

# Poster Session 1

Friday, April 16

12:30-14:00

## F-1-1 Basic Science: Cell growth, cell proliferation, apoptosis

**Chairs:** Michio Nagata, *Japan*; Hitoshi Sugiyama, *Japan*

- F-1-1-1 Reduction of renal fibrosis by calcium channel blockers, cilnidipine and amlodipine, via multiple mechanisms  
Keiichiro Mishima, *Japan*
- F-1-1-2 Treatment with high-dose angiotensin blocker regresses adriamycin-induced glomerulosclerosis and albuminuria  
Kaori Hayashi, *Japan*
- F-1-1-3 Regression of superficial glomerular podocyte injury in type 2 diabetic rats with overt proteinuria: effect of angiotensin II blockade  
Akira Nishiyama, *Japan*
- F-1-1-4 Down regulation of p27 and up regulation of cyclin D2 are associated with uremia-induced left ventricular hypertrophy  
Hironori Nakamura, *Japan*
- F-1-1-5 Increased urinary excretion of IGFBP-2 mRNA and protein in IgA nephropathy patients  
Hidehiko Fujinaka, *Japan*
- F-1-1-6 A study on the polyol pathway of the podocyte in culture, particularly on marked production of fructose in high glucose conditions  
Seiichi Fukuda, *Japan*
- F-1-1-7 Indoxyl sulfate-induced epithelial-to-mesenchymal transition and apoptosis of renal tubular cells as a novel mechanism of progression of renal disease  
Su-Hyun Kim, *Korea*
- F-1-1-8 The evaluation of renal senescence and its retardation by the reduction of carbonyl stress  
Yoichiro Ikeda, *Japan*
- F-1-1-9 Kallikrein-kinin system is involved in podocyte apoptosis under diabetic conditions  
Shin-Wook Kang, *Korea*
- F-1-1-10 The impact of translationally controlled tumor protein on the podocyte hypertrophy under diabetic conditions  
Jung Tak Park, *Korea*
- F-1-1-11 Roles of M phase modulators in hyperplasia of epithelial cells after subtotal nephrectomy  
Satoshi Masuda, *Japan*
- F-1-1-12 Actin-related protein 3 plays a role in formation of filopodia and cell migration after scratching in cultured renal tubular epithelium  
Hiroyuki Morita, *Japan*
- F-1-1-13 Tilting the balance of tubule cell fate toward survival contributes to protective effects of delayed ischemic preconditioning in kidney  
Suhua Jiang, *China*
- F-1-1-14 Silencing hypoxia inducible factor-1 $\alpha$  gene aggravates growth inhibition and necrosis of human proximal renal tubular epithelial cell under hypoxia  
Suhua Jiang, *China*
- F-1-1-15 Aldosterone induces renal proximal tubular cell senescence  
Daisuke Nakano, *Japan*

## F-2-1 Basic Science: Cell signaling and mediators I

**Chairs:** Shunya Uchida, *Japan*; Tadashi Yamamoto, *Japan*

- F-2-1-1 High sodium augments angiotensin II-induced proliferation of rat vascular smooth muscle cell through ERK1/2-dependent pathway  
Hirofumi Hitomi, *Japan*

- F-2-1-2 Prorenin induces vascular smooth muscle cell proliferation and hypertrophy via EGF receptor-mediated ERK and Akt activation pathway  
Hirofumi Hitomi, *Japan*
- F-2-1-3 Efonidipine suppressed renal fibrosis more effectively than nifedipine by suppression of fibrogenic signaling through mineralocorticoid receptor  
Tatsuhiko Mori, *Japan*
- F-2-1-4 Spleen tyrosine kinase as a mediator in tumor necrosis factor- $\alpha$ -induced endothelin-1 upregulation in cultured human aortic endothelial cells  
Yoon Ji Kim, *Korea*
- F-2-1-5 Blockade of TLR9 signaling by Fc $\alpha$  RI targeting prevents the development of glomerulonephritis  
Tomonari Watanabe, *Japan*
- F-2-1-6 The role of SIRP $\alpha$  in podocyte structure and function  
Mai Tomioka, *Japan*
- F-2-1-7 Physiological levels of prorenin and (pro)renin receptor influences the expression of slit diaphragm proteins in human podocytes  
Mariyo Sakoda, *Japan*
- F-2-1-8 Genome-wide analysis of hypoxic inducible factor 1 binding sites in human endothelial cells under hypoxia  
Imari Mimura, *Japan*
- F-2-1-9 Podocyte-specific expression of tamoxifen-inducible Cre recombinase in mice  
Hideki Yokoi, *Japan*
- F-2-1-10 Urinary podocytes isolation and functional analysis in glomerular diseases  
Akira Hiwatashi, *Japan*
- F-2-1-11 Genome-wide association study of IgA nephropathy using 23,465 microsatellite markers  
Sanae Saka, *Japan*
- F-2-1-12 Pathogenic pathways activated by circulating high molecular weight rage ligands present in patients with type 2 diabetes and nephropathy  
Sally A. Penfold, *Australia*
- F-2-1-13 Uremic toxins induce oxidative stress in human endothelial cells via a TFAM/NRF independent pathway  
Jin B. Chen, *Taiwan*
- F-2-1-14 Prostacyclin analog ONO-1301 ameliorates tubulointerstitial alterations via induction of HGF in a mouse UUO model  
Tatsuyo Nasu, *Japan*

## F-2-2 Basic Science: Cell signaling and mediators II

**Chairs:** Clemens D. Cohen, *Switzerland*; Matsuhiko Hayashi, *Japan*

- F-2-2-1 Natriuretic peptide receptor guanylyl cyclase-A signaling exerts antagonistic effects on the local rennin-angiotensin-aldosterone system in kidney  
Yoshihisa Ogawa, *Japan*
- F-2-2-2 Angiotensin converting enzyme type 2 is down-regulated by aldosterone in the kidney  
Matsuhiko Hayashi, *Japan*
- F-2-2-3 The receptor for advanced glycation end-products (RAGE) exerts renoprotective effects via the AT-2 receptor in diabetic nephropathy  
Josephine M. Forbes, *Australia*
- F-2-2-4 Statin-inducible SLC04C1 uremic toxin transporter prevent hypertension, renal function and inflammation  
Takehiro Suzuki, *Japan*
- F-2-2-5 Overexpression of Smad1 causes remarkable glomerulosclerosis in diabetic mice  
Takeshi Matsubara, *Japan*

- F-2-2-6 The role of EP4 receptors in the regulation of renal tubular electrolytes transport  
Noritaka Kawada, *Japan*
- F-2-2-7 Localization and high-potassium intake-induced expression of mineralocorticoid receptor (MR) mRNA in mouse kidney nephron  
Mizuka Kobayashi, *Japan*
- F-2-2-8 Local, ligand-independent mineralocorticoid receptor activation by high glucose stimulation via Rac1  
Shigetaka Yoshida, *Japan*
- F-2-2-9 Salt loading and inappropriate secretion of aldosterone contribute to the renal damage in angiotensin II overproducing mice  
Maki Takeuchi, *Japan*
- F-2-2-10 Anti-proteinuric effect of tacrolimus: studies in the experimental nephropathies resulted from podocyte injury  
Masayuki Tomita, *Japan*
- F-2-2-11 The role of DOT1/AF9 in aldosterone-mediated expression of endothelin-1 in diabetic nephropathy  
Qiaoling Zhou, *China*
- F-2-2-12 Mechanical stretch augments insulin-induced vascular smooth muscle cell proliferation by upregulation of insulin-like growth factor 1 receptor  
Hirofumi Hitomi, *Japan*
- F-2-2-13 Mechanical stretch potentiates angiotensin II-induced proliferation in spontaneously hypertensive rat vascular smooth muscle cells  
Hirofumi Hitomi, *Japan*
- F-2-2-14 Pkhd1 deficiency identifies a novel functional relationship between fibrocystin/polyductin, SMURF-mediated endocytosis, and TGF- $\beta$  signaling  
Junya Kaimori, *Japan*

