Annual Report 2024 – Highlights

CellPAT partners assembled at the annual meeting at Fuglsøcentret

Important events:

- 3 successful PhD defenses from CellPAT PhDs Ali Shahrokhtash, Kirstine Friis Jensen and CellPAT-affiliated Clara Mistegaard
- Kathrine Pedersen and Kirstine Mejlstrup Hymøller handed in their PhD theses in the end of 2024 (defenses in spring 2025)
- Building on research in CellPAT, several grants were awarded to CellPAT PIs (NNF exploratory synergy grant to Duncan Sutherland, ERC consolidator to Julián Valero, Leo foundation project grant to Julián Valero and Steffen Thiel, Lundbeck and NNF Experiment grants to Søren E. Degn)

Research highlights:

CellPAT researchers published several inspiring reviews, presenting exciting state-of-the-art insight and perspectives on B-cell immunology, RNA nanotechnology and programable biointerfaces – all based on research done within the CellPAT framework.

- Søren Degn co-authored "*Towards a unifying model for B-cell receptor triggering*" published in *Nature Reviews Immunology*, offering a fresh perspective on the "start button" of the immune response.
- Former and current CellPAT members of the Kjems group joined forces for "*RNA nanostructures for targeted drug delivery and imaging*" published in *RNA Biology.*
- Duncan Sutherland and his former team member Sadegh Ghorbani authored "*Building better habitats: Spatiotemporal signaling cues in 3D biointerfaces for tailored cellular functionality*" published in *Biointerphases*.

PhD student Kenneth Green was awarded a prestigious scholarship by Fullbright Denmark to support his six months exchange at the Weseman lab at Harvard Medical School and Brigham and Women's Hospital.

PhD student Bo Volf Brøchner spent 6 months in the lab of Nikos Hatzakis at the University of Copenhagen to investigate single particle dynamics in single cell drug delivery.