

**Society for the Study of Human Biology
50th Anniversary Symposium and Proffered Papers Meeting**

**1 – 3 April, 2008
New College, Oxford**

Programme

Tuesday 1st April

9.30 Registration and Coffee

**Session 1: Human Biology and Anthropology –
Past, Present and Future**

10.30 *Introduction and Welcome* Noel Cameron, Chair SSHB

10.40 *Fifty years of the Society for the Study of Human Biology*
Noel Cameron
Loughborough University, UK and Princeton University, US

11.10 *Coronary heart disease: a disorder of growth and development*
David Barker
University of Southampton, UK & Oregon Health and Science University, US

11.45 General discussion

12.00 Lunch break

Session 2: Human Growth and Development

13.15 *Introduction and Welcome* Noel Cameron

13.25 *Environmental Influences on Human Growth and Development*
Lawrence Schell
*Department of Anthropology, and Department of Epidemiology & Biostatistics, State
University of New York, US*

Proffered papers

14.00 **What is the effect of menarcheal status when assessing overweight
and obesity from BMI in individual adolescent girls?**

J.H. Himes & K. Park

Division of Epidemiology & Community Health, University of Minnesota, USA

14.15 Approaches to assessing the role of household socio-economic status on child growth measures in urban South Africa

Z. Sheppard¹, S. Norris², J. Pettifor², N. Cameron¹ & P. Griffiths¹

¹ *Loughborough University, UK*

² *University of the Witwatersrand, South Africa*

14.30 Intergenerational differences in body composition among 7-11 year old British Pakistani children

E.J. Henderson, C.H.D. Jones, Y.C. Hornby, H.C. Atherton & T. M. Pollard

Department of Anthropology, Durham University, UK.

14.45 COFFEE

15.10 *Human growth from the cell to the organism – the saltatory model of human growth*

Michelle Lampl, *Department of Anthropology, Emory University, US*

Proffered papers

15.45 Do clean hands make children healthy?

R. Langford¹, P.G. Lunn² & C. Panter-Brick³

¹ *Department of Anthropology, Durham University, UK*

² *Department of Biological Anthropology, University of Cambridge, UK*

³ *Department of Anthropology, Durham University, UK*

16.00 Adolescent girls' physical activity: What is the role of growth and development?

L.B. Sherar, N.C. Gyurcsik, M.L. Humbert & A.D.G. Baxter-Jones

University of Saskatchewan, Canada

16.15 Secular Trends in Skeletal Maturity in South Africa: 1962 to 2001

N. Hawley¹, E. Rousham¹, S. Norris² & N. Cameron¹

¹ *Loughborough University, UK*

² *University of Witwatersrand, South Africa*

16.30 Childhood growth trajectories and body composition are the most sensitive indicators of pubertal timing in urban South Africa

L.L. Jones¹, P. Griffiths¹, S.A. Norris² & N. Cameron¹

¹ *Loughborough University, UK*

² *University of the Witwatersrand, South Africa*

16.45 *The recognition and treatment of growth disorders*

Babette Zemel,

The Children's Hospital of Philadelphia and University of Pennsylvania School of Medicine, US

17.20 General discussion

17.35 Close, followed by Reception at 18.00

Wednesday 2nd April

Session 3: Human Genetics and Variation

9.15 Introduction and Welcome: **Nicholas Mascie-Taylor**

9.25 ***Molecular perspectives on the Genetic Structure of Island Populations: Aleutian Archipelago***

Michael Crawford, *Department of Anthropology, University of Kansas, US*

10.00 ***Genetic influence on human psychological characteristics: How much and why?***

Thomas Bouchard, *Psychology Department, University of Minnesota, US*

10.35 Coffee

Proffered papers

11.00 **Prehistoric dispersals in Southeast Asia and their descendants: Indigenous or exogenous?**