### F-3-1 Basic Science: Immune and inflammatory mechanisms I

**Chairs:** Takao Saito, *Japan*; Hitoshi Yokoyama, *Japan*

- F-3-1-1 Possible role of amine carbonyl reactions in melamine-induced renal injury  
Yi Lu, *Japan*
- F-3-1-2 Intrarenal prorenin and renin are increased in chronic anti-thymocyte serum (ATS) nephritis rats on high salt intake  
Tatsuo Yamamoto, *Japan*
- F-3-1-3 Characterization of pathogenic immune complexes composed of galactose-deficient IgA1 and glycan-specific IgG in IgA nephropathy  
Hitoshi Suzuki, *Japan*
- F-3-1-4 Factor Xa is a promising target molecule for future therapy of chronic kidney disease (CKD)  
Takahiko Ono, *Japan*
- F-3-1-5 Podocyte researches to clarify the pathogenesis of glomerulopathy associated with rheumatic diseases  
Hiroshi Kajiyama, *Japan*
- F-3-1-6 Enhanced expression of Hic-5 is involved in the development of human and rat mesangioproliferative glomerulonephritis  
Shuji Kondo, *Japan*
- F-3-1-7 Adipose-derived mesenchymal stem cells suppress antibody production against graft antigens  
Yosuke Saka, *Japan*
- F-3-1-8 Hematuria-inducing factor in IgA nephropathy  
Hirotugu Iwatani, *Japan*
- F-3-1-9 Podoplanin is essential for maintaining the barrier function and the structure of podocyte  
Koichi Suzuki, *Japan*
- F-3-1-10 Lack of osteopontin protects renal interstitial fibrosis in streptozotocin-induced diabetic mice  
Tomoaki Nagao, *Japan*
- F-3-1-11 p38 MAPK signaling through regulation of fibrocytes is involved in the pathogenesis of experimental peritoneal fibrosis  
Satoshi Kokubo, *Japan*

- F-3-1-12 CD80 expression in podocytes: role of toll-like receptors  
Michiko Shimada, *Japan*

### F-3-2 Basic Science: Immune and inflammatory mechanisms II

**Chairs:** Kazoh Kaizu, *Japan*; Vuddhidej Ophascharoensuk, *Thailand*

- F-3-2-1 Serum levels of B-cell activation factor belonging to the TNF family (BAFF) correlated with MPO-ANCA titers in MPO-ANCA-associated renal vasculitis  
Miho Nagai, *Japan*
- F-3-2-2 Serum soluble triggering receptor expressed on myeloid cells-1 for infectious complications in MPO-ANCA-associated renal vasculitis  
Kouichi Hirayama, *Japan*
- F-3-2-3 Successful glomerular intervention of siRNAs by polymer-based vehicles  
Hideki Shimizu, *Japan*
- F-3-2-4 Diabetes and high fat diet synergistically aggravate glomerular and tubular injury, with enhanced lipid accumulation, inflammation and fibrosis  
Takashi Kuwabara, *Japan*
- F-3-2-5 Suppression of adiponectin secretion by aberrantly glycosylated IgA1 in cultured human glomerular endothelial cells  
Tatsuyuki Inoue, *Japan*
- F-3-2-6 Is there any role of hypokalemia in the development of aristolochic acid nephropathy?  
Joo-Hark Yi, *Korea*
- F-3-2-7 The effects of pyridoxamine on rat experimental chronic glomerulonephritis  
Takashi Nakamichi, *Japan*
- F-3-2-8 Receptor for IgA1 with galactose-deficient O-linked glycans on human mesangium cells  
Yoshikatsu Kaneko, *Japan*
- F-3-2-9 Tubulointerstitial injury is exacerbated in streptozotocin-induced diabetic matrix metalloproteinase-2 knockout mice  
Hideharu Tanaka, *Japan*
- F-3-2-10 Expression of (pro)renin receptor on the renal in Dahl salt-sensitive hypertensive rats  
Yi Lu, *Japan*
- F-3-2-11 Effect of IVIg monotherapy on "cytokine and chemokine storm" in acute phase of MPO-ANCA positive MPA  
Eri Muso, *Japan*
- F-3-2-12 PPAR $\Delta$ -mediated anti-inflammatory mechanisms inhibit streptozotocin-induced diabetic nephropathy  
Daisuke Ogawa, *Japan*

### F-4-1 Basic Science: Adipocyte and metabolic disorder

**Chairs:** Atsushi Fukatsu, *Japan*; Toshinobu Sato, *Japan*

- F-4-1-1 Fasting adiponectin correlates inversely with metabolic syndrome in kidney transplantation patients  
Bang-Gee Hsu, *Taiwan*
- F-4-1-2 Fasting fatty acid binding protein 4 correlates positively with metabolic syndrome in hemodialysis patients  
Bang-Gee Hsu, *Taiwan*
- F-4-1-3 COUP-TFII acts downstream of Wnt/ $\beta$ -catenin signal to silence PPAR $\gamma$  gene expression and repress adipogenesis  
Masashi Okamura, *Japan*
- F-4-1-4 Improvement of dyslipidemia in OLETF rats diabetic nephropathy by the PGI2 analog beraprost sodium  
Maho Watanabe, *Japan*
- F-4-1-5 Fc receptor gamma chain deficiency is related to the development and deterioration of lipoprotein glomerulopathy  
Kenji Ito, *Japan*
- F-4-1-6 Losartan reverses thiazide diuretic-exacerbated insulin resistance through modulation of muscular capillary density in fructose-fed rats  
Qi Guo, *Japan*

- F-4-1-7 Adipokines in patients with chronic kidney disease and kidney transplantation  
Sapna Patel, *UK*
- F-4-1-8 Oxidative and nitrosative stress are associated with the progression of diabetic nephropathy in non-obese type 2 diabetes  
Hideki Fujii, *Japan*
- F-4-1-9 Weight gain is associated with a decrease in eGFR in middle-aged Japanese; a 5-year follow-up study  
Shozo Yano, *Japan*
- F-4-1-10 Regulation of renal receptor for advanced glycation end products (RAGE) via paracrine estrogens  
Brooke E Harcourt, *Australia*
- F-4-1-11 Role of peroxiredoxin 3 on regulation of adipocyte differentiation and adipokine secretion  
Joo Young Huh, *Korea*
- F-4-1-12 Activation of the aldosterone/mineralocorticoid receptor system in chronic kidney disease and cardiovascular disease associated with metabolic syndrome  
Miki Nagase, *Japan*
- F-4-1-13 Adiponectin deficient mice exhibit progressive diabetic kidney disease: possible role of AMPK  
Shinichi Okada, *USA*
- F-4-1-14 Early podocyte changes in adiponectin knockout mice  
Anna V. Mathew, *USA*

#### F-5-1 Basic Science: Oxidative stress and hypoxia I

**Chairs:** Yoshihide Fujigaki, *Japan*; Duk-Hee Kang, *Korea*

- F-5-1-1 Hyperbilirubinemic Gunn rat resists to impaired glucose tolerance and albuminuria in the streptozotocin-induced diabetic animal model  
Ho Jun Chin, *Korea*
- F-5-1-2 Carbonyl stress mediated myocardial fibrosis and renal injury in Dahl salt sensitive rats  
Takefumi Mori, *Japan*
- F-5-1-3 Up-regulated Sirt1 in renal ischemia/reperfusion injury protects against oxidative stress-induced renal tubular cell apoptosis  
Yoshiko Shimamura, *Japan*
- F-5-1-4 HNF-1 $\beta$ , SOCS3, and STAT3 are regulated during experimental acute kidney injury in vivo and affect renal tubular proliferation in vitro  
Koji Ogata, *Japan*
- F-5-1-5 Role of urinary L-type fatty acid-binding protein in renal tubulointerstitial injury  
Kent Doi, *Japan*
- F-5-1-6 Renoprotective effects of olmesartan by reduction of oxidative stress via stimulation of angiotensin type 2 receptors in diabetic nephropathy  
Fusakazu Jo, *Japan*
- F-5-1-7 Role of superoxide dismutase-1 in the pathogenesis of diabetic nephropathy  
Hiroki Fujita, *Japan*
- F-5-1-8 Protective effects of tubular liver fatty acid-binding protein against glomerular damage in murine IgA nephropathy  
Nan Zuo, *China*
- F-5-1-9 Withdrawn
- F-5-1-10 ARB/CBB combination therapy suppressed oxidative stress compared with ARB/HCTZ combination therapy in glomeruli and aorta of metabolic syndrome model rats  
Kengo Kidokoro, *Japan*
- F-5-1-11 Amelioration of acute tubular necrosis in ischemic acute renal failure was impaired in mice lacking hypoxia inducible factor-1 $\alpha$  gene  
Toshiaki Tamaki, *Japan*
- F-5-1-12 Metformin inhibits HIF-1 $\alpha$  expression in human renal proximal tubular epithelial cell through inhibition of mitochondrial respiration  
Yumi Takiyama, *Japan*

