



THE GUY FOUNDATION

2022 AUTUMN SERIES PROGRAMME

Quantum Mitochondria: energy, information and implications for health and disease

All sessions 15:00hrs – 17:00hrs UK-time on Zoom

The Guy Foundation online symposia have explored topics ranging from the fundamental concepts of quantum mechanics to their application in new therapeutics. A consistent theme has been the importance of mitochondria in almost every context and with this in mind, mitochondria will be our focus for the 2022 Autumn Series. We will explore how they respond to different conditions, how they have optimised their function with respect to Earth's specific magnetic and gravitational field and consider the implications for health and disease.

Session 1: Wednesday 21 September

Opening session: COVID-19, mitochondria and the quantum underground

Introduction: Professor Geoffrey Guy, Founder and Chairman, The Guy Foundation

Professor James Moon, Professor of Cardiology, UCL and Clinical Director of Imaging, Barts Heart Centre

Professor Alistair Nunn, Research Centre for Optimal Health, University of Westminster and Director of Science, The Guy Foundation

Session 2: Wednesday 5 October

Mitochondrial dysfunction: relevance for Chronic Fatigue Syndrome and long COVID

Introduction: Dr Rhys Mould, University of Westminster

Professor Karl Morten, Nuffield Department of Women's and Reproductive Health, University of Oxford

Session 3: Wednesday 19 October

Mitochondria and magnetic fields, spin and reactive oxygen species

Introduction: Betony Adams, The Guy Foundation

Professor Clarice Aiello, Quantum Biology Tech Lab (QuBIT), UCLA

Professor Wendy Beane, Department of Biological Sciences, Western Michigan University

Session 4: Wednesday 2 November

Mitochondria, bioenergetics, information and electric fields: implications for repair and regeneration

Introduction: Professor Alistair Nunn, The Guy Foundation

Professor Michael Levin, Allen Discovery Centre, Tufts University

Professor Wayne Frasch, Biomedicine and Biotechnology faculty group, Arizona State University

Session 5: Wednesday 16 November

Mitochondria and fields: implications for space exploration

Introduction: Professor Alistair Nunn, The Guy Foundation and **Steve Thorne**, The Copernican Project

Dr Afshin Beheshti, KBR at NASA Ames Research Center

Session 6: Wednesday 30 November

Roundtable meeting

Professor Douglas C Wallace, Director, Center for Mitochondrial and Epigenomic Medicine at The Children's Hospital of Philadelphia Research Institute

Roundtable discussion co-chaired by Professor Geoffrey Guy and Professor Douglas Wallace

Attendance is by invitation. To register your interest, contact Nina Copping: n.copping@theguyfoundation.org



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Previous speakers

Professor Margaret Ahmad	Sorbonne University
Professor Masashi Aono	Keio University
Professor Jimmy Bell	University of Westminster; Scientific Advisor to The Guy Foundation
Professor Stanley Botchway	Central Laser Facility, UKRI; Scientific Advisor to The Guy Foundation
Dr Wolfgang Brysch	MetrioPharm AG
Dr Ed Calabrese	University of Massachusetts
Professor Michal Cifra	Czech Academy of Sciences
Dr Dave Ecker	Ionis Pharmaceuticals
Professor Matthew Fisher	University of California Santa Barbara
Professor Wayne Frasch	Arizona State University; Scientific Advisor to The Guy Foundation
Professor Michael Hamblin	University of Johannesburg
Dr Theodore Goodson	University of Michigan
Dr Lise Hébert	Klox Technologies
Professor Judith Klinman	UCLA Berkeley
Dr Philip Kurian	Howard University; Scientific Advisor to The Guy Foundation
Professor Nick Lane	University College London
Professor Mike Levin	Allen Discovery Center at Tufts University
Professor Alistair Nunn	University of Westminster; Director of Science, The Guy Foundation
Professor Marco Pettini	Aix-Marseille University
Professor Martin Plenio	Ulm University
Dr Jan Pokorný	Czech Academy of Sciences
Professor Gregory Scholes	Princeton University
Professor Christoph Simon	University of Calgary
Professor Li-Heui Tsai	Picower Institute, MIT
Professor Jack Tuszyński	University of Alberta
Professor Gábor Vattay	Eötvös Loránd University
Brent Vaughan	Cognito Therapeutics
Professor Giuseppe Vitiello	University of Salerno
Professor Douglas C Wallace	The Children's Hospital of Philadelphia (CHOP)
Professor Steve Wedge	Cancer Research UK

Written proceedings and video recordings of previous lecture series
are available on our website:

www.theguyfoundation.org