S. Oppenheimer, *School of Anthropology, University of Oxford, UK*

11.15 **Susceptibility loci for adiposity-related phenotypes in a combined adult study sample from American Samoa and Samoa.**

K. Åberg¹, F. Dai¹, G. Sun², E.D. Keighley³, S. Rao Indugula², S.T. Roberts³, Q. Zhang², D. Smelser², S. Viali⁴, J. Tuitele⁵, L. Jin², R. Deka², D.E. Weeks¹ & S.T. McGarvey³

¹ *Department of Human Genetics, University of Pittsburgh, US*

² *Center for Genome Information, University of Cincinnati, US*

³ *International Health Institute, Brown University, US*

⁴ *Tupua Tamasese Meaole Hospital, Ministry of Health, Samoa*

⁵ *Tafuna Family Health Center, Department of Health, American Samoa*

11.30 **Selection against "Catholic/Irish" forenames in the nineteenth century Irish population of England and Wales**

M. Smith¹ & D. MacRaid²

¹ *Evolutionary Anthropology Research Group, Durham University, UK*

² *University School of History & International Affairs, University of Ulster, UK*

11.45 ***The Genetics of Susceptibility to Parasitic Disease***

Sarah Williams-Blangero

Department of Genetics, South West Foundation for Biomedical Research, US

12.20 General discussion

12.35 SSHB AGM

13.00 Lunch

Session 4: Human Evolution

14.30 Introduction and Welcome: **Sarah Elton**

14.40 **Growth and development in *Homo erectus* 1.5 million years ago**
Christopher Dean, *University College London, UK*

Proffered papers

15.15 **Finite element modelling of anterior dental loading in modern human and Neanderthal mandibles.**

F. Gröning^{1,2} & P. O'Higgins^{1,2}.

¹*Functional Morphology and Evolution Unit, Hull York Medical School, UK*

²*Department of Archaeology, University of York, UK*

15.30 **Determinants of symphyseal form in mandible: Biomechanical and spatial models during ontogeny**

O. Panagiotopoulou^{1,2}, S. Cobb²

¹*PALAEO, Department of Archaeology, University of York, UK*

²*Functional Morphology and Evolution Unit, Hull York Medical School, UK*

15.45 **Metrical and developmental comparison of a mandibular second molar from Gondolin: a case for hyper-robust *Paranthropus* in southern Africa?**

K.L. Kuykendall, *Department of Archaeology, University of Sheffield, UK*

16.00 COFFEE

16.25 **How do we know what we think we know about early hominin diets? The contributions of biogeochemical approaches to the problem**

Julia Lee-Thorp, *Division of Archaeological, Geographic and Environmental Sciences, University of Bradford, UK*

Proffered papers

17.00 **Is it possible to accurately assess handedness in hominids?**

L. Cashmore, *Centre for the Archaeology of Human Origins, University of Southampton, UK*

17.15 **Does dietary fat intake link human ovarian functioning to variation in environmental quality?**

V.J. Vitzthum^{1,2,3}, T. Deschner³, J. Thornburg⁴, H. Spielvogel⁵ & P. Whitten⁶

¹*Anthropology Department & Kinsey Institute, Indiana University, US*

²*Institute for Primary & Preventative Health Care, Binghamton University, US*

³*Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany*

⁴*School of Mathematics, University of Southampton, UK*

⁵*Instituto Boliviano de Biología de Altura, La Paz, Bolivia*

⁶*Department of Anthropology, Emory University, Atlanta, US*

17.30 ***Brains, Evolution and the Origins of Sociality***

Robin Dunbar

Institute of Cognitive & Evolutionary Anthropology, University of Oxford, UK

18.05 General discussion

18.20 Close, followed by conference dinner at 19.30

Thursday 3rd April

Session 5: Human Ecology

9.15 Introduction and Welcome: **Stanley Ulijaszek**

9.25 ***Human Ecology and Global Economy***

Maciej Henneberg,

Department of Anatomical Sciences, University of Adelaide, Australia

Proffered papers

10.00 **Mother's early environment moderates the association between age at menarche and parental investment during pregnancy**