- F-5-1-13 Renal denervation protects from glomerular injury by suppressing NAD(P)H oxidase activity in Dahl salt-sensitive rats  
Hajime Nagasu, *Japan*

#### F-5-2 Basic Science: Oxidative stress and hypoxia II

**Chair:** Tadashi Tomo, *Japan*

- F-5-2-1 Hyper-HES therapy may resuscitate heat stroke in rats by attenuating circulatory shock, hypercoagulable state and multiorgan damage  
Kuen-Bor Chen, *Taiwan*
- F-5-2-2 Effects of s-adenosylhomocysteine on heat stroke-induced damage and survival time in rats  
Tsai-Hsiu Yang, *Taiwan*
- F-5-2-3 Cilnidipine, an L/N-type calcium channel blocker, suppresses podocyte injury and proteinuria in metabolic syndrome rats  
Daisuke Nakano, *Japan*
- F-5-2-4 Calorie restriction enhances cell adaptation to hypoxia through Sirt1-dependent mitochondrial autophagy in mouse aged kidney  
Shinji Kume, *Japan*
- F-5-2-5 Relaxin attenuates renal ischemia reperfusion injury  
Naoki Ikegaya, *Japan*
- F-5-2-6 Endogenous PPAR-gamma ligand, 15-deoxy-(Delta)12,14-Prostagalndin J2 (15-d-PGJ2), increases GSH content and has a protective effect on H<sub>2</sub>O<sub>2</sub> induced cell damage in MDCK cells  
Masaru Horio, *Japan*
- F-5-2-7 Functional catalase deficiency exacerbates glomerulosclerosis but not albuminuria in a mouse adriamycin nephrosis model  
Keiichi Takiue, *Japan*
- F-5-2-8 Nifedipine inhibits AGE-elicited mesangial cell damage by suppressing RAGE expression via PPAR-gamma activation  
Takanori Matsui, *Japan*
- F-5-2-9 Oxidative stress induced by murine protein-overload nephropathy down-regulates gene expression of hepatic cerebroside sulfotransferase, resulting in reduction of liver and serum sulfatides  
Yuji Kamijo, *Japan*
- F-5-2-10 Complex I deficient mice develop aging-related progressive renal injury  
Melinda T. Coughlan, *Australia*
- F-5-2-11 The mechanism of increased salt-sensitivity in young uni-nephrectomized Sprague-Dawley rats  
Hiroo Kawarazaki, *Japan*
- F-5-2-12 Urinary thioredoxin is a predictive biomarker of acute kidney injury  
Kenji Kasuno, *Japan*

#### F-6-1 Basic Science: Stem cell, development, regeneration

**Chairs:** Hung-Chun Chen, *Taiwan*; Fujio Shimizu, *Japan*

- F-6-1-1 Glomerular abnormalities and podocyte deficiency in the offspring rats after exposure of pregnant rats to cigarette smoke condensate  
Marcin Adamczak, *Poland*
- F-6-1-2 The SDF-1(CXCL12)/CXCR4 axis is essential for the development of renal vasculature  
Yoshitsugu Takabatake, *Japan*
- F-6-1-3 Activin enhances differentiation of mouse ES and iPS cells to tubular cells  
Ryuji Morizane, *Japan*
- F-6-1-4 The role of endothelial cell-derived factor(s) in the regeneration process of renal tubules after injury  
Masaaki Miya, *Japan*
- F-6-1-5 Renoprotective effects of human adipose tissue-derived stromal cells cultured in low serum media on acute kidney injury  
Takayuki Kasuno, *Japan*

- F-6-1-6 Adipose-derived stem cells therapy is effective in the treatment of anti-GBM glomerulonephritis  
Kazuhiro Furuhashi, *Japan*
- F-6-1-7 Bone marrow-derived endothelial progenitor cells confer renal protection in a murine chronic renal failure model  
Yon Su Kim, *Korea*
- F-6-1-8 Exploring the origin of the cells regenerating the kidneys  
Tomomi Endo, *Japan*
- F-6-1-9 BMP-4 plays a role in shaping ureteric bud during kidney development  
Atsuko Y. Higashi, *Japan*
- F-6-1-10 Transplacental vs postnatal regulation of the RAS in offspring kidneys by dietary salt  
Nadezda Koleganova, *Germany*
- F-6-1-11 High maternal salt intake and oxidative stress in the fetal kidney - impact on fetal programming  
Nadezda Koleganova, *Germany*
- F-6-1-12 In vivo differentiation into erythropoietin producer using xeno-metanephros as a bioreactor  
Kei Matsumoto, *Japan*
- F-6-1-13 Investigation of the role of endothelial progenitor cells in CKD  
Kazuhito Fukuoka, *Japan*
- F-7-2-2 The value of cystatin C as a marker of renal function and the pertinent estimation of glomerular filtration rate based on cystatin C in Korean population  
Chun Soo Lim, *Korea*
- F-7-2-3 Low left ventricle ejection fraction is independently associated with decline in estimated glomerular filtration rate in chronic kidney disease patients with angiographically confirmed coronary artery disease: a ventriculography study  
I-Wen Wu, *Taiwan*
- F-7-2-4 Low body mass index is independently associated with all-cause mortality in chronic kidney disease patients with angina: a ventriculography study  
Mai-Szu Wu, *Taiwan*
- F-7-2-5 Effects of sleep apnea syndrome on progression of CKD  
Tsuguru Hatta, *Japan*
- F-7-2-6 Predictors of quality of life in hemodialysis patients  
Lada N. Trajceska, *Macedonia*
- F-7-2-7 Renal volume and renal function in autosomal dominant polycystic kidney disease  
Shigeo Horie, *Japan*
- F-7-2-8 Pax2 mutation in Japanese patients with renal-coloboma syndrome  
Toshiya Okumura, *Japan*
- F-7-2-9 Independent association between aldosterone and increased cardiovascular mortality in patients with mildly impaired renal function the ludwigshafen risk and cardiovascular health (LURIC) study  
Andreas Tomaschitz, *Austria*
- F-7-2-10 The comparison of GFR values calculated with new CKD – epi equation with traditional simplified MDRD and cockcroft – gault formulas. The results from noninterventional, observational study  
Boleslaw Rutkowski, *Poland*

### F-7-1 Clinical Science: Epidemiology in CKD patients I

**Chairs:** Yasuhiko iino, *Japan*; Yusuke Tsukamoto, *Japan*

- F-7-1-1 Chronic kidney disease as a common status in the patients with abdominal aortic aneurysm (AAA); relationship with acute and chronic kidney injury after elective repair of infrarenal AAA  
Satoko Nakamura, *Japan*
- F-7-1-2 KLOTHO gene polymorphisms and the mortality of patients on maintenance hemodialysis  
Young Joo Kwon, *Korea*
- F-7-1-3 Urinary angiotensinogen as a marker for histopathological severity in patients with IgA nephropathy  
Akira Iguchi, *Japan*
- F-7-1-4 A single nucleotide polymorphism in *KCNQ1* is associated with diabetic nephropathy in Japanese subjects with type 2 diabetes  
Shiro Maeda, *Japan*
- F-7-1-5 Factors that predict existence of coronary lesions in incident hemodialysis patients  
Norio Hanafusa, *Japan*
- F-7-1-6 Serum levels of MCP-1 were strongly associated with estimated GFR and subclinical atherosclerosis  
Ako Fukami, *Japan*
- F-7-1-7 Genetic polymorphisms of paraoxonase-1 are associated with chronic kidney disease in Japanese female population  
Kazunobu Ichikawa, *Japan*
- F-7-1-8 Factors for proteinuria disappearance after 2-yr combination/prednisolone therapy in severe childhood IgA nephropathy  
Yuko Shima, *Japan*
- F-7-1-9 Relapse in Japanese patients with MPO-ANCA-positive microscopic polyangiitis  
Kiyoki Kitagawa, *Japan*
- F-7-1-10 Epidemiology of chronic kidney disease in a Sri Lankan population  
Eranga Wijewickrama, *Sri Lanka*

