>Room 3) In vivo/Whole Body Metabolism by NMR and Spectroscopy</p> <p>Chair: Ian Smith (Canada) Co-Chair: Carolyn Mountford (Australia)</p> <ul style="list-style-type: none"> • Ian Smith (Canada) - A Spectroscopic Approach to the Early Diagnosis of Colon Cancer: NMR and IR • Carolyn Mountford (Australia) - MRS is in the Clinic and improving Patient Management • Robert Bartha (Canada) - 1H MR spectroscopy and 23Na MR imaging correlates of tissue damage in cerebral ischemia
	<p>Room 4) Mammalian and Fungal Prions</p> <p>Chair: Roger Morris (UK) Co-Chair: Marica Bakovic (Canada)</p> <ul style="list-style-type: none"> • Jonathan Weissman (USA) - Generation of Prion Transmission Barriers 	<p>Room 5) Transcription: RNA Polymerase and Transcription Factors</p> <p>Chair: Mary Osborn (Germany) Co-Chair: Gilles Lajoie (Canada)</p> <ul style="list-style-type: none"> • Michael Schultz (Canada) - DNA Damage Signaling to the TATA Box Binding Protein 	<p>Room 6) Education in the Molecular Life Sciences: The Central Role of Biochemistry and Molecular Biology - Continued (11:15-11:45)</p> <p>Co-Chairs: Cecilia Hidalgo (Chile) and Ellis Bell (USA)</p>

	<ul style="list-style-type: none"> • Simone Hornemann (Switzerland) - Structural Comparisons of the Recombinant and Natural Prion Protein • Roger Morris (UK) - The changing membrane environment of mouse prion protein and its influence upon susceptibility to pathogenic conversion 	<ul style="list-style-type: none"> • Caroline Kane (USA) - Regulation of Fcp1p, a Phosphatase that Acts upon RNA Polymerase II in <i>Saccharomyces cerevisiae</i> • Mona Nemer (Canada) - Regulation of Cell Fate by Combinatorial Interactions of Transcription Factors 	<ul style="list-style-type: none"> • Ellis Bell (USA) - Education in the Molecular Life Sciences: The Central Role of Biochemistry and Molecular Biology
	Room 7) Splicing and Editing of RNA - Continued (11:15-12:45) Chair: Liam Keegan (UK) Co-Chair: Benoit Chabot (Canada)		
	<ul style="list-style-type: none"> • Liam Keegan (UK) - Editing Flies to Death 		
12:45-14:45	Lunch Break, Poster Viewing, Exhibits, Industry-Sponsored Sessions: PerkinElmer, Beckman Coulter		
14:45-16:15	Concurrent Sessions		
	Room 1) Educational Session Session Topic: Nanotechnology Session Chair, Stephen Dahms <ul style="list-style-type: none"> • Thomas Laurell - Microfluidics & proteomics • Fred Regnier - Microfluidics & proteomics • Paul Predki - Protein microarrays • Charles Cantor - Final overview inc. education 	Room 2) Informatics - Bioinformatics Part I Chair: Paul Kearney (Canada)	Room 3) Proteomes of Human Tissues Chair: Alex Pshezhetsky (Canada)
	Room 4) Regulation of Myosin II in the Actin Cytoskeleton Chair: Kris Kamm (USA) Co-Chair: Terry Hébert (Canada) <ul style="list-style-type: none"> • Kris Kamm (USA) - Regulation of Myosin Light Chain Kinase in vitro and in vivo • David Hartshorne (USA) - Regulation of Myosin Phosphatase • Kozo Kaibuchi (Japan) - Regulation of Phosphorylation of Myosin Light Chain By Rho 	Room 5) Medical Proteomics - Other Diseases Chair: Rafik Sekaly (Canada)	Room 6) Tissue To Discovery <ul style="list-style-type: none"> • Jim Woodgett (Canada) - Next Generation Microarrays Technology • David Wishart (Canada) - Metabolic Profiling and Functional Proteomics Room 6) Pharmaceutical Proteomics Chair: Stanley Belkowski (USA) <ul style="list-style-type: none"> • Stanley Belkowski - Integration of proteomics with pathology and histology • Mark Molloy (USA) - Proteomics in Drug Discovery and Development
	Room 7) Apoptosis Chair: Jerry Adams (Australia) Co-Chair: Vince Duronio (Canada) <ul style="list-style-type: none"> • Jerry Adams (Australia) - Life and Death Decisions at the Cellular Level • Chris Bleackley (Canada) - Pathways to Granzyme-Induced Death • Bozena Kaminska (Poland) - p53-Dependent and -Independent Apoptosis of Glioma Cells 		
16:15-16:30	Coffee Break, Exhibits & Poster Viewing		
16:30-18:00	Concurrent Sessions		
	Room 1) Continuation of Educational Session above (16:30-17:10) Session Topic: Nanotechnology Session Chair, Thomas Laurell <ul style="list-style-type: none"> • Paul Predki - Protein microarrays • Charles Cantor - Final overview inc. education 	Room 2) Informatics - Bioinformatics Part II Chair: Paul Kearney (Canada)	Room 6) HUPO Initiative - Liver Co-Chairs: Fuchu He (China), Christian Brechot (France)
	Room 4) Local Calcium Signaling Chair: Alexandra Zahradnikova (Slovakia) Co-Chair: Ed Moore (Canada) <ul style="list-style-type: none"> • Mitsu Ikura (Canada) - Structural Basis for Ca²⁺ Signaling • Peter Lipp (Germany) - Inositol Trisphosphate Receptors in the Heart: Trigger the Spark to Corrupt the Heart? • Alexandra Zahradniková (Slovakia) - Calcium Signaling Events in the Cardiac Excitation-Contraction Coupling Unit 	Room 5) Network Proteomics Chair: David Thomas (Canada)	Room 6) HUPO Initiative - Plasma Chair: Gilbert Omenn (USA)
18:00-18:50	HUPO Plenary Lecture - Koichi Tanaka (Japan) - Structural Characterisation of Protein Post-Translational Modifications Using a MALDI OIT TOF Mass Spectrometer		
20:00 - 22:00	Gala Party & Awards Presentations		

