



THE GUY FOUNDATION

2022 SPRING SERIES PROGRAMME

From quantum bench to bedside: how to realise the potential of quantum biology in medicine?

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

Over the last two years The Guy Foundation lectures have explored a range of quantum biology and bioenergetics research areas, from principles of fundamental physics to quantum biology and its relevance to health and disease. Some of the lectures have touched on the challenges scientists can face in furthering their work towards application.

In the 2022 Spring Series the Foundation will therefore consider how quantum biology research might be translated into advancing medicine. The programme includes talks on quantum biology research as well as talks that give various perspectives, insights and examples of bringing new therapeutics to practice. As well as building on our knowledge of the science, we hope these lectures will help us think about the steps that are needed for quantum biology research to lead to new therapeutics and advances in medicine.

Session 1: Wednesday 9 March

Electromagnetic fields and cancer and the therapeutic perspective

Dr Jan Pokorný, Institute of Physics, Academy of Sciences of the Czech Republic

Professor Steve Wedge, Professor of Stratified Cancer Medicine Discovery at Newcastle University and Head of the Cancer Research UK (CRUK) Newcastle Drug Discovery Unit

Session 2: Wednesday 23 March

Natural products as redox modulators and the therapeutic perspective

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

Dr Wolfgang Brysch, Chief Scientific Officer and Chief Medical Officer, MetrioPharm AG

Session 3: Wednesday 6 April

Entangled Posner molecules and the therapeutic perspective

Professor Matthew Fisher, Professor of Physics, University of California Santa Barbara

Dr Dave Ecker, Co-Founder and Vice-President of Strategic Innovation, Ionis Pharmaceuticals

Session 4: Wednesday 27 April

Light-matter interactions and the therapeutic perspective

Professor Gregory Scholes, William S. Tod Professor of Chemistry, Princeton University

Dr Lise Hébert, Senior Vice-President, Research and Clinical Affairs, Klox Technologies

Brent Vaughan, CEO, Cognito Therapeutics

Session 5: Wednesday 11 May

Roundtable meeting

Professor Geoffrey Guy, Founder and Chairman, The Guy Foundation – *closing talk*

Roundtable discussion

Attendance is by invitation from The Guy Foundation www.theguyfoundation.org



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PREVIOUS SPEAKERS

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| Professor Margaret Ahmad | Sorbonne University, France |
| Professor Masashi Aono | Keio University, Japan |
| Professor Jimmy Bell | University of Westminster, UK; and Scientific Advisor to The Guy Foundation |
| Professor Stanley Botchway | Central Laser Facility, STFC-UKRI, UK; and Scientific Advisor to The Guy Foundation |
| Dr Ed Calabrese | University of Massachusetts, USA |
| Professor Michal Cifra | Czech Academy of Sciences, Czech Republic |
| Professor Wayne Frasch | Arizona State University, USA; and Scientific Advisor to The Guy Foundation |
| Professor Michael Hamblin | University of Johannesburg, South Africa |
| Dr Theodore Goodson | University of Michigan, USA |
| Professor Judith Klinman | UCLA Berkeley, USA |
| Dr Philip Kurian | Howard University, USA; and Scientific Advisor to The Guy Foundation |
| Professor Nick Lane | University College London, UK |
| Professor Mike Levin | Allen Center at Tufts University, USA |
| Professor Alistair Nunn | University of Westminster, UK; and Director of Science, The Guy Foundation |
| Professor Marco Pettini | Aix-Marseille University, France |
| Professor Martin Plenio | Ulm University, Germany |
| Professor Gregory Scholes | Princeton University, USA |
| Professor Christoph Simon | University of Calgary, Canada |
| Professor Li-Heui Tsai | Picower Institute, MIT, USA |
| Professor Jack Tuszyński | University of Alberta, Canada |
| Professor Gábor Vattay | Eötvös Loránd University, Hungary |
| Professor Giuseppe Vitiello | University of Salerno, Italy |
| Professor Douglas C Wallace | The Children's Hospital of Philadelphia (CHOP), USA |

**Written proceedings and video recordings of previous lectures
are available on our website:**

www.theguyfoundation.org