### F-7-2 Clinical Science: Epidemiology in CKD patients II

**Chair:** Nobuyuki Ura, *Japan*

- F-7-2-1 Exploring the relationship between extrarenal small vessel diseases and renal prognosis in type 2 diabetes  
Masayoshi Sakaguchi, *Japan*

### F-8-1 Clinical Science: Cardio renal anemia syndrome/ malnutrition, inflammation, oxidative stress I

**Chairs:** Hideki Hirakata, *Japan*; Yasuhiro Komatsu, *Japan*

- F-8-1-1 Asymmetric dimethylarginine (ADMA) is a novel marker for renal tissue damage in patients with chronic kidney disease (CKD)  
Ayako Fujimi-Hayashida, *Japan*
- F-8-1-2 Antibodies against  $\beta$  1-adrenergic receptors are prevalent in hemodialysis patients with low cardiac function  
Yui Takeshige, *Japan*
- F-8-1-3 Clinical significance of NT-proBNP, hs-cTnT, and MPO in chronic kidney disease  
Midori Hasegawa, *Japan*
- F-8-1-4 Endothelial dysfunction and left ventricular diastolic dysfunction are markers of cardio-renal syndrome in the early stages of chronic kidney disease  
Masashi Kitagawa, *Japan*
- F-8-1-5 Impact of renal dysfunction on left ventricular diastolic function assessed by tissue doppler imaging  
Naoki Nakagawa, *Japan*
- F-8-1-6 Decreased epiphyseal growth plate IGF-I expression in a rat model of chronic kidney disease related growth retardation  
Daniel Landau, *Israel*
- F-8-1-7 Increased plasma S100A12 level is associated with cardiovascular diseases in hemodialysis patients  
Yayoi Shiotsu, *Japan*
- F-8-1-8 Serum biological antioxidant potential (BAP) predicts the prognosis in patients on hemodialysis therapy  
Tomoko Ishii, *Japan*
- F-8-1-9 Skin-autofluorescence, a non-invasive measure for advanced glycation endproduct accumulation, is related to cardiovascular disease in chronic kidney disease patients  
Kenichi Tanaka, *Japan*

F-8-1-10 Non-invasive assessment for advanced glycation endproduct accumulation by skin-autofluorescence is associated with renal function and vascular complications in Japanese diabetic patients  
Yoshihiro Tani, *Japan*

### F-9-1 Clinical Science: Ca/P disorder and vascular calcification and atherosclerosis I

**Chairs: Somchai Eiam-Ong, *Thailand*; Takashi Shigematsu, *Japan***

- F-9-1-1 Regulation of a new N-terminal form of PTH by calcium sensing receptor in uremic patients with paradoxically reversed whole PTH/intact PTH ratio  
Hirotaka Komaba, *Japan*
- F-9-1-2 Vitamin D receptor gene variation, mineral and bone disorder and arterial stiffness in hemodialysis patients  
Alan H. Lau, *USA*
- F-9-1-3 Sevelamer is associated with suppression of circulating advanced glycation end products accumulation in hemodialysis patients: a potential mechanism for attenuation of coronary artery calcification  
Takatoshi Kakuta, *Japan*
- F-9-1-4 Assessment and significance of abdominal aortic calcification in chronic kidney disease  
Shigeru Hanada, *Japan*
- F-9-1-5 The three-dimensional morphological properties of cancellous bone microstructure in chronic kidney disease related mineral and bone disorder (CKD-MBD)  
Junichiro J. Kazama, *Japan*
- F-9-1-6 Cycling of plasma bicarbonate levels by HD significantly affect coronary artery calcification in HD patients  
Machiko Oka, *Japan*
- F-9-1-7 Effect of dietary phosphate-loading on endothelial function  
Yutaka Taketani, *Japan*
- F-9-1-8 Evaluation kids nephrocalcinosis  
Adnan M Bajraktarevic, *Bosnia and Herzegovina*
- F-9-1-9 Relationship between AST-120 treatment and abdominal aortic calcification in pre-dialysis chronic kidney disease patients  
Shunsuke Goto, *Japan*
- F-9-1-10 Role of AHSN gene polymorphisms in the serum fetuin-A concentration and a possible association with vascular calcification and aortic stiffness in peritoneal dialysis patients  
Ji Yong Jung, *Korea*
- F-9-1-11 Annual change in coronary artery calcification score due to lanthanum carbonate administration  
Yoshinari Tsuruta, *Japan*

### F-10-1 Clinical Science: Dialysis modality and vascular disease/ESA, iron and vascular disease I

**Chairs: Masafumi Fukagawa, *Japan*;  
Yoshiharu Tsubakihara, *Japan***

- F-10-1-1 Arterial stiffness in maintenance hemodialysis patients (mHD) was determined by serum hepcidin (HEPC) and TNF- $\alpha$  levels  
Takahiro Kuragano, *Japan*
- F-10-1-2 Erythropoiesis-stimulating agents dose are inversely correlated with endothelial progenitor cell counts in maintenance hemodialysis patients  
Daisuke Sanada, *Japan*
- F-10-1-3 The relationship between resistin and erythropoietin responsiveness in non-diabetic patients on hemodialysis  
Sejoong Kim, *Korea*
- F-10-1-4 Renal anemia treatment with NeoRecormon in CKD patients followed for three years of everyday clinical practice in the Central and Eastern European countries. The results of retrospective and baseline data analysis  
Maciej Drozd, *Poland*

F-10-1-5 Renal anaemia treatment with NeoRecormon in hemodialysis patients in relation to the early vs. late referral in the Central and Eastern European countries. The results of retrospective and baseline data analysis  
Jolanta Malyszko, *Poland*

- F-10-1-6 Arteriovenous vascular access closure in haemodialysis patients with refractory heart failure  
Naobumi Mise, *Japan*
- F-10-1-7 Relation between new onset of cerebral infarction and cardio thoracic ratio, left atrial dimension, bone fracture, ---equation and those influence rate: examination in hemodialysis patients  
Shin Tomita, *Japan*
- F-10-1-8 Reduced number of circulating CD34-positive cells is associated with poor cardiovascular outcomes in chronic hemodialysis patients  
Shoichi Maruyama, *Japan*
- F-10-1-9 Malnutrition and chronic inflammation status at initiating phase of hemodialysis can stratify the risk of cardiovascular and all-cause mortality in CKD stage 5 patients -10-year follow-up study  
Ryo Takahashi, *Japan*
- F-10-1-10 Long-term clinical outcomes for patients with lower limb ischemia implanted with G-CSF-mobilized autologous peripheral blood mononuclear cells (108 dialysis patients)  
Tatsuo Tsukamoto, *Japan*

