



Big Quantum Biology Meetings, 2023-2024

Calendar invite: Thursdays 7am PST/10am EST/11am BRT/3pm UK/4pm SAST, CEST/11pm JST, Zoom 617 710 5261 Mailing list: groups.google.com/g/bigquantumbiologymeetings

- Sept. 14 Junwoo Kim, Chungbuk National Univ. 🛠 Unravelling the key nuclear motions in photosynthetic exciton dynamics by coherent vibrational spectroscopy
- Sept. 21 Adam Offenbacher, East Carolina Univ. State Identifying productive protein thermal motions associated with hydrogen tunneling in the lipoxygenase reaction and their divergence across the enzyme family
- Sept. 28 Adam Cohen, Harvard Univ. Schrodinger, Turing, and Hodgkin-Huxley: How mathematical analogies can inspire biological insights
- Oct. 05 Markus Arndt, Univ. of Vienna 🗕 From quantum states of biomolecules to quantum tools for nanobiological matter
- Oct. 19 Xiaomin Liu, Max Planck Institute for Polymer Research 💳 Nanomateris for optical super-resolution imaging applications
- Oct. 26 Abdelghani Laraoui, Univ. of Nebraska-Lincoln Signature Diamond quantum sensing microscopy of Fe-triazole spin crossover molecules and Fe-containing biomolecules
- Nov. 02 Aleksandra Radenovic, École Polytechnique Fédérale de Lausanne (EPFL) Calonotronics: Exploring the Path from Biological to Solid-State Nanopores and Back
- Nov. 09 Maksim Grechko, Max Planck Institute for Polymer Research 🧮 Site-specific terahertz spectroscopy of proteins
- Nov. 16 Roberta Croce, Vrije Univ. Amsterdam ZQuenching and Quenchers in Photosynthesis
- Nov. 30 Michal Cifra, Institute of Photonics and Electronics of the Czech Academy of Sciences Landse electric field effects on proteins and cytoskeleton
- Dec. 07 Jessica Wade, Imperial College London 🚟 TBA
- Dec. 14 Ismael Diez-Pérez and Chris Rourk, King's College London and citizen scientist 🗱 Electron tunnelling in ferritin and associated biosystems
- Jan. 04 🛛 Buz Barstow, Cornell Univ. 🛸 Biological Separation of Rare Earth Elements for Energy Technologies
- Jan. 11 Benedetta Mennucci, Univ. of Pisa 💶 The modelling of the mechanisms through which proteins sense and respond to light
- Jan. 18 Margit Egg, Univ. of Innsbruck **From Chrono- to Quantum Biology: about cellular clocks, hypoxia and spins**
- Jan. 25 Ashok Ajoy, Univ. of California, Berkeley 🐸 TBA
- Feb. 01 Eugene Kim, Max Planck Institute of Biophysics Revealing mechanism of DNA loop extrusion by Structural Maintenance of Chromosomes (SMC) motor proteins
- Feb. 08 Andy Marcus, Univ. of Oregon S Studies of local conformations, conformational disorder and dynamics of excitonically-coupled (iCy3)2 dimer-labeled DNA constructs at and near functional binding sites for proteins that drive genome expression
- Feb. 15 Libai Hwang, Purdue Univ. 🐸 TBA
- Feb. 22 Keisuke Goda, Univ. of Tokyo Deciphering the vibrational structure of biomolecules in photosynthetic systems toward quantum bio-inspired photosynthesis
- Feb. 29 Marilyn Gunner, City Univ. of New York 🚝 Electron Tunneling in Photosynthesis: How the electron chooses its way