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Times	Day 4 – Saturday, October 11		
7:00-12:00	Registration		
8:00-8:40	E.C. Slater Lecture: Suzanne Pfeffer - Regulation of Receptor Trafficking by Rab GTPases		
8:45-10:15	Concurrent Sessions		
	<p>Room 1) Proteomic Signaling Chair: Matthias Mann</p> <ul style="list-style-type: none"> • Matthias Mann - Proteomic investigation of growth factor signaling • Tony Hunter - Protein Phosphorylation And Intracellular Signaling Networks In The Postgenomic Era • Young-Ki Paik - Proteomic Approaches to Cholesterol Metabolism 	<p>Room 2) Translation: Ribosome Structure and Function Chair: Ada Yonath (Israel) Co-Chair: Léa Brakier-Gingras (Canada)</p> <ul style="list-style-type: none"> • Nahum Sonenberg (Canada) - mRNA Recruitment to Ribosomes by Initiation Factors • Tom Steitz (USA) - Structures of tRNA acceptor end mimics bound to the A, P and E sites of the 50S subunit of H. marismortui • Ada Yonath (Israel) - Ribosomal Crystallography: Peptide Bond Formation, Tunnel Gating and Intra-Cellular Regulation 	<p>Room 3) Methods of Proteomic Analysis Chair: Natalie Ann (USA) Co-Chair: Harry Duckworth (Canada)</p> <ul style="list-style-type: none"> • Natalie Ahn (USA) - Functional Proteomic Analysis of Signal Transduction and Disease • Jacques Paiement (Canada) - Proteome of the secretion apparatus in rat liver • Qi-Chang Xia (China) - Proteomic Analysis of Hepatocellular Carcinoma
	<p>Room 4) Phosphoinositide Regulation of the Actin Cytoskeleton and Membrane Trafficking Chair: Helen Yin (USA) Co-Chair: Jean Vacher (Canada)</p> <ul style="list-style-type: none"> • Helen Yin (USA) - Molecular Dissection of the Roles of Phosphatidylinositol Kinases on the Actin Cytoskeleton and Membrane Trafficking by RNA Interference • Tadaomi Takenawa (Japan) - Phosphoinositide-Binding Domains: Their Roles in Intracellular Signaling • Shamshad Cockcroft (UK) - Regulation of Membrane Ruffling by ARF Proteins, Phospholipase D and PIP 5-Kinase in Antigen-Stimulated Mast Cells 	<p>Room 5) Transcription: Chromatin Dynamics Chair: Shigeaki Kato (Japan) Co-Chair: John Th'ng Canada</p> <ul style="list-style-type: none"> • Shigeaki Kato (Japan) - Co-Regulator Complexes for Nuclear Receptors • Karolin Luger (USA) - Structure and Dynamic Behavior of Nucleosomes • Jim Manley (USA) - RNA Processing and the Integration of Nuclear Events 	
10:15-10:30	Coffee Break		
10:30-11:45	<p>Room 1) Looking Ahead: A Vision for the Future of Proteomics</p> <ul style="list-style-type: none"> • Martin Godbout (Genome Canada) • Remi Quirion (INMHA) • Rod McInnes (Institute of Genetics) 	<p>Room 2) Young Scientist Program Chair: Fred Palmer (Canada)</p> <p>10:30 - 11:15 YSP Plenary speaker - Amira Klip Associate Chief and Senior Scientist, The Hospital for Sick Children Research Institute, Professor of Paediatrics, Biochemistry & Physiology, University of Toronto.</p> <p>11:15 - 1:00 7 YSP presentations</p> <p>1:00 - 1:30 Lunch</p> <p>1:30-2:15 YSP Plenary Speaker - Linda Penn Senior Scientist, Division of Cellular and Molecular Biology, Ontario Cancer Institute,</p> <p>2:15 - 4:00 7 YSP presentations</p>	
11:45-1:25	<p>Present & Future NIH Funding Opportunities Chair: Salvatore Sechi (NIDDK)</p> <ul style="list-style-type: none"> • Salvatore Sechi (NIDDK) • Sudhir Srivastava (NCI) • Christine Colvis (NIDA) • Min Song (NCI) 		