### F-11-1 Clinical Science: Metabolic syndrome and CVD

**Chairs: Masakazu Haneda, *Japan*; Iekuni Ichikawa, *Japan***

- F-11-1-1 The influence of atorvastatin therapy on plasma concentrations of adiponectin, resistin and leptin in patients with metabolic syndrome  
Andrzej Wiecek, *Poland*
- F-11-1-2 Association between the metabolic syndrome and chronic kidney disease in Japanese adults  
Hidetsuna Watanabe, *Japan*
- F-11-1-3 How and on what grounds do nephrologists treat asymptomatic hyperuricemia associated with chronic kidney disease? : a questionnaire survey in Japan  
Izaya Nakaya, *Japan*
- F-11-1-4 Maximal glomerular diameter (MaxGD) as a potential prognostic predictor for IgA nephropathy, correlated with obesity/overweight  
Hiroshi Kataoka, *Japan*
- F-11-1-5 The role of aldosterone in insulin resistance at the state of chronic kidney disease  
Hitoshi Minakuchi, *Japan*
- F-11-1-6 Correlations between serum bilirubin, diabetes, and diabetic nephropathy  
Ho Jun Chin, *Korea*
- F-11-1-7 Metabolomic profiling as a tool for the assessment of patients with chronic kidney disease (CKD)  
Kaori Hayashi, *Japan*
- F-11-1-8 Increased urinary type IV collagen level predicts a deterioration of renal function in type 2 diabetic patients without overt proteinuria  
Shin-ichi Araki, *Japan*
- F-11-1-9 High incidence of cardio-vascular disease (CVD) in patients with type 2 diabetic nephropathy at the initiation of hemodialysis (HD)  
Mayu Watanabe, *Japan*
- F-11-1-10 Carbonyl and oxidative stress may predict salt sensitivity of hypertension in obese young adults  
Takefumi Mori, *Japan*
- F-11-1-11 Association between metabolic syndrome and cardiovascular and all-cause mortality in patients on long-term peritoneal dialysis  
Chia-Te Liao, *Taiwan*

# Poster Session 2

Saturday, April 17

13:00-14:00

## S-12-1 Basic Science: Vascular pathology & physiology I

Chairs: Michio Nagata, *Japan*; Hitoshi Sugiyama, *Japan*

- S-12-1-1 Withdrawn
- S-12-1-2 Glomerular endothelial glycocalyx was decreases by reactive oxygen species in Zucker obese fatty rat  
Atsunori Kuwabara, *Japan*
- S-12-1-3 Predictors of renal involvement in Filipino children with henoch-schonlein purpura in a tertiary hospital: a five-year review  
Paul Joseph T. Galutira, *Philippines*
- S-12-1-4 Association of kidney function with coronary atherosclerosis and calcification in autopsy samples from Japanese elders: the Hisayama study  
Toshiaki Nakano, *Japan*
- S-12-1-5 Relationship between expression of the transcription factor Snai1 during the renal epithelial-to-mesenchymal transition (EMT) and clinical/histopathological parameters  
Tomoya Umezono, *Japan*
- S-12-1-6 Serum glycoprotein fetuin-A is degraded in renal proximal tubular epithelial cells  
Isao Matsui, *Japan*
- S-12-1-7 Clinico-pathological vascular alteration in a disease with genetic mutation: cockayne syndrome  
Arifa Nazneen, *Japan*
- S-12-1-8 Therapeutic strategies aimed at ameliorating progression of glomerulosclerosis  
Takashi Oite, *Japan*
- S-12-1-9 Kidney of the cardiorenal syndrome is disturbed by venous congestion and oxidative stress  
Marenao Tanaka, *Japan*
- S-12-1-10 Angiotensin II receptor blockade inhibits acute glomerular injuries with the alteration of receptor expression  
Akiko Mii, *Japan*

## S-12-2 Basic Science: Vascular pathology & physiology II

Chairs: Takao Saito, *Japan*; Hitoshi Yokoyama, *Japan*

- S-12-2-1 Prevention of proteinuria and renal injury by a renin-angiotensin system (RAS) vaccine in spontaneously hypertensive rats (SHR)  
Tatsuhiko Azegami, *Japan*
- S-12-2-2 Vasculoprotective role of nitric oxide synthase system against vascular lesion formation in mice in vivo  
Yumi Furuno, *Japan*
- S-12-2-3 Impaired glomerular healing with persistent glomerular inflammation in streptozotocin-induced diabetic nephropathy  
Hideki Takano, *Japan*
- S-12-2-4 Effects of uremic toxins on the expression of adhesion molecules in cultured endothelial cells  
Chien-Te Lee, *Taiwan*
- S-12-2-5 Correlation between bone degeneration and arterial medial calcification in vascular calcification model rats  
Kenta Uto, *Japan*
- S-12-2-6 Involvement of matrix metalloproteinase-2 in the development of aortic calcification in uremic rats  
Masahide Mizobuchi, *Japan*
- S-12-2-7 Long-term administration of angiotensin converting enzyme inhibitor (ACEI) produces renovascular change in mural kidney  
Hitoshi Kusano, *Japan*

- S-12-2-8 ONO-1301 MS, a sustained-release prostacyclin analog, ameliorates renal damage in obese type 2 diabetic mice  
Hiroko Yamasaki, *Japan*
- S-12-2-9 New aspect of calcium channel blockers; how azelnidipine inhibits mineralocorticoid receptor activity  
Wakako Kawarazaki, *Japan*
- S-12-2-10 A novel PAI-1 inhibitor provides anti-thrombotic benefits in non-human primates  
Takashi Dan, *Japan*

## S-12-3 Basic Science: Vascular pathology & physiology III

Chairs: Shunya Uchida, *Japan*; Tadashi Yamamoto, *Japan*

- S-12-3-1 Dynamic observation of mechanically-injured mouse femoral artery reveals an anti-inflammatory effect of renin inhibitor  
Jun Ino, *Japan*
- S-12-3-2 Blockade of T-type calcium channel with R(-) efonidipine ameliorates the renal ischemia induced by angiotensin II in spregue-dawley rats  
Chunyan Hu, *Japan*
- S-12-3-3 Role of aliskiren on renal medullary circulation and renoprotection  
Yoshimi Yoneki, *Japan*
- S-12-3-4 Ascorbic acid (vitamin C, VIT C) reduces gentamicin (GENTA) induced nephrotoxicity through the control of nitric oxide (NO) and other reactive oxygen species (ROS)  
Elisa M. S. Higa, *Brazil*
- S-12-3-5 Effects of physical exercises on the oxidative stress and diabetic nephropathy in rats with experimental diabetes mellitus (DM)  
Elisa M. S. Higa, *Brazil*
- S-12-3-6 Evaluation of the inducible nitric oxide synthase (iNOS) effect on the core binding factor 1 (Cbfa1) expression in vascular smooth muscle cells  
Elisa M. S. Higa, *Brazil*
- S-12-3-7 Asymmetric dimethylarginine impairs endothelial function in CKD mice  
Hidemi Kajimoto, *Japan*
- S-12-3-8 Role of the renal function abnormality in bile duct ligated (Hepatorenal syndrome model) animals  
Seiji Hashimoto, *Japan*
- S-12-3-9 Early treatment with an angiotensin receptor blocker prevents the onset of podocyte injury and microalbuminuria in type 2 diabetic rats  
Tadashi Sofue, *Japan*

## S-13-1 Basic Science: Erythropoietin, vitamin D, FGF23, and Klotho

Chair: Eiji Kusano, *Japan*

- S-13-1-1 Renal anemia treatment with NeoRecormon in haemodialysis patients in relation to the early vs. late referral in the Central and Eastern European countries in everyday clinical practice - the interim analysis results  
Jolanta Malyszko, *Poland*
- S-13-1-2 Klotho overexpression attenuates renal fibrosis after unilateral ureteral obstruction by Wnt signaling inhibition  
Minoru Satoh, *Japan*
- S-13-1-3 Dual actions of fibroblast growth factor-23 on renal klotho expression  
Tutomu Inoue, *Japan*
- S-13-1-4 Modulation of the expression level of Klotho gene alternate fibrotic progression gene expression of kidney  
Hidekazu Sugiura, *Japan*

- S-13-1-5 Maxacalcitol ameliorates kidney injury in Dahl salt-sensitive rats in a renin-independent manner  
Kazunori Inoue, *Japan*
- S-13-1-6 Expression of vitamin D receptor on peritoneal macrophages in patients on peritoneal dialysis  
Kazuhiro Sugiyama, *Japan*
- S-13-1-7 Cardiovascular effects of vitamin D receptor activation in experimental chronic renal insufficiency  
J Ruth Wu-Wong, *USA*
- S-13-1-8 High-dose cholecalciferol supplementation for vitamin D deficiency in haemodialysis patients  
Eva Jakopin, *Slovenia*
- S-13-1-9 Use of active vitamin D and risk of cardiovascular events in hemodialysis patients  
Yoshihiro Tsujimoto, *Japan*
- S-13-1-10 Fibroblast growth factor 23 synthesis in bone is directly regulated by  $1\alpha,25$ -dihydroxyvitaminD, but not PTH  
Fumie Saji, *Japan*

