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
- 12:15 – 12:55 **Key note Lecture Using Machine Learning to Derive New Traits for Cardiovascular Diseases - Patrick Ellinor**, Cambridge, US
- 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