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Invited Speakers

Symposium

- Life and Death Decisions at the Cellular Level
Dr. Jerry Adams, Royal Melbourne Hospital, Australia
- High throughput quantitative proteomics: progress and challenges
Dr. Ruedi Aebersold, Institute for Systems Biology, Seattle
- Functional Proteomic Analysis of Signal Transduction and Disease
Dr. Natalie Ahn, University of Colorado
- Protein-Protein Interactions As A Target For Drugs In Proteomics
Dr. Alexander Archakov, Institute of Biomedical Chemistry, Russia
- Structural Proteomics
Dr. Cheryl Arrowsmith, Ontario Cancer Institute
- Light Reactions in Oxygenic Photosynthesis: Structure, Function, and Dynamics
Dr. Bridgette Barry, University of Minnesota
- ¹H MR spectroscopy and ²³Na MR imaging correlates of tissue damage in cerebral ischemia
Dr. Robert Bartha, University of Western Ontario
- Pharmaceutical Proteomics
Dr. Stanley Belkowsky
- Education in the Molecular Life Sciences: The Central Role of Biochemistry and Molecular Biology
Dr. Ellis Bell, University of Richmond, Virginia
- Pathways to Granzyme-Induced Death
Dr. Chris Bleackley, University of Alberta
- Large-Scale Mapping of Genetic Networks with Ordered Arrays of Yeast Mutants
Dr. Charles Boone, University of Toronto
- Cell Signaling by Lipid Phosphates and their Phosphatases
Dr. David Brindley, University of Alberta
- Whirly: a new family of plant transcription factors involved in disease resistance
Dr. Normand Brisson, University of Montreal
- The Control of Homocysteine Metabolism
Dr. John Brosnan, Memorial University, Newfoundland
- Diversity and Evolution of Mitochondrial Genome Architecture and Information Content
Dr. Gertraud Burger, University of Montreal

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- The Relative Merits Of MalDI And ESI Tandem Mass Spectrometry Platforms In Proteomic Scale Protein Identification And Quantitation
Dr. Alma Burlingame, University of California, San Francisco
- Molecular Architecture of Succinate Dehydrogenase (Complex II) and Reactive Oxygen Species Generation
Dr. Bernadette Byrne, Imperial College London, UK
- Aromatic Amino Acid Catabolism in Trypanosomes
Dr. Juan José Cazzulo, Universidad Nacional de General San Martín, Buenos Aires, Argentina
- Proteomic Tools For Directing Cellular Process
Dr. Brian Chait, Rockefeller University
- The Development of Therapeutic Approaches Targeting IgE and mIgE
Dr. Tse Wen Chang, Developmental Center for Biotechnology, Taipei, China
- CETP: A Key Therapeutic Target in Atherogenic Dyslipidemia
Dr. John Chapman, INSERM, Paris, France
- Guidance of Angiogenesis in Zebrafish, Chair
Dr. Sarah Childs
- Regulating Mitochondrial DNA Replication and Transcription
Dr. David Clayton, Howard Hughes Medical Institute, Maryland
- Signaling through the Extracellular Signal-Regulated Kinase (ERK) Cascade in Cardiac Myocytes
Dr. Angela Clerk, Imperial College London, UK
- Regulation of Membrane Ruffling by ARF Proteins, Phospholipase D and PIP 5-Kinase in Antigen-Stimulated Mast Cells
Dr. Shamshad Cockcroft, University College London, UK
- Targeting and Regulation of Protein Phosphatase 1: Role in Insulin Action
Dr. Tricia Cohen, University of Dundee, UK
- Regulation of Smooth and Non-muscle Myosins
Dr. Christine Cremo, University of Nevada, Reno
- Role of Glutamine Metabolism in Neutrophil Function
Dr. Rui Curi, Instituto de Ciencias Biomedicas, Sao Paolo, Brazil
- Protein Folding/Unfolding at Atomic Resolution
Dr. Valerie Daggett, University of Washington
- Fully Human Anti-Cancer ImmunoAgents
Dr. Claudia De Lorenzo, University of Napoli Federico II, Naples, Italy