### S-14-1 Basic Science: Vascular dysfunction and angiogenesis I

**Chairs:** Yoshihide Fujigaki, *Japan*; Duk-Hee Kang, *Korea*

- S-14-1-1 Telmisartan inhibits advanced glycation end products (AGEs)-induced asymmetric dimethylarginine (ADMA) accumulation by suppressing receptor for AGEs-mediated reactive oxygen species generation  
Ryuji Iwatani, *Japan*
- S-14-1-2 Possible involvement of albuminuria-elicited ADMA accumulation in accelerated atherosclerosis in chronic kidney disease  
Yusuke Kaida, *Japan*
- S-14-1-3 Lymphangiogenesis develop during tubulo-interstitial fibrosis in rat unilateral ureteral obstruction via TGF- $\beta$ -VEGF-C pathway  
Yasuhiro Suzuki, *Japan*
- S-14-1-4 Peritubular capillary loss induces tubulointerstitial fibrosis in deoxycorticosterone acetate (DOCA)/salt hypertensive rats  
Yoshitaka Iwazu, *Japan*
- S-14-1-5 PDGF-C mediates glomerular capillary repair  
Peter Boor, *Germany*
- S-14-1-6 Protective effects of anti-angiogenic Vasohibin-1 on podocytes in obese type 2 diabetic mice  
Daisuke Saito, *Japan*
- S-14-1-7 Role of carbonyl stress on renoprotective effects of olmesartan and exercise  
Yue Jiang, *Japan*
- S-14-1-8 Klotho is associated with VEGF receptor and transient receptor potential canonical-1 to maintain endothelial integrity  
Tetsuro Kusaba, *Japan*

### S-14-2 Basic Science: Vascular dysfunction and angiogenesis II

**Chair:** Hirokazu Okada, *Japan*

- S-14-2-1 Circulating angiopoietin-2 levels increase with progress of chronic kidney disease  
Jan T. Kielstein, *Germany*
- S-14-2-2 Hyperuricemia attenuates aortic nitric oxide generation through inhibition of arginine transport in rats  
Idit F. Schwartz, *Israel*
- S-14-2-3 Interstitial microvascular injuries with alterations of angiogenic growth factors in chronic cyclosporine nephrotoxicity  
Akira Shimizu, *Japan*
- S-14-2-4 Uncoupling of VEGF with endothelial NO might cause excessive angiogenesis in kidney disease  
Takahiko Nakagawa, *USA*

- S-14-2-5 (-)-Epigallocatechin gallate suppresses the progression of peritoneal fibrosis in methylglyoxal induced peritoneal fibrosis model in mice  
Mineaki Kitamura, *Japan*
- S-14-2-6 Effects of VEGFR-1 and/or VEGFR-2 inhibition, alone or in combination, on the kidney in db/db mice  
Cheol Whee Park, *Korea*
- S-14-2-7 Involvement of DDAH-ADMA axis in accelerated renal injury in acute ischemia-reperfusion injury  
Yosuke Nakayama, *Japan*

### S-7-3 Clinical Science: Epidemiology in CKD patients III

**Chair:** Yusuke Tsukamoto, *Japan*

- S-7-3-1 How early should be the referral to the nephrologist to ameliorate the condition of CKD patients at the time of hemodialysis initiation?  
Toshifumi Sakaguchi, *Japan*
- S-7-3-2 Morphological renal abnormalities by ultrasound among health check subjects: clinical significance of silent renal stone or cyst in chronic kidney disease  
Kiyonari Kato, *Japan*
- S-7-3-3 Metabolome analysis of uremic solutes profile in CKD patients  
Takafumi Toyohara, *Japan*
- S-7-3-4 Kidney injury is associated with cardio-pulmonary arrest  
Junichiro J. Kazama, *Japan*
- S-7-3-5 Tubulointerstitial nestin expression as a predictive marker for renal prognosis in IgA nephropathy  
Mai Tomioka, *Japan*
- S-7-3-6 Changes in less mineralized bone area after parathyroidectomy for secondary hyperparathyroidism  
Aiji Yajima, *Japan*
- S-7-3-7 Hyperuricemia is a significant risk factor for development of CKD  
Akiko Toda, *Japan*
- S-7-3-8 Resistive index predicts renal prognosis in chronic kidney disease: results of 4-year follow-up  
Toshihiro Sugiura, *Japan*
- S-7-3-9 Cause of mortality among dialysis patients over 10 years  
Bonnie CH Kwan, *Hong Kong*
- S-7-3-10 Is diagnostic accuracy of noninvasive screening test for coronary artery disease associated with renal function?  
Young Rim Song, *Korea*

### S-7-4 Clinical Science: Epidemiology in CKD patients IV

**Chair:** Nobuyuki Ura, *Japan*

- S-7-4-1 Outcomes of patients with end stage renal disease and acute kidney injury in the intensive care units: single center study  
So-Young Lee, *Korea*
- S-7-4-2 Factors associated with comorbid peripheral arterial disease in hemodialysis patients  
Makoto Hirose, *Japan*
- S-7-4-3 Correlation between kidney morphology and multiple vascular pathology in Japanese using administrative autopsy cases  
Masaya Yamazaki, *Japan*
- S-7-4-4 Predictive factors for the development of CKD in the general Japanese population  
Noriaki Iino, *Japan*
- S-7-4-5 Chronic kidney disease is associated with the severity of angiographic coronary artery disease  
Seong Gyun Kim, *Korea*
- S-7-4-6 Does arterial stiffness predict cardiovascular death independent of arterial thickness in hemodialysis patients?  
Masanori Emoto, *Japan*

- S-7-4-7 Relationship of serum or urine metalloproteinase tissue inhibitor TIMP-1 levels with the stages of CKD  
Yan L Sun, *China*
- S-7-4-8 Prevalence of chronic kidney diseases in patients with primary aldosteronism- overestimated renal function by aldosterone and presence of "masked CKD" -  
Yoshitsugu Iwakura, *Japan*
- S-7-4-9 The effects of a vitamin micronutrient beverage (VCRESO) on end stage renal failure (ESKD) patients vitamin and homocysteine (Hcy) values after long term consumption, it is a case report  
Akihiko Nakagawa, *Japan*

### S-15-1 Clinical Science: Hypertension and reno-vascular hypertension I

Chair: Masashi Mukoyama, *Japan*

- S-15-1-1 Effect of angiotensin II type 1 receptor blocker on ambulatory short-term BP variability and cardiovascular remodeling in hypertensive patients on hemodialysis  
Kouichi Tamura, *Japan*
- S-15-1-2 N/L type calcium channel blocker, cilnidipine, leads to less activation of the renin-angiotensin system compared with L type calcium channel blocker, amlodipine besilate  
Tadashi Konoshita, *Japan*
- S-15-1-3 Urinary angiotensinogen and sodium sensitivity of blood pressure in patients with IgA nephropathy  
Yoshio Konishi, *Japan*
- S-15-1-4 Eplerenone in patients with chronic kidney disease  
Tomoya Hirayama, *Japan*
- S-15-1-5 Serum pentosidine, a marker for carbonyl stress is associated with large arterial stiffness in essential hypertensives with normal renal function  
Liu Hexing, *Japan*
- S-15-1-6 Night-time hypertension: key to solve mysteries of cardio-renal connection  
Michio Fukuda, *Japan*
- S-15-1-7 Renal failure as a consequence of hypertension  
Svjatlana Cala, *Croatia*
- S-15-1-8 Beneficial effect of AST-120 on endothelial dysfunction in chronic kidney disease (CKD) patients and its potential mechanism  
Mina Yu, *Korea*

