

# Physics in Biology and Medicine 2022

Maó – Menorca

19-21 October 2022

The Physics in Biology & Medicine 2022 workshop aims at bringing together experts and younger researchers working in related fields, to discuss very recent developments in the context of:

**Biophysical tools & analysis:** Super-resolution microscopy, cryoTEM, AFM, image analysis tools (machine learning)...

**Physical Biology:** Compartmentalization in living cells (space & time); cell & tissue mechanics; non-equilibrium phenomena in biology; active matter...

**Systems Biology:** Collective phenomena; physics of the heart and brain; neuronal networks; biophysics in cancer; metabolic and signalling networks...

**Medical diagnosis and treatment:** Nanotechnology for diagnosis, imaging and therapy; photonics for non-invasive medical imaging; light as a minimally invasive therapeutic agent...

**Role of Physics in Public Health:** Physics of complex systems in infectious diseases, network analysis of public health...

## Invited and Keynote speakers

- Jonas Ries (European Molecular Biology Laboratory)
- Maria Mañosas (Universitat de Barcelona)
- Clara Prats (Universitat Politècnica de Catalunya – BarcelonaTech)
- Roser Sala-Llonch (Universitat de Barcelona)
- Xavier Trepas (Institut de Bioenginyeria de Catalunya)
- Javier Buceta (Institut de Biologia Integrativa i de Sistemes)
- Pere Roca-Cusachs (Institut de Bioenginyeria de Catalunya)
- Gorka Muñoz-Gil (Universität Innsbruck)
- Clara Vilches (Institut de Ciències Fotòniques)
- Jaume Mesquida (Hospital Parc Taulí)
- Arjun Yodh (University of Pennsylvania)

**Deadline Abstract submission: September 5<sup>th</sup> 2022.**

**Deadline Registration: October 1<sup>st</sup> 2022**

Link to the event: <https://tcm2022.upc.edu>

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