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- The phagosome proteome: new paradigms in cellular immunology
Dr. Michel Desjardins, University of Montreal
- Cofactor Knockout Strategy Disentangles Cooperative Oxidative and Reductive Events in Cytochrome bc₁; Elementary Nature of Energy Conversion and Regulation
Dr. Les Dutton, University of Pennsylvania
- TFIIH Enters the Clinic
Dr. Jean-Marc Égly, University of Strasbourg, France
- Regulatory Links between Scaffold Proteins that Regulate MAPK Cascades and the Actin Cytoskeleton
Dr. Elaine Elion, Harvard Medical School
- Modulation of A-to-I Editing by Functional Nucleolar Sequestration
Dr. Ron Emeson, Vanderbilt University
- The Comparison Of Mouse And Human Genomes By Ensembl
Dr. Eduardo Eyras, UK
- Electrospray Wings For Molecular Elephants
Dr. John Fenn, Virginia Commonwealth University
- Adaptation, Application And Comparison Of Three Methods For Comparative Proteomics In Studies Of Drug Resistance
Dr. Catherine Fenselau, University of Maryland
- Protein Misfolding and Human Amyloid Diseases
Dr. Sergio Ferreira
- The Role of Antioxidant-Mediated Signal Transduction During Stress
Dr. Christine Foyer, Institute of Arable Crops Research, Herts, UK
- Structure Based Drug Design of Ribosomal Antibiotics
Dr. François Franceschi, Rib-X Pharmaceuticals, New Haven, Connecticut
- Damaged Protein Repair and Degradation During Aging
Dr. Bertrand Friguet, University of Paris 7, France
- Subunit rotation of ATP synthase in membranes
Dr. Atsuko Iwamoto-Kihara, Osaka University, Japan
- Longevity and Survival Factors Implicated in Human Senescence and Ageing
Dr. Stathis Gonos, Institute of Biological Research and Biotechnology, Athens, Greece
- Diversity and Evolution of Mitochondrial RNA Editing Systems
Dr. Mike Gray, Dalhousie University
- Homocysteine, Folic Acid and Neural Tube Defects
Dr. Nick Greene

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- Bridging the Gap in Biochemistry between Secondary School and University
Dr. Joan Guinovart, University of Barcelona, Spain
- Highly Conserved Protein Kinases Regulating Carbon and Amino Acid Metabolism
Dr. Nigel Halford, University of Bristol, UK
- Crystal Structure And Binding Specificity of an RNA Silencing Suppressor
Dr. Traci Hall, USA
- Transfer of Asymmetric Signals During Left-Right Patterning
Dr. Hiroshi Hamada, Osaka University, Japan
- Opportunities For Major Initiatives In Proteomics
Dr. Samir Hanash, University of Michigan
- Functional Responses to BCR-Mediated Signaling Pathways Alter During B Cell Development
Dr. Maggie Harnett, University of Glasgow, UK
- Regulation of Myosin Phosphatase
Dr. David Hartshorne, University of Arizona
- The Yeast Kinetochores Protein Complex and its Role in Genome Stability
Dr. Phil Hieter, University of British Columbia
- Structural Studies on Coronavirus Main Proteinases: Basis for the Design of Anti-SARS Drugs
Dr. Rolf Hilgenfeld, University of Luebeck, Germany
- The Five Dimensions Of Disease
Dr. Denis Hochstrasser, Laboratoire central de chimie clinique, Hôpital Cantonal Universitaire de Genève
- Structural Comparisons of the Recombinant and Natural Prion Protein
Dr. Simone Hornemann, ETH Zurich, Switzerland
- Towards A Golgi Proteome
Dr. Kathryn Howell, University of Colorado Health Sciences Center
- Phosphorylation of Metabolic Enzymes: Effects on Activity, Localization and Degradation
Dr. Steve Huber, North Carolina State University
- Macrophage Foam Cell Formation in Atherosclerosis: Regulation by the Nuclear Hormone Receptors, PPARgamma, LXR and RXR
Dr. Murray Huff, University of Western Ontario
- Protein Phosphorylation And Intracellular Signaling Networks In The Postgenomic Era
Dr. Tony Hunter, Salk Institute for Biological Studies
- Structural Basis for Ca²⁺ Signaling

