University of Birmingham

Dr Konstantinos Manolopoulos MD DPhil

Clinical Lecturer in Endocrinology and Diabetes

Endocrinology, Diabetes and Metabolism

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About

Konstantinos Manolopoulos is a Clinical Lecturer in Endocrinology and Diabetes with a research interest in human in vivo metabolic physiology. He is exploring the hormonal determinants of adipose tissue function, and the cross-talk between adipose tissue and muscle. His research is funded by the Society for Endocrinology and the Academy of Medical Sciences.

He is a specialist trainee (Registrar) in Endocrinology, Diabetes and General Internal Medicine. He is involved in bed-side teaching for medical students, as well as providing support in departmental small group teaching.

Qualifications

- DPhil Clinical Medicine 2011
- MD 2005
- MBChB 2004

Biography

Konstantinos Manolopoulos qualified in Medicine from the University of Dusseldorf, Germany in 2004. He did his core medical training at the University Hospitals Dusseldorf and Bochum, Germany. He obtained an academic MD from the University of Bochum, Germany with a thesis on the effect of a collagen polymorphism on the severity of coronary artery disease in patients with type 2 diabetes. In 2007, he relocated to the UK and joined the University of Oxford as a Wellcome-Trust funded Clinical Research Fellow at the Oxford Laboratory for Integrative Physiology (Oxlip). Under the supervision and mentorship of Prof. Keith Frayn and Prof. Fredrik Karpe, he conducted in vivo research in human adipose tissue physiology. He obtained a DPhil in Clinical Medicine from the University of Oxford in 2011. He joined the University of Birmingham as a Clinical Lecturer at the Centre for Endocrinology, Diabetes and Metabolism (CEDAM) in 2011. He continues his specialty training in Endocrinology, Diabetes and General Internal Medicine at the West Midlands Deanery.

Teaching

- Tutor in small group teaching sessions in Endocrinology and Diabetes
- Bed-side teaching sessions as part of clinical work

Postgraduate supervision

Konstantinos Manolopoulos is interested in supervising medical students studying for intercalated degrees, as well as doctoral research students in the following areas:

- Hormonal determinants of human adipose tissue function
- The cross-talk between adipose tissue and muscle, and the effect of exercise

If you are interested in studying any of these subject areas please contact Dr Manolopoulos on the contact details above.

Research

Konstantinos Manolopoulos' research interest is in human metabolic in vivo physiology with a special interest in adipose tissue. He uses a range of gold standard integrative physiology techniques like the arterio-venous difference technique, stable isotope tracer methodology and xenon washout for selective measurements of fatty acid trafficking and adipose tissue blood flow. He is interested in the hormonal determinants of adipose tissue function, and currently studies the effects of hypercortisolaemia on fatty acid trafficking across abdominal and femoral adipose tissue. A further emerging area of research interest is the hormonal regulation of brown adipose tissue function. He is developing a research programme that utilises both in vivo and in vitro methods to study the effects of glucocorticoids in particular. From a translational point of view, he is studying the effects of bariatric surgery on adipose tissue function and the cross-talk between muscle and adipose tissue in an integrative physiology approach.

Find out more about Konstantinos' research **here (/research/activity/mds/domains/hormones-metabolism-reproduction/obesity-insulin-diabetes/integrative-metabolic-physiology-obesity/index.aspx)** .

Publications

McNelis JC, Manolopoulos KN, Gathercole LL, Bujalska IJ, Stewart PM, Tomlinson JW, Arlt W. Dehydroepiandrosterone exerts antiglucocorticoid action on human preadipocyte proliferation, differentiation, and glucose uptake. **Am J Physiol Endocrinol Metab 2013**, Nov; 305 (9): E1134-44

Manolopoulos KN, Karpe F, Frayn KN. Marked resistance of femoral adipose tissue blood flow and lipolysis to adrenaline *in vivo.* **Diabetologia 2012**, Nov; 55 (11): 3029-37

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Thompson D, Manolopoulos K, Bouloumié A. Arterio-venous differences in peripheral blood mononuclear cells across human adipose tissue and the effect of adrenaline infusion. **Int J Obesity 2012**,Sep; 36 (9): 1256-8

Manolopoulos KN, Klotz LO, Korsten P, Bornstein SR, Barthel A. Linking Alzheimer's disease to insulin resistance: The FoxO response to oxidative stress. **Molecular Psychiatry 2010**, 15 (11): 1046-52

Manolopoulos KN, Karpe F, Frayn KN. Gluteofemoral fat as a determinant of metabolic health. **Int J Obesity 2010**, 34 (6): 949-59

McQuaid SE, Manolopoulos KN, Dennis AL, Cheeseman J, Karpe F, Frayn KN. Development of an arterio-venous difference method to study the metabolic physiology of the femoral adipose tissue depot. **Obesity 2010**, 18 (5): 1055-8

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