



Professor Peter Mathieson

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Biography

Peter Mathieson went to school in Cornwall, then qualified in Medicine with honours from London Hospital Medical College in 1983. After junior posts in and around the West End of London, he went to Cambridge as an MRC training fellow, studying for a PhD which was awarded by Cambridge University in 1992. After a further MRC-funded fellowship during which he worked with Professors Peter Lachmann and Doug Fearon on complement/immunology, he moved to Bristol in 1995 as the foundation Professor of Renal Medicine at Bristol University and Honorary Consultant Nephrologist, North Bristol NHS Trust.

Peter was elected Fellow of the Academy of Medical Sciences in 1999. In 2007 he was elected as President of the Renal Association (the youngest ever!) and also became Head of the University Department of Clinical Science at North Bristol. He was also appointed as Director of Research & Development for the North Bristol NHS Trust. Between 2003 and 2007 he chaired the Research Grants Committee of Kidney Research UK [formerly National Kidney Research Fund]. He was a member of the Renal Association Clinical Trials committee from 1996 to 2007 and its chairman between 2000 and 2003. In 2008 Peter was appointed Dean of the Faculty of Medicine and Dentistry.

Peter's major clinical interest is in autoimmune renal diseases (glomerulonephritis, systemic vasculitis, systemic lupus erythematosus etc.). His research interests are in human glomerular cell biology and regulation of glomerular permeability, and he leads the group in the Academic Renal Unit that in recent years has made significant contributions to the study of podocytes and glomerular endothelial cells, interactions between them and factors in the causation and treatment of proteinuria. The work of the group has attracted major research grant funding of around £5million from sources including Medical Research Council, Wellcome Trust and Kidney Research UK.

In any spare time, Peter enjoys hill-walking, travelling and spending time with his family.

Expertise

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- autoimmune renal diseases
- kidneys
- systemic lupus erythematosus
- human glomerular cell biology
- regulation of glomerular permeability
- renal diseases

Memberships

Organisations

Other sites

- [Bhi](#)
- [Medical-school](#)

Academic staff

- [School of Clinical Sciences Academic Staff](#)

Recent publications

- Onions, KL, Gamez, M, Buckner, NR, Baker, SL, Betteridge, KB, Desideri, S, Dallyn, BP, Ramnath, RD, Neal, CR, Farmer, LK, Mathieson, PW, Gnudi, L, Alitalo, K, Bates, DO, Salmon, AH, Welsh, GI, Satchell, SC & Foster, RR, 2019, '[VEGFC reduces glomerular albumin permeability and protects against alterations in VEGF receptor expression in diabetic nephropathy](#)'. *Diabetes*, vol 68., pp. 172-187
- Hurcombe, JA, Hartley, P, Lay, AC, Ni, L, Bedford, JJ, Leader, JP, Singh, S, Murphy, A, Scudamore, CL, Marquez, E, Barrington, AF, Pinto, V, Marchetti, M, Wong, L-F, Uney, J, Saleem, MA, Mathieson, PW, Patel, S, Walker, RJ, Woodgett, JR, Quaggin, SE, Welsh, GI & Coward, RJM, 2019, '[Podocyte GSK3 is an evolutionarily conserved critical regulator of kidney function](#)'. *Nature Communications*, vol 10.
- May, O, Merle, NS, Grunenwald, A, Gnemmi, V, Leon, J, Payet, C, Robe-Rybkin, T, Paule, R, Delguste, F, Satchell, SC, Mathieson, PW, Hazzan, M, Boulanger, E, Dimitrov, JD, Fremeaux-Bacchi, V, Frimat, M & Roumenina, LT, 2018, '[Heme Drives Susceptibility of Glomerular Endothelium to Complement Overactivation Due to Inefficient Upregulation of Heme Oxygenase-1](#)'. *Frontiers in Immunology*, vol 9.
- Jiang, L, Hindmarch, CCT, Rogers, M, Campbell, C, Waterfall, C, Coghill, J, Mathieson, PW & Welsh, GI, 2016, '[RNA sequencing analysis of human podocytes reveals glucocorticoid regulated gene networks targeting non-immune pathways](#)'. *Scientific Reports*, vol 6.
- Rigothier, CC, Saleem, MA, Bourget, C, Mathieson, PW, Combe, C & Welsh, GI, 2016, '[Nuclear translocation of IQGAP1 protein upon exposure to puromycin aminonucleoside in cultured human podocytes: ERK pathway involvement](#)'. *Cellular Signalling*, vol 28., pp. 1470-1478
- Narita, I, Shimada, M, Yamabe, H, Kinjo, T, Tanno, T, Nishizaki, K, Kawai, M, Nakamura, M, Murakami, R, Nakamura, N, Tomita, H, Saleem, MA, Mathieson, PW & Okumura, K, 2016, '[NF-κB-dependent increase in tissue factor expression is responsible for hypoxic podocyte injury](#)'. *Clinical and Experimental Nephrology*, vol 20., pp. 679-688
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- Rai, P, Singh, T, Lederman, R, Chawla, A, Kumar, D, Cheng, K, Valecha, G, Mathieson, PW, Saleem, MA, Malhotra, A & Singhal, PC, 2015, '[Hyperglycemia enhances kidney cell injury in HIVAN through down-regulation of vitamin D receptors](#)'. *Cellular Signalling*, vol 27., pp. 460-9
- Jiang, L, Dasgupta, I, Hurcombe, JA, Colyer, HF, Mathieson, PW & Welsh, GI, 2015, '[Levamisole in steroid-sensitive nephrotic syndrome: usefulness in adult patients and laboratory insights into mechanisms of action via direct action on the kidney podocyte](#)'. *Clinical Science*.
- Leung, JCK, Chan, LYY, Saleem, MA, Mathieson, PW, Tang, SCW & Lai, KN, 2015, '[Combined blockade of angiotensin II and prorenin receptors ameliorates podocytic apoptosis induced by IgA-activated mesangial cells](#)'. *Apoptosis*, vol 20., pp. 907-20

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