Paris and live transmission in 11 cities

8:30 – 8:45 Welcome

8:45 – 9:00 Introduction of the day - Franck Lethimonnier, ITMO TS

SESSION 1 - Chair : Isabelle Bloch, Paris & Nathalie Grivel, Paris

9:00 – 9:30 AI in experimental research: digital twins and 3R perspectives - Hugues Berry, Lyon

9:30 – 10:00 Modelling and predicting the progression of neurodegenerative diseases: application to clinical trial design - Stanley Durrleman, Paris

10:00 – 10:30 Focus on the organizational challenges of AI in biomedicine sector - Audrey Vézian, Lyon

SESSION 2 - Chair : Pierre Marquet, Limoges & Marie-Josèphe Leroy-Zamia, Paris

10:30 – 11:00 Artificial Intelligence for the discovery of localization patterns and morphological signatures - Thomas Walter, Paris

11:00 – 11:15 Coffee break

11:15 – 11:45 Modelling and extrapolation from multi-species and multi-dimensional preclinical data to human - Sarah Zohar, Paris

11:45 – 12:15 Using ML to discover the underlying models of medicine - Mihaela van der Schaar, Cambridge, UK


12:55 – 14:15 Lunch break
SESSION 3 - Chair Marie-Christine Jaulent, Paris & Corinne Sébastiani, Paris

- **14:15 – 14:45** Finding is believing: AI reveals the presence of macromolecules in 3D cellular cryogenic electron tomograms - Emmanuel Moebel, Rennes

- **14:45 – 15:15** Cardiovascular digital twins based on biomechanical modeling - Dominique Chapelle, Paris

- **15:15 – 15:45** Natural language processing for data extraction in clinical texts: useful in the context of a pandemic? - Antoine Neuraz, Paris

- **15:45 – 16:15** The digital twins a means to embedding AI from bench to patient’s bedside - Lotfi Senhadji, Rennes

- **16:15 – 16:30** Conclusion - Christian Boitard, ITMO PMN