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Dr. Mitsu Ikura, University of Toronto

- An "Inverted Pyramid" Approach to Upgrade Biology Teachers' Skills that Starts with Newspaper Reports
Dr. Yedy Israel, University of Chile, Santiago, Chile
- Vascular Biochemistry of Homocysteine: Implications for Cardiovascular Disease
Dr. Don Jacobsen, Cleveland Clinic, Ohio
- Regulation Of Phosphorylation Of Myosin Light chain By Rho
Dr. Kozo Kaibuchi, Japan
- p53-Dependent and -Independent Apoptosis of Glioma Cells
Dr. Bozena Kaminska, Nencki Institute, Warsaw, Poland
- Regulation of Myosin Light Chain Kinase in vitro and in vivo
Dr. Kris Kamm, University of Texas Southwestern
- Regulation of Fcp1p, a Phosphatase that Acts upon RNA Polymerase II in *Saccharomyces cerevisiae*
Dr. Caroline Kane, University of California Berkeley
- Co-Regulator Complexes for Nuclear Receptors
Dr. Shigeaki Kato, University of Tokyo, Japan
- Editing Flies to Death
Dr. Liam Keegan, MRC Human Genetics Unit, Edinburgh, Scotland
- Defective DNA Damage Response and Cancer Risk
Dr. Kum Kum Khanna, Queensland Institute of Medical Research, Australia
- Genome-Wide RNAi Screens in *Drosophila* Cells
Dr. Amy Kiger, Harvard Medical School
- YSP Plenary Speaker
Dr. Amira Klip, University of Toronto
- Brain Proteome: A Comparative Study Of Different Mouse Models for Neurodegenerative Diseases
Dr Joachim Klose
- Control of Alternative Pre-mRNA Splicing by RNA Pol II Elongation: Faster is not Always Better
Dr. Alberto Kornblihtt, University of Buenos Aires, Argentina
- Proteins that Function at Early Stages of Spliceosome Assembly
Dr. Angela Krämer, University of Geneva, Switzerland
- Rho GTPases: Signaling and Transcriptional Activation in Cell Transformation and Metastasis
Dr. Juan Carlos Lacal, Instituto de Investigaciones Biomédicas, Madrid, Spain
- More about Less: Defining the Essential Core

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Dr. Robert Learmonth, University of Southern Queensland, Australia

- Regulation of Non-Homologous End Joining by Phosphorylation
Dr. Susan Lees-Miller, University of Calgary
- Comprehensive Proteome Analysis by Mass Spectrometry
Dr. Liang Li, University of Alberta
- The Rho Family on the Move
Dr. Louis Lim, Institute of Molecular and Cell Biology, Singapore
- The Role of Genomics in Cancer Research
Dr. Victor Ling, University of British Columbia
- Inositol Trisphosphate Receptors in the Heart: Trigger the Spark to Corrupt the Heart?
Dr. Peter Lipp, University of the Saarland, Germany
- Structure and Dynamic Behavior of Nucleosomes
Dr. Karolin Luger, Colorado State University
- Signalling Pathways that Target Diverse Plant and Human 14-3-3-binding Partners
Dr. Carol MacKintosh, University of Dundee, Scotland
- Genetic Analysis Of Apoptotic Pathways
Dr. Tak Mak, University of Toronto
- RNA Processing and the Integration of Nuclear Events
Dr. Jim Manley, Columbia University
- Proteomic Investigation Of Growth Factor Signaling
Dr. Matthias Mann, University of Southern Denmark - Odense
- Protein Phosphatases are Molecular Constraints on Learning and Memory
Dr. Isabelle Mansuy, Swiss Federal Institute of Technology, Zurich, Switzerland
- Lipoproteins and Cell Interactions (Peter Dolphin Memorial Symposium), Chair
Dr. Roger McLeod
- From Embryo to Adult: The Kidney as a Model System
Dr. Andy McMahon, Harvard University
- Hijacking Of Mismatch Repair To Cause Dna Expansion In Human Disease
Dr. Cynthia McMurray
- Regulation of the F-Box Protein Skp2 by Growth Factors and Tumor Suppressors
Dr. Sylvain Meloche, Clinical Research Institute of Montreal
- NMR Approaches for the Study of Protein Dynamics and Function
Dr. Oscar Millet

