



THE GUY FOUNDATION

## QUANTUM BIOLOGY & BIOENERGETICS ONLINE LECTURES 2021 SPRING SERIES: PROGRAMME AND INVITED PARTICIPANTS

*Series Chair: Professor Geoffrey Guy, Founder and Chairman, The Guy Foundation*

### Opening session: Wednesday 3 March

14:00hrs-16:00hrs GMT

**Professor Alistair Nunn**, Director of Science, The Guy Foundation; Visiting Professor, University of Westminster - *The shape of life from the beginning: the role of electromagnetic fields in the prebiotic world*

**Dr Philip Kurian**, Quantum Biology Laboratory, Howard University; Scientific Advisor – *What is life today? Light as scaffold for organising whole biological systems, and the future of quantum immortality*

### Session 2: Wednesday 17 March

14:00hrs-16:00hrs GMT

**Professor Wayne Frasch**, Biomedicine and Biotechnology Faculty Group, Arizona State University; Scientific Advisor – *Introductory talk*

**Professor Masashi Aono**, Graduate School of Science and Technology, Keio University - *Amoeba-based combinatorial optimization problem solver as a potential platform for quantum-bio computing*

### Session 3: Wednesday 31 March

14:00hrs-16:00hrs GMT

**Professor Stanley Botchway**, Central Laser Facility, STFC/UKRI, Harwell; Scientific Advisor – *Introductory talk*

**Dr Michal Cifra**, Institute of Photonics and Electronics, The Czech Academy of Sciences – *How do cells generate and respond to electromagnetic fields?*

### Session 4: Wednesday 21 April

14:00hrs-16:00hrs GMT

**Dr Philip Kurian**, Quantum Biology Laboratory, Howard University; Scientific Advisor – *Introductory talk*

**Dr Li-Huei Tsai**, The Picower Institute for Learning and Memory, Massachusetts Institute of Technology – *Noninvasive sensory stimulation to induce gamma entrainment and neuroprotection*

### Session 5: Wednesday 26 May

15:00hrs-17:00hrs GMT (please note the later start time)

**Professor Wayne Frasch**, Biomedicine and Biotechnology Faculty Group, Arizona State University; Scientific Advisor – *Introductory talk*

**Professor Judith Klinman**, School of Chemistry, UC Berkeley - *At the interface of quantum and classical behavior in nature: looking into the eye of quantum tunneling in enzymes and the role of a noisy environment*

### Closing session: Wednesday 9 June

14:00hrs-16:30hrs GMT

**Summary of the series talks and roundtable discussion**

Attendance by invitation. For details and to contact us, visit our website: [www.theguyfoundation.org](http://www.theguyfoundation.org)

## INVITED PARTICIPANTS

<b>The Guy Foundation</b>	
Professor Geoffrey Guy	Chairman and Founder
Professor Alistair Nunn	Director of Science
Professor Jimmy Bell	Scientific Advisor
Professor Stanley Botchway	Scientific Advisor
Professor Wayne Frasch	Scientific Advisor
Dr Philip Kurian	Scientific Advisor
<b>Invited scientists</b>	
Dr Muneer Abbas	Howard University, USA
Dr Betony Adams	University of KwaZulu-Natal, South Africa
Prof Clarice Aiello	QuBIT Lab at UCLA, USA
Professor Masashi Aono	Keio University, Japan
Dr Nathan Babcock	Howard University, USA
Professor László Boros	UCLA School of Medicine, USA
Dr Wolfgang Brysch	MetrioPharm AG, Switzerland
Dr Ed Calabrese	University of Massachusetts, USA
Professor Michal Cifra	Czech Academy of Sciences, Czech Republic
Professor Sonia Contera	University of Oxford, UK
Mr Sangram Deshpande	Shivaji University, India
Dr Georgia Dunston	Howard University, USA
Dr Theodore Goodson	University of Michigan, USA
Dr Matteo Gori	Howard University, USA
Dr Ifi Kalampouka	University of Westminster, UK
Dr Matt Kerr	GW Pharmaceuticals, UK
Dr Youngchan Kim	Leverhulme Centre, University of Surrey, UK
Professor Judith Klinman	College of Chemistry, Berkeley, USA
Professor Nick Lane	University College London, UK
Professor Mike Levin	Allen Center at Tufts University, USA
Dr Alasdair Mackenzie	Central Laser Facility, STFC-UKRI, UK
Dr Rhys Mould	University of Westminster, UK
Professor Rod O'Connor	Aix-Marseille University, France
Professor Francesco Petruccione	University of KwaZulu-Natal, South Africa
Professor Marco Pettini	Aix-Marseille University, France
Professor Martin Plenio	Ulm University, Germany
Dr Marie Woolley Roberts	GW Pharmaceuticals, UK
Mr Alejandro Sanchez-Pedreno Jimenez	Leverhulme Centre, University of Surrey, UK
Professor Gregory Scholes	Princeton University, USA
Dr Ilya Sinayskiy	University of KwaZulu-Natal, South Africa
Dr Diogo Silva	GW Pharmaceuticals, UK
Professor Cristoforo Sylvestrie	Université Laval, Canada
Dr Li-Heui Tsai	Picower Institute, MIT, USA
Professor Luca Turin	University of Buckingham, UK
Dr Jack Tuszynski	University of Alberta, Canada
Professor Gábor Vattay	Eötvös Loránd University, Hungary
Professor Giuseppe Vitiello	University of Salerno, Italy
Dr Steve Vogel	NIH, USA
Professor Ben Whalley	GW Pharmaceuticals, UK
Professor Jonathan Woodward	University of Tokyo, Japan