

1st Workshop of Human Kidney and Urine Proteome Project

Standardization of Sample Preparation and Assessment of Proteomic Methods

Wednesday, November 15, 2006

19:00 pm – 21:30 pm

Room: Santa Rosa

Marriott Hotel & Marina

333 West Harbor Drive

San Diego, CA 92101

Attendance fee: \$20

Opening remarks

19:00-19:05 (5 min)

Project and organization

Tadashi Yamamoto; Niigata University, Niigata, Japan

Overview

Chair: Tadashi Yamamoto, Niigata University, Niigata, Japan

19:05-19:35 (30 min)

Kidney and urine proteomics

Jon B Klein

University of Louisville, Louisville, SA, U.S.A.

Kidney and urine proteome

Chair: Mark A Knepper; NHLBI, NIH, Bethesda, MD, U.S.A.

Robyn G Langham; University of Melbourne, Melbourne, Australia

Pierre Ronco;INSERM 702, Paris, France

19:35-19:45 (10 min)

Quantitative phosphoproteomics of IMCD cells: Regulation of aquaporin-2 phosphorylation at two sites

Jason Hoffert

NHLBI, NIH, Bethesda, U.S.A.

19:45-19:55 (10 min)

Profiling of glomerulus proteome of normal human kidney: Proteomic approach by 2D protein prefractionation and LC-MS/MS

Yutaka Yoshida, Masahito Miyamoto, and Tadashi Yamamoto

Niigata University, Niigata, Japan

Coffee break (10 min)

20:05-20:15 (10 min)

Galectin 1, a biomarker for renal cell cancer

Gerhard A Müller

University of Göttingen, Göttingen, Germany

20:15-20:25 (10 min)

High resolution urinary proteome analysis by capillary-electrophoresis coupled mass spectrometry for clinical/diagnostic application

Harald Mischak

Mosaiques Diagnostics and Therapeutics AG, Hanover, Germany

20:25-21:35 (10 min)

Urinary Exosomes: Promise and Practicality

Trairak Pisitkun, Patricia Gonzales, Rong-Fong Shen, and Mark A. Knepper
NHLBI, NIH, Bethesda, MD, U.S.A.

20:35-20:45 (10 min)

Systematic evaluation of sample preparation methods for gel-based human urinary proteomics

Visith Thongboonkerd
FRCPT Siriraj Hospital, Mahidol University, Bangkok, Thailand

20:45-20:55 (10 min)

MI2DG: A web-based resource to share details of sample preparation for analysis of urine and kidney proteomes by 2DE

John M Arthur, Michael G. Janech and Jonas S. Almeida
Medical University of South Carolina, Charleston, SC and University of Texas MD Anderson Cancer Center, Houston, TX, U.S.A.

20:55-21:05 (10 min)

Characterization and standardization of the urinary proteome by two complementary proteomic approaches : 2-D PAGE combined to MS and SELDI-TOF-MS.

Loreto Gesualdo¹, Massimo Papale¹, Marta Centra¹, Maria Teresa Rocchetti¹, Grazia Bortone¹, Clelia Praticchizzo¹, Elena Ranieri¹, Carmen Palermo², Diego Centonze², Bradley J. Thatcher³, and Salvatore Di Paolo⁴

¹Molecular Medicine Center, Section of Nephrology, Department of Biomedical Sciences and Bioagromed, Faculty of Medicine, University of Foggia, Foggia, ²Department of Analytical Sciences and Bioagromed, Faculty of Agricultural Sciences, University of Foggia, Foggia, ³Ciphergen Biosystems , ProteinChip Demo Lab, Naples, ⁴Department of Emergency and Organ Transplants, Section of Nephrology, University of Bari, Italy.

21:05-21:15 (10 min)

Urinary profiling by MALDI MS and preparative 2DE-based approaches: Optimizing protein sample preparation

P. Zerefos¹, J. Prados², A. Kalousis², K. Stravodimos³, M. Fountoulakis⁴, and A. Vlahou¹

¹Foundation for Biomedical Research of the Academy of Athens, Greece, ²University of Geneva, Switzerland, ³Urologic Clinic, Laikon Hospital, Medical School of Athens, Greece, ⁴Hoffmann- La Roche, Switzerland

Free discussion

21:15-21:30 (15 min)

To presenters

1. Only LCD computer projector is used for all presentations. We would like to ask you to bring your own laptop computer or bring a USB memory stick in which your presentation file is saved. For the workshop, laptop computers will be prepared which runs Windows XP and PowerPoint 2003.
2. It would be greatly appreciated if you could agree to save your presentation file in our computers for further discussion after the workshop.