D.A. Coall¹ & J.S. Chisholm²

¹*Department of Psychology, University of Basel, Switzerland*

²*School of Anatomy & Human Biology, University of W. Australia, Australia*

10.15 **The health and nutritional status of orphan schoolchildren in Ethiopia**
V. Tuffrey & A. Hall

Centre for Public Health Nutrition, University of Westminster, UK

10.30 **Risk factors for anaemia in 5-12 month old children in Guyana**
G. Trim¹ & S. Ismail²

¹*Centre for Public Health Nutrition, University of Westminster, UK*

²*Social Development Inc, Guyana*

10.45 COFFEE

11.10 ***Integrated Human Studies: Symbiosis with human biology and human ecology***

Neville Bruce and Linc Schmitt

School of Anatomy and Human Biology, University of Western Australia

Proffered papers

11.45 **Factors in the regulation of fertility in deprived populations**

L. Rosetta¹ & C.G.N. Mascie-Taylor²

¹*Centre National de la Recherche Scientifique, France*

²*Department of Biological Anthropology, University of Cambridge, UK*

12.00 **Joined up approaches to obesity**

S. Ulijaszek & C. Potter

Unit for Biocultural Variation and Obesity, University of Oxford, UK

12.15 ***Assessing intra-uterine influences on offspring health outcomes: can epidemiological studies yield robust findings?***

George Davey-Smith, Department of Social Medicine, University of Bristol, UK

12.50 General discussion

13.05 Award of Student Prize and Close of meeting

POSTER PRESENTATIONS

GROWTH AND DEVELOPMENT

Risk factors for the metabolic syndrome in South Asian migrants in the UK

W.O. Johnson & N. Cameron

Centre for Human Development, Loughborough University, UK

Factors associated with weight-for-height of young children in rural Bangladesh

A. Ezeogbulafor & V. Tuffrey

Centre for Public Health Nutrition, University of Westminster, UK

GENETICS

Genetic characterization at the mtDNA level of the Tuareg from Fezzan (Libyan Sahara)

C. Ottoni¹, C. Martinez-Labarga¹, F. De Angelis¹, E. Trucchi¹, I. Contini¹, G. Biondi² & O. Rickards¹

¹ *Department of Biology, University of Rome "Tor Vergata", Italy*

² *Department of Environmental Sciences, University of L'Aquila, Italy*

Structure of the Olivenza population by analysis of repeated pairs of surnames in Spanish and Portuguese lineages

J. Román¹, S. Colantonio², M.J. Blanco³, M.J. Guardado⁴, P. Zuluaga⁵ & V. Fuster¹

¹ *Dpto. de Zoología y Antropología Física, Univ. Complutense de Madrid, Spain*

² *Cátedra de Antropología, Univ. Nal. de Córdoba, Argentina*

³ *Fac. Biología, Universidad de Salamanca, Spain*

⁴ *Dpto. de Ciências Sociais e da Educação, Inst. Politécnico de Castelo Branco, Portugal*

⁵ *Dpto. de Estadística e I.O., Univ. Complutense de Madrid, Spain*

ECOLOGY AND ADAPTATION

Grandparental investment patterns: Does it matter who you ask?

D.A. Coall¹, B. Marti¹, R.Hertwig¹, M. Wänke¹ & F. Höpflinger²

¹ *Department of Psychology, University of Basel, Switzerland*

² *Department of Sociology, University of Zürich, Switzerland*

The Biology of the Many and the Health of the Individual

S. Lewis

Department of Biological Sciences, University of Chester, UK

Prediction of overweight and obesity in children and adolescents using a scoring system derived from the Foresight obesity systems map

S. Ulijaszek & C. Potter

Unit for Biocultural Variation and Obesity, University of Oxford, UK