

- Ablation nephropathy 241
 Acute renal failure 38
 Adenosine analogues 100
 Adenosine-binding protein 100
 S-Adenosylhomocysteine hydrolase 100
 Adhesion 166
 Adrenals 109
 Advanced glycosylation end products 305
 Amiloride 24
p-Aminohippurate transport 332
 Analogue, vitamin D 325
 Angiotensin, generation 254
 Anion channels 317
 Aquaporin 32
 Arginine vasopressin 81
L-Arginine 177
 AT2 receptors 241
 Atomic force microscopy 142
 ATP-sensitive K⁺ channels 142
 Autoimmunity 298
- Basolateral membrane 230
 Bicarbonate 87
 Bio-impedance 94
 Blood pressure 340
 Body water 94
 Brush border membrane 151, 230
- Ca²⁺ influx 148
 – signaling 148
 Calcineurin 174
 Calcium 81, 172
 – antagonist
 cAMP 81
 Catecholamines 109
 Cell proliferation and differentiation 325
 Chemokines 270
 Chemotactic factor 270
 Cholesterol 230
 Chromosomal localization 209
 Chronic renal failure 191
 – – –, angiotensin 254
 Clinical study 196
 Collecting duct 32
 Complement function, glomerular injury 290
 Cortex, renal 128
 Cytokines 177, 281
- Diabetes 166
 – nephropathy 305
 Dialysis 94
 Dog kidney 230
- L*-Dopa 109
 Dopamine 109
- ⁵¹Cr-EDTA clearance 121
 Electrophysiology 155
 Endocytosis 142
 Endothelin-1 182
 Endothelium 166
 Enzyme activity 100
 Epithelia 148
 Experimental progressive nephropathies 182
 Extracellular matrix 184, 281, 305
- Fatty acids 230
 Focal segmental glomerulosclerosis 245
 Fura-2 24
 Fusion protein 201
- G proteins 172
 Gene defect 209
 Genetics 172
 Glomerular architecture 245
 – disease 270
 – epithelial cell 81
 – filtration rate 340
 – – –, pregnancy 121
 – immunological injury 290
 Glomerulonephritis 177, 196, 201, 263, 270, 281, 298
 Glomerulosclerosis 177, 182, 254
 Glomerulus 184, 254, 281
 Goodpasture's syndrome 298
 Growth factors 254, 281
- Hemodialysis 215
 Hemodynamics 225
 Hemolytic uremic syndrome 205
 Hemorrhage 340
 Hepatitis C 215
 Hereditary nephropathies 209
 Heterogeneity 209
 Human disease 160
 Humanized antibodies 174
 Hyperglycemia 305
 Hypertension 160, 166, 172, 177
 Hypotension 160
- Immune complexes, glomerular injury 290
 Immunodeficiency 174
 Immunosuppression 174
 Immunosuppressive therapy 201, 298
 Inflammation 177
- Inner medullary collecting duct 317
 Integrins 184
 Interferon 215
 Interstitial nephritis 298
 Inulin clearance 121
 Ischemia 332
- Kidney 32, 109, 115, 160, 184
 – pathophysiology 225
 – transplantation 201
- Lipid peroxidation 263
 Lithium clearance 16
 Low-phosphate diet 151
- Macrophages 177, 305
 MDCK cells 142
 Medulla, renal 128
 Membrane fluidity 230
 – vesicles 332
 Mercuric chloride 38
 Mesangial cell 184
 Mesangium 281
 Migration 142
 Mouse model 160
 Mutations 155
 Mycophenolate mofetil 174
 Myo-inositol 317
- Na⁺/Ca²⁺ exchange 24
 Na⁺/H⁺ exchange 87
L-Name 340
 Nephropathy 196
 Nephrotoxicity 225
 Nitric oxide 177, 340
 – – atherosclerosis 166
- Ochratoxin A 225
 Organ transplantation 174
 Organic osmolytes 317
 Ouabain 24
 Oxytocin 81
- Papilla, renal 128
 Parathyroid hormone 151
 Pathogenesis 191
 PD123319 241
 Permeability 166
 Phorbol esters 87
 Phosphate reabsorption 151
 Phospholipids 128, 230
 Podocyte damage 245
 Polymerase chain reaction 215

Pressure escape 16
 Protein kinase C 87, 305
 – reabsorption 182
 Proteinuria 263
 Proximal tubular cells 325
 – tubule 87, 151, 225
 Pseudoaldosteronism 160

 Rabbit kidney 332
 Randomized controlled trials 196
 Reactive oxygen species 263
 Reduced renal perfusion pressure 16
 Renal cortex 38
 – cortical slices 332
 – function 340
 – medulla 38
 – papilla 38
 – vascular resistance 340
 Renin-angiotensin 115

 Saline infusion 121
 SBFi 24
 Scarring 184
 Scavenger substances 263
 Shock 340
 Signal transduction 148, 172
 Sodium 109
 – excretion 16, 115
 – reabsorption 160
 Sodium-coupled glucose transporter 155
 – phosphate transporter 155
 – sulfate transporter 155
 Sodium-independent transporter of neutral
 and dibasic amino acids 155
 Stilbene derivatives 317
 Streptozotocin-induced diabetes 128
 Systemic vascular resistance 340

 T cells 298
 Target of rapamycin 174

 Taurine 317
 Tetraethylammonium transport 332
 Therapy 196
 Thrombotic microangiopathy 205
 – thrombocytopenic purpura 205
 Thyroxine 38
 Time course 16
 Tissue injury 177
 Transforming growth factor beta 305
 Transgenic mice 160
 Transport molecules 155
 Tubular cells 182

 Vasopressin 32
 – antagonist 32
 – V2 receptor 32
 Viral hepatitis 215
 Vitamin D 325

 X-linked hypophosphatemia 151