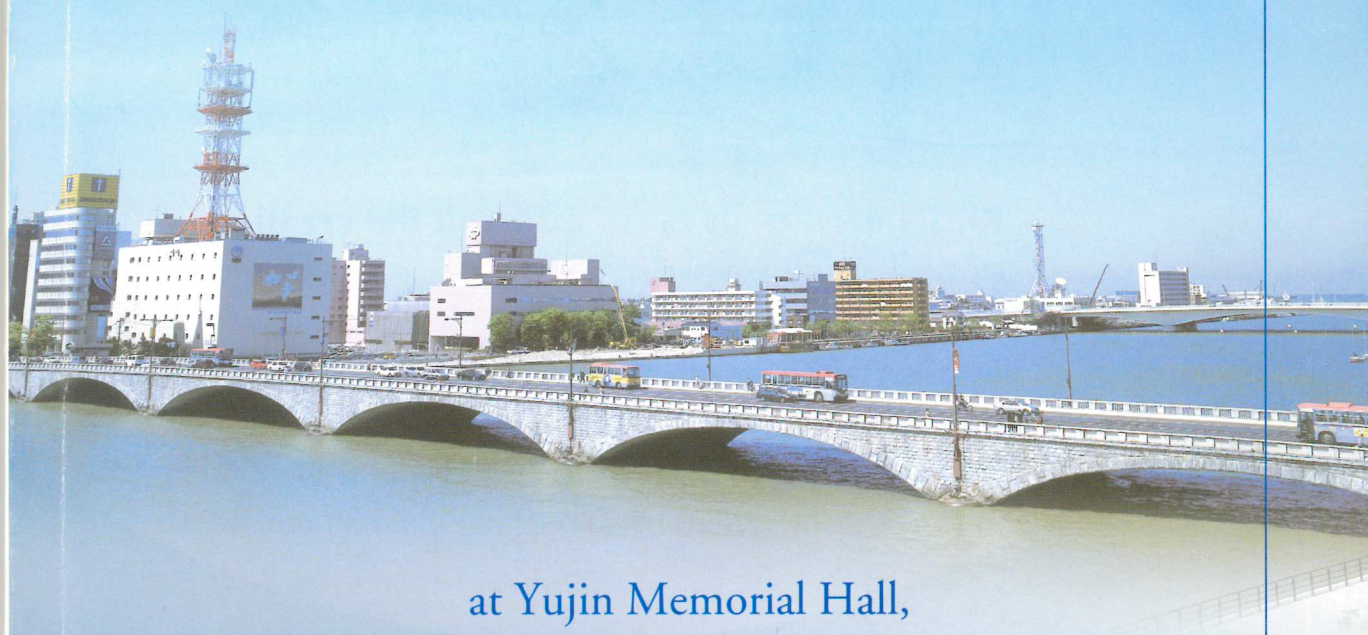


# **I<sup>4<sup>th</sup></sup> International Symposium on Podocyte Biology**

September 19-20 , 2002



at Yujin Memorial Hall,  
Niigata, Japan

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*Welcome to*  
*4th International Symposium*  
*on Podocyte Biology*

Organizing Committee:

**Fujio Shimizu, MD, PhD**  
**Hiroshi Kawachi, MD, PhD**

Department of Cell Biology, Institute of Nephrology,  
Niigata University Graduate School of Medical and Dental Sciences

**Masanori Hara, MD, PhD**

Department of Pediatrics, Yoshida Hospital

**Katsuyuki Matsui, MD, PhD**

Department of Internal Medicine, Teikyo University School of Medicine

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# AGENDA

Thursday, September 19, 2002

8:30 Welcome Address *Kiyoshi Kurokawa*  
Opening Address *Fujio Shimizu*

## Session 1: Novel Findings from Cultured Podocyte

◆Chairs: *Wilhelm Kriz and Tatsuo Sakai*

8:40

*Hidetake Kurihara*

ASIP, TJ Protein, ↓ in Neph. Synd.   
 → maintains boundary between capillaries  
 → at base of slit diaphragm channel

Intercellular junction formation of podocyte in vivo and in vitro

9:05

*Peter Mathieson*

Novel insights from cultured human podocytes

9:30

*David B. Kershaw*

Podocalyxin interactions and podocyte structure

9:55 - 10:25

**Coffee Break**

## Session 2: Responses of Podocyte to Extracellular Matrix

◆Chairs: *Roger Wiggins and Masanori Hara*

10:25

*Matthias Krezler*

GBM-cytoskeletal interaction in podocytes

10:50

*Jeffrey H. Miner*

Podocyte responses to aberrant glomerular basement membrane composition

11:15

*Dontcho Kerjaschki*

Podocyte domains

11:40-12:00

**Photos**

12:00-13:20

**Luncheon Seminar (I)**

*David J. Salant (chaired by Masaaki Arakawa)*

Altered integrity of the podocyte: Implications for the pathogenesis of acquired forms of nephrotic syndrome