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- Pharmaceutical Proteomics
Dr. Mark Molloy, Pfizer
- Functional Proteomics Applications in Drug Discovery and Development
Dr. Mike Moran, MDS Proteomics, Toronto
- Lipid phosphate phosphatase 1 (LPP1) Regulates Lysophosphatidic Acid Signaling in Platelets
Dr. Andrew Morris, University of North Carolina
- The Changing Membrane Environment of Mouse Prion Protein and its Influence upon Susceptibility to Pathogenic Conversion
Dr. Roger Morris, King's College London, UK
- MRS is in the Clinic and improving Patient Management
Dr. Carolyn Mountford, University of Sydney, Australia
- Spatiotemporal Regulation of Cell and Body Functions by Rho and Rho Effectors
Dr. Shuh Narumiya, Kyoto University, Japan
- Regulation of Cell Fate by Combinatorial Interactions of Transcription Factors
Dr. Mona Nemer, Clinical Research Institute of Montreal
- Amino Acids, Insulin Secretion and Type-2 Diabetes
Dr. Philip Newsholme, University College Dublin, Ireland
- The ApoE-Nitric Oxide Pathway: Anti-Platelet and Anti-Inflammatory
Dr. Jim Owen, University College London, UK
- Old and new drugs against xanthine dehydrogenase/oxidase
Dr Emil Pai
- Proteome Of The Secretion Apparatus In Rat Liver
Dr. Jacques Paiement, University of Montreal
- Proteomic Approaches to Cholesterol Metabolism
Dr. Young-Ki Paik, The Korean Human Proteome Organization (KHUPO)
- Organizing the Cell through Modular Protein Interactions
Dr. Tony Pawson, University of Toronto
- Young Scientist Program Plenary Speaker
Dr. Linda Penn, Ontario Cancer Institute
- Exploiting Phage and Yeast Display Technologies for Building High Affinity Human Antibodies
Dr. Franck Perez, Institut Curie, France
- Regulation of Receptor Trafficking by Rab GTPases
Dr. Suzanne Pfeffer, Stanford University

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- Ribonucleases as Antitumor Agents
Dr. Renata Piccoli, University of Napoli Federico II, Naples, Italy
- Phosphite Blocks Phosphate Sensing in Plants and Yeast
Dr. Bill Plaxton, Queen's University
- Science During Epidemic - Lessons from SARS
Dr. Frank Plummer, University of Manitoba
- Dicer and the RNA Interference (RNAi) Pathway
Dr. Patrick Provost, Laval University
- Analytical challenges in Proteomics
Dr. Thierry Rabilloud
- Slowing Down Aging from Within: Applying Hormesis in Biogerontology
Dr. Suresh Rattan, University of Aarhus, Denmark
- Rho GTPases: Signalling in Cell Adhesion and Migration
Dr. Anne Ridley, University College London, UK
- Assignment of Post Translational Protein Modifications, an Essential Argument for Proteomics
Dr. Peter Roepstorff, University of Southern Denmark, Odense, Denmark
- Genetic Risk Factors for Hyperhomocysteinemia: Studies in Humans and Mice
Dr. Rima Rozen, McGill University
- DNA Damage Signaling to the TATA Box Binding Protein
Dr. Michael Schultz, University of Alberta
- Molecular Organization of Cytoskeletal Transduction Complexes
Dr. John Scott, Oregon Health Science University
- NIH Initiatives In Proteomics
Dr. Salvatore Sechi, NIDDK
- The Proprotein Convertases in Health and Disease
Dr. Nabil Seidah, Clinical Research Institute of Montreal
- Defining the Protein Phosphatase Complex that Regulates Cell Stress and Apoptosis
Dr. Shirish Shenolikar, Duke University
- A Spectroscopic Approach to the Early Diagnosis of Colon Cancer: NMR and IR
Dr. Ian Smith, University of Manitoba
- Global Analysis Of Biochemical Activities Using Protein Chips
Dr. Michael Snyder, Yale University