### S-8-2 Clinical Science: Cardio renal anemia syndrome/ malnutrition, inflammation, oxidative stress II

Chair: Akira Saito, *Japan*

- S-8-2-1 Long-term efficacy and safety of mycophenolate mofetil in IgA nephropathy combined with renal arteriosclerosis  
Pu Chen, *China*
- S-8-2-2 Comparison of serum albumin, C-reactive protein and carotid atherosclerosis as predictors of 10-year mortality in hemodialysis patients  
Akihiko Kato, *Japan*
- S-8-2-3 Hypoalbuminemia as a marker of anemia at s-Cr<2mg/dl in diabetic nephrosclerosis  
Yoshie Sasatomi, *Japan*
- S-8-2-4 Season influence on the advanced glycation end products food intake in dialysis patients  
Lada N. Trajceska, *Macedonia*
- S-8-2-5 Assessment of endotoxins inflow in maintenance hemodialysis (MHD) patients  
Hirokazu Honda, *Japan*
- S-8-2-6 Cardiovascular mortality and microinflammation in abdominal obese hemodialysis patients  
Sebastjan Bevc, *Slovenia*
- S-8-2-7 The effluent free radical level is a potential predictor for withdrawal and mortality in peritoneal dialysis patients  
Hiroshi Morinaga, *Japan*

- S-8-2-8 The kidney and neutrophil as the sources of an acute kidney injury biomarker Ngai  
Kiyoshi Mori, *Japan*
- S-8-2-9 Accuracy of bioimpedance spectroscopy to detect changes of body fluid status during a hemodialysis treatment  
Kyu-Beck Lee, *Korea*
- S-8-2-10 Myeloperoxidase plasma levels predict mortality and cardiovascular risk in end-stage renal disease  
Angela Y Wang, *Hong Kong*

### S-15- 2 Clinical Science: Hypertension and reno-vascular hypertension II

Chair: Takefumi Mori, *Japan*

- S-15-2-1 Cigarette smoking abrogates a renoprotective effect of renin-angiotensin-aldosterone system (RAAS) blockade in patients with IgA nephropathy  
Ryohei Yamamoto, *Japan*
- S-15-2-2 A case of childhood polyarteritis nodosa with multiple coronary aneurysms and micro-aneurysms of distal branches of renal arteries  
Rika Fujimaru, *Japan*
- S-15-2-3 Pulse pressure and kidney function in ghanaians villages  
Kwabena Kumi, *Ghana*
- S-15-2-4 Adrenal venous sampling is a critical diagnostic step to distinguish between unilateral APA and bilateral aldosterone hypersecretion with non-functional adrenal nodules on CT  
Fumitoshi Satoh, *Japan*
- S-15-2-5 The regulation of renal Na<sup>+</sup>/Ca<sup>2+</sup> exchanger and distal Ca<sup>2+</sup> transporters in rats on normal- and high-salt diet  
Midori S. Yatabe, *Japan*
- S-15-2-6 Renal Na<sup>+</sup>/Ca<sup>2+</sup> exchanger (NCX) inhibition alters blood pressure and water metabolism but not urinary calcium in rats  
Midori S. Yatabe, *Japan*
- S-15-2-7 Significance of strict blood pressure and lipid control on kidney protection in very early stage CKD patients  
Chinatsu Okamoto, *Japan*
- S-15-2-8 The clinical and pathological characteristics of renal small artery remodeling in IgA nephropathy combined with malignant hypertension  
Pu Chen, *China*

### S-9-2 Clinical Science: Ca/P disorder and vascular calcification and atherosclerosis II

Chair: Takashi Shigematsu, *Japan*

- S-9-2-1 Vascular calcification estimated by aortic calcification area index is significant predictive parameter of cardiovascular mortality in hemodialized patients  
Masaki Ohya, *Japan*
- S-9-2-2 Risk factor for calciphylaxis in PD patients based on autopsy findings  
Ken Sakai, *Japan*
- S-9-2-3 Risk factors of cardiovascular calcification in chronic hemodialysis patients  
Yu-Che Tsai, *Taiwan*
- S-9-2-4 Vascular calcification scores on plain radiographs as predictors of coronary artery disease according to dialysis modality  
Won Suk An, *Korea*
- S-9-2-5 Association between vascular calcification scores on plain radiographs and monounsaturated fatty acid content of erythrocyte membranes in hemodialysis patients  
Won Suk An, *Korea*
- S-9-2-6 Low iPTH serum level is associated with simple vascular calcification and arterial stiffness in ESRD patients  
Won Yong Cho, *Korea*

- S-9-2-7 Sevelamer Hydrochloride can improve the CKD-5D patients survival in secondary hyperparathyroidism (2HPT) patients undergoing maxacalcitol therapy  
Takashi Shigematsu, *Japan*
- S-9-2-8 Vitamin D deficiency is associated with sudden cardiac death, combined cardiovascular events and mortality in hemodialysis patients  
Christiane Drechsler, *Germany*
- S-9-2-9 Vitamin D status and mortality risk in incident dialysis patients: results from the NECOSAD study  
Christiane Drechsler, *Netherlands*
- S-9-2-10 The role of pro-and anti-inflammatory cytokines in vascular calcifications among patients undergoing peritoneal dialysis  
Chien-Te Lee, *Taiwan*

### S-9-3 Clinical Science: Ca/P disorder and vascular calcification and atherosclerosis III

**Chairs:** Atsushi Fukatsu, *Japan*; Toshinobu Sato, *Japan*

- S-9-3-1 Aortic arch calcification as a prognostic marker in chronic hemodialysis patients  
Yu-Kun Yang, *Taiwan*
- S-9-3-2 Cinacalcet suppresses proliferation of the parathyroid gland showing nodular hyperplasia in secondary hyperparathyroidism  
Chikao Yasunaga, *Japan*
- S-9-3-3 Long term efficacy of pulse treatment with high-dose active vitamin D3 in hemodialysis patients: a 3-year study  
Jianping Ning, *China*
- S-9-3-4 The advance study: a randomized study to evaluate the effects of cinacalcet plus low-dose vitamin D on vascular calcification in hemodialysis patients with secondary hyperparathyroidism  
Jurgen Floege, *Germany*
- S-9-3-5 Vascular and mineral metabolism disorders in a mediterranean population with non-dialysis chronic kidney disease. Preliminary data  
Javier Nieto, *Spain*
- S-9-3-6 Serum osteoprotegerin level and vascular stiffness in hemodialysis patients  
Hyeong Cheon Park, *Korea*
- S-9-3-7 MMP-9 and TIMP-1 associate with vascular medial calcification in end-stage renal disease patients  
Ke P. Wang, *China*
- S-9-3-8 Expressions of MMP-2, MMP-9 and TIMP-1 in vascular calcification in rats with chronic renal failure  
Hong L. Lin, *China*
- S-9-3-9 Clinical and pathological features of cinacalcet refractory secondary hyperparathyroidism in hemodialysis patients who underwent parathyroidectomy  
Keiichi Sumida, *Japan*
- S-9-3-10 Factors associated with valvular calcification in Taiwanese hemodialysis patients  
Chia-Te Liao, *Taiwan*

### S-16-1 Clinical Science: Lipid metabolism and renal and vascular disease/Vascular disease in renal transplant patients I

**Chair:** Kouju Kamata, *Japan*

- S-16-1-1 The proportion and metabolic effects of adiponectin multimetric isoforms in patients with non-diabetic kidney disease on maintenance hemodialysis  
Yasuhiro Abe, *Japan*
- S-16-1-2 Population pharmacokinetics and dose adjustment strategy of cyclosporine in steroid-resistant nephrotic patients  
Satoru Ogahara, *Japan*

- S-16-1-3 Efficacy of ezetimibe for dyslipidemia in chronic kidney disease  
Tatsuyori Morita, *Japan*
- S-16-1-4 Association between dyslipidemia and carotid artery intima-media thickness (IMT) in non-diabetic hemodialysis (HD) patients (pts)  
Ibuki Moriguchi, *Japan*
- S-16-1-5 Plasma adiponectin levels are increased with advancement of the CKD stages  
Fumi Takemoto, *Japan*
- S-16-1-6 Effects of combined use of Atorvastatin and ACE inhibitors on high blood pressure and proteinuria in focal segmental glomerulosclerosis in children  
Komiljon Khamzayev, *Uzbekistan*
- S-16-1-7 Plasma adiponectin concentration and left ventricular hypertrophy in kidney transplant patients  
Marcin Adamczak, *Poland*
- S-16-1-8 Statins and lower LDL-C/HDL-C ratio preserved the function of transplanted kidneys under controlled blood pressure  
Hideki Yamaya, *Japan*