## AGENDA

*desmin = podocyte injury marker*

### Session 3: Responses of Podocyte to Cytokines and ROS

◆Chairs: *Stuart J. Shankland and Tadashi Yamamoto*

- 13:20 *Jan Aten* *↑ heparanase in MCNS*  
Direct modulation of the function of glomerular visceral epithelial cells by cytokines and growth factors
- 13:45 *Jürgen Floege* *PODocyte injury prevents anti-Tbx1 disease*  
The central role of growth factors in modulating podocyte damage
- 14:10 *Herman Pavenstädt*  
Radical oxygen species and podocyte function

14:35-15:05 **Coffee Break**

### Session 4: Responses of Podocyte to Toxic Factors

◆Chairs: *Peter Mundel and Naoto Kobayashi*

*stretch-induced genes: osteopontin, calmodulin; ↓ transglutamin*

- 15:05 *Karlhans Endlich*  
Gene expression in podocytes in response to mechanical stress
- 15:30 *William E. Smoyer* *Dex protects podocytes from PAN, enhances recovery*  
Direct glucocorticoid-induced protection of cultured podocytes from toxic injury
- 15:55 *Mauro Abbate*  
Gene activation and loss of differentiated phenotype in podocyte exposed to protein overload
- 16:20 *Stuart J. Shankland*  
Response of podocytes to injury
- 16:45 *Announcement on 5th Symposium By Wilhelm Kriz*
- 17:15 - *POSTER SESSION (with Dinner)*

## Friday, September 20, 2002

## Session 5: Essential Molecules of Slit Diaphragm

◆Chairs: *Harry Holthöfer and Michio Nagata*

- 8:30 *Laurence Heidet*  
Podocin in kidney diseases
- 8:55 *Martin Pollak*  
Biology of alpha-actinin-4
- 9:20 *Andrey S. Shaw*  
The role of CD2AP in glomerular function

9:45 -10:10 **Coffee Break**

## Session 6: Interaction of Slit Diaphragm Associated Molecules

◆Chairs: *Herman Pavenstädt and Eishin Yaoita*

- 10:10 *Harry Holthöfer*  
Nephrin-like genes in glomerular biology
- 10:35 *Lawrence Holzman*  
The cell biology of protocadherin FAT1
- 11:00 *Hiroshi Kawachi*  
Expression of slit diaphragm associated proteins in proteinuric states and developing glomeruli
- 11:25 *Thomas Benzing*  
Constitutive signaling from the slit diaphragm

11:50-13:10 **Luncheon Seminar (II)**

*Karl Tryggvason (chaired by Itaru Kihara)*  
Molecular structure of the glomerular filtration barrier

## Session 7: Podocyte Injury by Antibodies

◆Chairs: *Iekuni Ichikawa and Enyu Imai*

- 13:10 *Andry V. Cybulsky*  
Complement-induced glomerular epithelial cell injury:  
role of cytosolic phospholipase A2 and ER stress proteins

- 13:35 *Pierre Ronco*  
Antenatal membranous glomerulonephritis with vascular injury due to anti-neutral endopeptidase antibodies: Towards new concepts in the pathogenesis of glomerular diseases
- 14:00 *Taiji Matsusaka*  
Establishment of a transgenic mouse model that allows experimental time-, site-, magnitude-selective damage of podocytes that is followed by glomerular sclerosis
- 14:25-14:40 *what cytokine antibody*  
**Coffee Break**
- Session 8: Central Roles of Podocyte in Renal Lesions**  
◆Chairs: *Dontscho Kerjaschki and Katsuyuki Matsui*
- 14:40 *Peter Mundel*  
The role of synaptopodin in modulating the severity and progression of glomerular disease
- 15:05 *Wilhelm Kriz*  
Nephron degeneration starting from glomerular diseases
- 15:30 *Roger Wiggins*  
The podocyte and the aging process
- 15:55 Closing Address *Hiroshi Kawachi*
- 16:10 *Departure to Yahiko*

**Yahiko Shrine Tour and  
Farewell Dinner at Yahiko Spa**

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