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- Roles of the Proteins in the Trypanosome RNA Editing Complex
Dr. Barbara Sollner-Webb, Johns Hopkins University
- mRNA Recruitment to Ribosomes by Initiation Factors
Dr. Nahum Sonenberg, McGill University
- NIH Initiatives In Proteomics
Dr. Sudhir Srivastava, NCI
- Structures of tRNA acceptor end mimics bound to the A, P and E sites of the 50S subunit of *H. marismortui*
Dr. Tom Steitz, Yale University
- Repair of Damaged DNA in Vertebrates
Dr. Shunichi Takeda, Kyoto University, Japan
- Phosphoinositide-Binding Domains: Their Roles in Intracellular Signaling
Dr. Tadaomi Takenawa, University of Tokyo, Japan
- Structural Characterisation of Protein Post-Translational Modifications Using a MALDI QIT TOF Mass Spectrometer
Dr. Koichi Tanaka, Shimadzu, Japan
- Computational Approaches to Phospholipid Growth Factor Receptor Structure and Function
Dr. Gabor Tigyi, University of Tennessee
- Proteomic, Transcriptomic, Signal Transduction and Functional Studies of Stress-Induced Premature Senescence (SIPS) and Potential Role of SIPS in Human Aging
Dr. Olivier Toussaint, University of Namur, Belgium
- Protein Tyrosine Phosphatases as Targets for Human Disease Treatments: From Diabetes and Obesity to Neuronal Regeneration and Cancer
Dr. Michel Tremblay, McGill University
- SARS Virus: A Bioinformatic Analysis
Dr. Chris Upton, University of Victoria
- Integrating "omic" information: a bridge between genomics and systems biology
Dr. Marc Vidal, Harvard University
- Mutational Control of Amyloid Conformations: Implications for the Generation of Prion Transmission Barriers
Dr. Johnathan Weissman, University of California San Francisco
- Relating Structure to Mechanism in Helicases
Dr. Dale Wigley, London Research Institute, South Mimms, Herts, UK
- Proteomic Analysis of Hepatocellular Carcinoma
Dr. Qi-Chang Xia, Shanghai Institute for Biological Sciences, China

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- Molecular Dissection of the Roles of Phosphatidylinositol Kinases on the Actin Cytoskeleton and Membrane Trafficking by RNA Interference
Dr. Helen Yin, University of Texas Southwestern
- Ribosomal Crystallography: Peptide Bond Formation, Tunnel Gating and Intra-Cellular Regulation
Dr. Ada Yonath, Weizmann Institute, Israel
- Calcium Signaling Events in the Cardiac Excitation-Contraction Coupling Unit
Dr. Alexandra Zahradníková, Institute of Molecular Physiology and Genetics, Bratislava, Slovakia

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Educational Sessions

Session Topic **Mass Spectrometry**

Session Chair **Dr. Stephen Dahms**

Overview of MS developments
MS data base searching
MS/MS database searching
Manual MS/MS interpretation

San Diego State University College of Sciences

Dr. Bob Cotter Johns Hopkins Medical Institute - Plenary Lecture
Dr. David Fenyo Amersham
Dr. Jimmy Eng Systems Biology
Dr. Richard Johnson AMGEN corporation

Session Topic **Data Techniques**

Session Chair **Dr. Raymonde Joubert-Caron**L'Université Paris 13, Bobigny France

Data mining.
Systems Biology Data Techniques .
Design and analytic strategies for
discovery of disease specific
protein profiles.
From data analysis to biology.

Dr. Carsten Petersson Lund University
Dr. Trey Ideker Whitehead Institute

Dr. Yutaka Yasui Fred Hutchinson Cancer Research Center, Seattle.
Dr. Sorin Draghici Wayne State University

Session Topic **Nanotechnology**

Session Chair **Dr. Thomas Laurell**

Microfluidics and proteomics
Microfluidics and proteomics
Protein microarrays
Final overview inc. Education

Lund University, Sweden

Dr. Thomas Laurell Lund University, Sweden
Dr. Fred Regnier Purdue University
Dr. Paul Predki Yale University
Dr. Charles Cantor Sequenom Inc

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Abstract Sessions (Oral and / or Poster Presentations)