### S-16-2 Clinical Science: Lipid metabolism and renal and vascular disease/Vascular disease in renal transplant patients II

**Chair:** Vuddhidej Ophascharoensuk, *Thailand*

- S-16-2-1 Impact of pre-existing donor hypertension and arteriosclerosis on short-term outcome of living kidney transplantation  
Tadashi Sofue, *Japan*
- S-16-2-2 Proteomics analysis of ABO blood group antigen-carrying proteins on vascular endothelial cells in the human kidney  
Masaaki Tasaki, *Japan*
- S-16-2-3 Donor arteriolar sclerosis influences short time graft outcomes in living donor kidney transplantation  
Aki Kuroki, *Japan*
- S-16-2-4 Vascular status in postoperative living kidney donors  
Masahiko Yazawa, *Japan*
- S-16-2-5 Aortic calcifications and cardiovascular events in renal transplant recipients: influence of the Fetuin-A gene and serum Fetuin-A levels  
Celine Marechal, *Belgium*
- S-16-2-6 Hyperparathyroidism, bone health, and aortic calcification in renal transplant recipients  
Sinead Kinsella, *Ireland*
- S-16-2-7 SDMA is an early marker of change in GFR after living related kidney donation  
Jan T. Kielstein, *Germany*

### S-10-2 Clinical Science: Dialysis modality and vascular disease/ESA, iron and vascular disease II

**Chairs:** Hung-Chun Chen, *Taiwan*; Matsuhiko Hayashi, *Japan*

- S-10-2-1 Three dimension dobutamine stress echocardiographic assessments of left ventricular sphericity change and dyssynchrony in peritoneal dialysis patients  
Chia C. Chang, *Taiwan*
- S-10-2-2 Impact of C-reactive protein and pulse pressure evaluated at the start of peritonealdialysis on cardiovascular events in the course of treatment with peritoneal dialysis  
Ki Young Na, *Korea*
- S-10-2-3 When LVH on the ECG in a HD patient disappears, patient's dry weight can be optimal!  
Hidenori Matsuo, *Japan*
- S-10-2-4 Evaluation of intima - media thickness of carotid artery in dialysis patients with end - stage renal disease and its association with risk factors of cardiovascular diseases  
Ramin Tajbakhsh, *Iran*

- S-10-2-5 Skin autofluorescence is an independent correlate of high sensitive C-reactive protein in hemodialysis patients  
Makio Nagano, *Japan*
- S-10-2-6 pH and serum phosphate concentration at post-dialysis may play roles in determining blood oxygen tension  
Jun-ichi Makino, *Japan*
- S-10-2-7 Excessive sodium intake and cardiovascular events on hemodialysis patients  
Fumika Taki, *Japan*
- S-10-2-8 Ambulatory blood pressure profiles and its affected factors in chronic hemodialysis patients  
Jianying Niu, *China*
- S-10-2-9 Subclinical peripheral artery disease in patients undergoing hemodialysis: risk factors and outcome  
Motoko Tanaka, *Japan*
- S-10-2-10 Suspected risk factors for catheter-related bacteremia in 116 permanent dual catheters for hemodialysis  
Hongyan Liu, *China*

### S-10-3 Clinical Science: Dialysis modality and vascular disease/ESA, iron and vascular disease III

Chairs: Takeshi Nakanishi, *Japan*; Tadashi Tomo, *Japan*

- S-10-3-1 Evaluation of the safety of a new peritoneal dialysis solution containing taurine in a rat renal failure model  
Hideki Nishimura, *Japan*
- S-10-3-2 The use of hybrid renal replacement therapy in acute cardiorenal syndrome  
Ming Shi, *China*
- S-10-3-3 Reverse epidemiology of circulating Ngal (or lipocalin 2) levels in end-stage renal disease  
Hirotaka Imamaki, *Japan*
- S-10-3-4 The enhancement of external counter pulsation improved myocardial perfusion and peritoneal clearance in CAPD patients with chronic stable angina  
Chyi-sen chang, *Taiwan*
- S-10-3-5 A case of malignant lymphoma associated with amyloid depositions complicated by microscopic polyangiitis  
Ai Nakazawa, *Japan*
- S-10-3-6 More attention to hyperkalemia is needed in hemodialysis patients with hyperphosphatemia  
Noritomo Itami, *Japan*
- S-10-3-7 Left ventricular hypertrophy in children in chronic hemodialysis  
Lilia Sabirova, *Uzbekistan*
- S-10-3-8 The change and its significance of pteridins by introduction of hemodialysis for patients with end-stage renal disease  
Masatsugu Kishida, *Japan*
- S-10-3-9 Cardiovascular benefit and improved survival in haemodialysis patients on rosuvastatin treatment is determined by normalisation of C-reactive protein and LDL cholesterol levels—a post hoc analysis of the AURORA trial  
Bengt C Fellstrom, *Sweden*
- S-10-3-10 Body composition monitor (BCM) is a useful tool to assess hydration status in hemodialyzed and peritoneally dialyzed patients  
Jolanta Malyszko, *Poland*

### S-17-1 Clinical Science: Proteinuria and cardiovascular disease I

Chairs: Clemens D. Cohen, *Switzerland*; Fujio Shimizu, *Japan*

- S-17-1-1 Microalbuminuria in pediatric patients with sickle cell anemia and role of angiotensin converting enzyme inhibitor  
Hatem-hamed Elshorbagy, *Egypt*

- S-17-1-2 The fixed combination of perindopril and indapamide has a greater effect on cardiovascular outcomes in patients with type 2 diabetes and albuminuria  
Toshiharu Ninomiya, *Australia*
- S-17-1-3 Urinary shedding forms of megalin as novel biomarkers of proximal tubular injury  
Akihiko Saito, *Japan*
- S-17-1-4 Urinary albumin excretion associated with cardiovascular risks in essential hypertensives with normoalbuminuria  
Maiko Ohara, *Japan*
- S-17-1-5 Very high doses of valsartan provide renoprotection independently of blood pressure in a type 2 diabetic nephropathy rat model  
Naoto Tominaga, *Japan*
- S-17-1-6 Proteinuria is an indicator for acceleration of arteriosclerosis through endothelial dysfunction  
Takashi Yasuda, *Japan*
- S-17-1-7 Frequency of microalbuminuria in acute myocardial infarction patients without diabetes mellitus  
Mohammad Mojerloo, *Iran*
- S-17-1-8 Vasculitic syndrome caused by thoracic aortic angiosarcoma  
Masako Otani, *Japan*

### S-17-2 Clinical Science: Proteinuria and cardiovascular disease II

Chairs: Iekuni Ichikawa, *Japan*; Masakazu Haneda, *Japan*

- S-17-2-1 Incomplete tubular compensation model for albuminuria in diabetic nephropathy  
Kiyoshi Mori, *Japan*
- S-17-2-2 Acute kidney injury in primary nephrotic syndrome  
Nuttasith Larpparisuth, *Thailand*
- S-17-2-3 Low glomerular filtration rate in normoalbuminuria in diabetic patients  
Takahiro Oonishi, *Japan*
- S-17-2-4 Clinicopathological characteristics of rapidly progressive renal failure without ANCA: a retrospective analysis of 33 cases  
Yu Tateishi, *Japan*
- S-17-2-5 Insertion/deletion polymorphism of adrenomedullin 2/intermedin gene is associated with chronic kidney disease and silent cerebrovascular lesions in a Japanese general population: the Ohasama study  
Takuo Hirose, *Japan*
- S-17-2-6 Low calorie diet with formula food reduces albuminuria in proportion to the improvement in fractional excretion of uric acid in obese men  
Tetsuro Takeda, *Japan*
- S-17-2-7 Loss of the corticomedullary differentiation could be an independent risk factor of the progression of chronic kidney disease  
Hideyuki Inoue, *Japan*
- S-17-2-8 Heart function in children with nephrotic syndrome and impaired renal function  
Bakhrom Mamatkulov, *Uzbekistan*