CSAR
Cambridge Society for the Application of Research

Churchill College
Storeys Way
Cambridge
CB3 0DS

Human Metabolic Disease
Lessons from the Extremes

Professor Sir Stephen O'Rahilly

7.30pm, Monday 3rd November
Wolfson Hall Lecture Theatre, Churchill College, Storey's Way, Cambridge

The Lecture:
Stephen O'Rahilly writes:

The genetic component of quantitative metabolic traits is complex with a mixture of common alleles of small effect and rarer alleles of larger effect. We have principally focused on finding the latter through the study of extreme human phenotypes of obesity and insulin resistance, including lipodystrophy. By applying both candidate and hypothesis-free genetic approaches we have identified multiple different genetic variants that cause highly penetrant forms of these diseases. Through detailed phenotypic studies in humans and relevant murine and cellular models, these disorders continue to provide new insights into the physiology and pathophysiology of energy balance and metabolism.

About the Speaker:

Professor Sir Stephen O'Rahilly, MD FRCP FRCPI FRCPath FRS FMedSci

Stephen O'Rahilly graduated in Medicine from University College Dublin in 1981. From 1982 to 1991 he undertook postgraduate clinical and research training in general medicine, diabetes and endocrinology in London, Oxford and Harvard. In 1991 he obtained a Wellcome Trust Senior Clinical Fellowship and established his laboratory at the University of Cambridge. In 1996 he was appointed to a newly created Chair of Metabolic Medicine and in 2002 to the Chair of Clinical Biochemistry and Medicine at the University of Cambridge. He is the Co-Director of the Wellcome Trust-MRC Institute of Metabolic Science and Director of the MRC Metabolic Diseases Unit. His research has been concerned with the elucidation of the basic causes of obesity and Type 2 diabetes at a molecular level and the translation of those discoveries into improved diagnosis and therapy for patients. His work has uncovered several previously unrecognised genetic causes of these diseases including some that are amenable to specific treatment. He has won many awards for his work including the Society for Endocrinology Medal, the European Journal of Endocrinology Prize, the Novartis International Award for Clinical

Research in Diabetes, the Clinical Investigator Award of the Endocrine Society, the Heinrich Wieland Prize, the Rolf Luft Award, the Feldberg Award, the Society for

Endocrinology Dale Medal, the InBev Baillet-Latour Prize for Health, the Ulysses Medal, the Zülch Prize and the Baly Medal. He was elected to the Academy of Medical Sciences in 1999, to the Royal Society in 2003, to the US National Academy of Sciences in 2011 and is an Honorary Member of the German Society for Internal Medicine. He has received honorary doctorates from the Universities of Dundee, Warwick and Buckingham and from University College Dublin. In 2013 he was appointed a Knight Bachelor for services to medical research. He has a continuing commitment to clinical practice and the teaching of medical students. He has made important contributions to the development of infrastructure for clinical research on the Addenbrooke's campus. He has been a successful mentor of young scientists and clinician-scientists. He has contributed more generally to UK science through his Chairmanship of the Wellcome Trust Clinical Interest Group, the Medical Research Society and of the MRC Translational Research Overview Group; through his previous membership of the MRC Strategy Board and his service on the research advisory committees of several charities and companies.

University Degrees
MB BCh BAO 1981 (National University of Ireland)
MD 1987 (National University of Ireland)

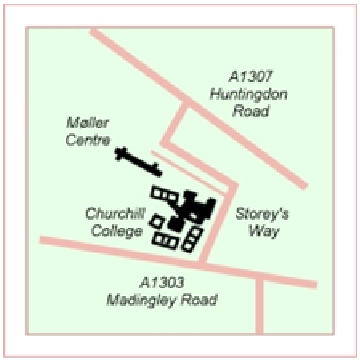
Professional Qualifications
MRCPI (1983); MRCP (UK) (1984); FRCPI (1996); FRCP (UK) (1996); FRCPath (2002)

Affiliations
Professor Sir Stephen O'Rahilly, MD FRS FMedSci
Professor of Clinical Biochemistry and Medicine
Head of Department, Department of Clinical Biochemistry, University of Cambridge
Director, University of Cambridge Metabolic Research Laboratories
Director, MRC Metabolic Diseases Unit
Co-Director, Wellcome Trust-MRC Institute of Metabolic Science
Scientific Director, NIHR Cambridge Biomedical Research Centre
Honorary Consultant Physician, Cambridge University Hospitals NHS Foundation Trust
Fellow, Pembroke College, Cambridge
President, Society for Endocrinology
Associate Faculty Member, Wellcome Trust Sanger Institute, Cambridge

The Organising Secretary adds:

Practical Matters

Those attending the CSAR lecture may park in the Senior Car Park on Churchill Road, which is off Storey's Way. More parking is available further along Churchill Road, and in the Möller Centre at the far end.



CSAR lectures are open to all; CSAR members are admitted free. Pupils and students may register for free membership at the lecture reception desk.
Non-members are asked to make a nominal contribution of £3.00.
Coffee and biscuits are available in the Wolfson Foyer from around 7pm.
For further directions, see
www.chu.cam.ac.uk/about/visitors/directions.phpf