<u>Categories</u>	<u>Session Chair</u>	<u>Affiliation</u>
<ul style="list-style-type: none"> Cell Signaling 	Dr. Jeff Wrana	University of Toronto Samuel Lunenfeld Research Institute
<ul style="list-style-type: none"> Informatics <ul style="list-style-type: none"> - Bioinformatics 	Dr. Paul Kearney	Caprion Pharmaceuticals
<ul style="list-style-type: none"> HUPO Initiative <ul style="list-style-type: none"> - Liver - Plasma - Brain - Bioinformatics - Antibodies - Proteomics Standards 	Dr. John Bergeron Dr. Gilbert Omenn Dr. Helmut Meyer Dr. Rolf Apweiler Dr. Marius Ueffing & Dr. Stefan Dübel Dr. Weimin Zhu	McGill University University of Michigan RUHR - University Bochum - Germany Institute of Biochemistry and Biotechnology European Bioinformatics Institute GSF - National Research Center for Environment and Health - Germany Technical University of Braunschweig European Bioinformatics Institute
<ul style="list-style-type: none"> Protein-Protein Interactions 	Dr. Mike Tyers	The Samuel Lunenfeld Research Institute
<ul style="list-style-type: none"> Proteomics & Biotechnology Nanotechnology 	Dr. Daniel Chelsky Dr. Yoshinobu Baba	Caprion Pharmaceuticals The University of Tokushima, Japan
<ul style="list-style-type: none"> Medical Proteomics- Clinical Applications <ul style="list-style-type: none"> - Cancer - Genetic Diseases 	Dr. Daniel Chan Dr. Charles Scriver	Johns Hopkins Medical Institutions McGill University

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|--|--|---|
| <ul style="list-style-type: none">- Obesity & Diabetes- Heart & Stroke- Neuronal Disease- Other Diseases | Dr. Barry Posner
Dr. Peipei Ping
Dr. Claudio Cuello
Dr. Rafik Sekaly | McGill University
David Geffen School of Medicine, UCLA
McGill University
University of Montreal |
| <ul style="list-style-type: none">• Technical Innovations<ul style="list-style-type: none">- Mass Spectrometry- 2D-gels and other gel systems | Dr. Pierre Thibault
Dr. David W Speicher | Caprion Pharmaceutical
The Wistar Institute |
| <ul style="list-style-type: none">• Capillary Separation Method | Dr. Arthur Moseley | GlaxoSmithKline |
| <ul style="list-style-type: none">• Proteomes of Microbes• Proteomes of Human Tissues• Proteomes of Plants• Proteomes of Non-Human Model | Dr. Mike Ellison
Dr. Alexei Pshezhetsky
Dr. Michael Deyholos
Dr. Jérôme Garin | University of Alberta - Institute for Biomolecular Design
University of Montreal
University of Alberta
Institut de recherche pour le développement |
| <ul style="list-style-type: none">• Functional Proteomics• Structural Proteomics• Organelle Proteomics• Network Proteomics | Dr. Daniel Figeys
Dr. Mirek Cygler
Dr. Peter McPherson
Dr. Dave Thomas | MDS-Proteomics
Biotechnology Research Institute, NRC
McGill University
McGill University |
| <ul style="list-style-type: none">• Combining Genomics & Proteomics• Metabolomics | Dr. Jim Woodgett
Dr. David Wishart | University of Toronto
University of Alberta |

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Additional Abstract Submission Categories (Poster Presentations only)

- Gene structure, function and regulation
- Metabolic regulation and metabolic engineering in health and disease
- Molecular medicine
- Molecular structure, simulation and evolution
- Education in the molecular life sciences
- Antimicrobial strategies
- Rational drug design
- The machinery for protein degradation
- Antibody engineering
- Transport, trafficking and endocytosis
- Membrane protein structure and dynamics
- Membrane receptors: From structure to function
- Regulation of signal transduction by lipid mediators
- Biological energy transduction
- Mitochondrial biogenesis and evolution
- Lipid rafts and caveolae
- Molecular basis of developmental biology
- Proteins in pathology and therapy
- Apoptosis
- Cell cycle regulation
- Enzyme catalysis and regulation
- Protein folding and misfolding
- Informatics - Chemoinformatics
- Pharmaceutical Drug Discovery
- Toxic Proteomics
- Chemoproteomics
- Novel Diagnostics
- Inhibitors in Discovery Biology
- Technical Innovations
 - Training and Education
 - Tissue Microarrays
 - Proteomics Facilities
 - Post Translational Modifications

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Visionaries

- Dr. Martin Godbout *Genome Canada*
- Dr. Allen Spiegel *National Institutes of Health*
- Dr. Rod McInnes *Institute of Genetics*
- Dr. Remi Quirion *INMHA*

NIH Initiatives

- Dr. Salvatore Sechi *NIDDK*
- Dr. Sudhir Srivastava *NCI*
- Dr. Christine Colvis *NIDA*
- Dr. Min Song *NCI*