# Avicenna Days 2023
Diversity & Inclusion in the *In Silico* Approaches

## Programme

## October 10th – Focus on Regulatory
### *«Uncovering the regulatory pathway»*

| | |
|---|---|
| 14:00 - 14:05 | Welcome<br>**Roberta Maggi**, *Office Manager, Avicenna Alliance* |
| 14:05 - 14:20 | Introduction to Avicenna Alliance<br>**Thierry Marchal**, *Secretary General, Avicenna Alliance, Ansys* |
| 14:20 - 14:35 | Introduction to the topic<br>**Cécile Rousseau**, *In Silico Application WG, Master of Ceremony, Avicenna Alliance* |
| 14:35 - 14:50 | **"Adoption of Modelling and Simulation-based methods for High Impact applications: An European regulator's perspective"**, Keynote Speaker, **Flora Musuamba**, *Vice Chair person, EMA* |
| 14:50 - 15:05 | **"Uncovering the MIDD Paired Meeting Pathway"**, Keynote Speaker, **Raj Madabushi**, *Associate Director, FDA* |
| 15:05 - 15:20 | **"In silico confidence: the regulatory journey for computational modeling and medical devices"**, Keynote Speaker, **Pras Pathmanathan**, *Senior Scientist, FDA* |
| 15:20 - 15:35 | *BREAK* |
| 15:35 - 15:50 | **"Charting the Future: Unveiling the Regulatory Complexities of In Silico Trials with the Regulatory Agencies"**<br>**Francesco Pappalardo**, *Full Professor, University of Catania, Mimesis* |
| 15:50 - 16:05 | **"A path towards a comprehensive regulatory framework for acceptance of in silico evidence (Countries experiences)"**<br>**Martha De Cunha**, *Policy Development Working Group, Edwards Lifesciences* |
| 16:05 - 16:20 | **"Going *Towards* Good Simulation Practices"**, **Luca Emili**, *GSP Task Force, InSilicoTrials* |
| 16:20 - 16:30 | **"Artificial intelligence-driven drug development against autoimmune diseases"**, Case study<br>**Philippe Moingeon**, *Head of Therapeutic Area, Servier* |
| 16:30 - 16:40 | **'Scoping and Validating an In Silico Clinical Trial: A Case Study on a Shoulder Stem"**, Case study<br>**Jeff Bischoff**, *Senior Research Director, Zimmer Biomet* |
| 16:40 - 16:50 | **"In Silico Advancements in Cardiovascular Device Design and Approval"**, Case study<br>**Simon Sonntag**, *Notified Bodies TF, Virtonomy* |
| 16:50 - 17:00 | **"In-silico trial of intracranial flow diverters replicates and expands insights from conventional clinical trials"**, Case study<br>**Alejandro Frangi**, *UK In Silico Regulatory Innovation TF, University of Manchester* |
| 17:00 - 17:15 | *BREAK* |
| 17:15 - 18:00 | Panel discussion / Round Table.<br>Moderator:<br>**Emmanuelle Voisin**, *CEO and Founder, VCLS*<br>Speakers: |

# Avicenna Days 2023
Diversity & Inclusion in the *In Silico* Approaches

## Programme

**Ulrike Schroeder**, *Senior Project Manager, DIN*
**Puja Myles**, *Director CPRD, MHRA*
**Payman Afshari**, *Senior Principal Engineer, J&J*
**Mark Palmer**, *Senior Chief Technologist for Healthcare, Ansys*

18:00 - 18:15    Wrap up
**Thierry Marchal**, *Secretary General, Avicenna Alliance*

# Avicenna Days 2023
Diversity & Inclusion in the *In Silico* Approaches

## Programme

## October 11<sup>th</sup> – Focus on Research
*«Building reliable models»*

| | |
|---|---|
| 14:00 - 14:20 | Introduction to tasks forces & community-based initiatives<br>**Liesbet Geris**, *Research & Technology WG, Master of Ceremony, Avicenna Alliance, VPHi* |
| 14:20 - 14:50 | **"Why do we need Medical Digital Twins?"**<br>**Frank Rademakers**, Keynote Speaker, *Emeritus Professor Cardiology, KU Leuven* |
| 14:50 - 15:20 | **"Building digital twins for complex human diseases"**, Keynote Speaker, **Anna Niarakis**, *Professor, University of Toulouse III - Paul Sabatier, Center of Integrative Biology, Immune Digital Twin Consortium.* |
| 15:20 - 15:35 | **"Supercomputer-based cardiac virtual human twins"**, **Mariano Vazquez**, *Co-founder, President, and CTO, ELEM Biotech.* |
| 15:35 - 15:50 | **"Conception and evaluation of a biomechanical model of the lowerlimb"**, **Antoine Perrier**, *Strategic and medical chief officer, Twinsight* |
| 15:50 - 16:10 | *BREAK* |
| 16:10 - 16:40 | **"Modeling and Simulation for Treatment Planning in Cardiovascular Disease in SimVascular"**, Keynote Speaker, **Alison Marsden**, *Professor, Stanford University* |
| 16:40 - 16:55 | **"Responses of Hypertensive Virtual Population to Calcium Channel Blocker Treatment: Comparison to a Real Population"**<br>**Robert Hester**, *Professor Emeritus, UMMC (University of Mississippi Medical Center)* |
| 16:55 - 17:00 | Introduction to the round table – **Marc Horner**, *Global Harmonization TF, Ansys* |
| 17:00 - 17:50 | Panel discussion / Round Table.<br>Moderator: **Marc Horner**, *Ansys*<br>Speakers:<br>**Kyriakos Hatzaras** *CEng Programme Officer – EU Policies*<br>**Frank Rademakers**, *KU Leuven*<br>**Anna Niarakis**, *University of Toulouse III*<br>**Alison Marsden**, *Stanford University*<br>**Liesbet Geris**, *VPHi*<br>**Thierry Marchal**, *Ansys* |
| 17:50 - 18:00 | Wrap up<br>**Thierry Marchal**, *Secretary General, Avicenna Alliance* |

# Avicenna Days 2023
### Diversity & Inclusion in the *In Silico* Approaches

## Programme

## October 12<sup>th</sup> – Focus on Patients / Clinicians
### *«Involving and serving the Patients»*

| | |
|---|---|
| 14:00 - 14:05 | Welcome<br>**Roberta Maggi**, *Office Manager, Avicenna Alliance* |
| 14:05 - 14:25 | Introduction to the topic<br>**Cyrille Thinnes**, *Public & Patient Involvement TFL, Master of Ceremony, Avicenna Alliance, NUI Galway* |
| 14:25 - 14:45 | **"Clinical use of 3D modeling and simulation for preoperative planning in congenital heart surgery"**, Keynote Speaker, **David Hoganson** *Assistant in Cardiac Surgery, Department of Cardiac Surgery, Boston Children's Hospital* |
| 14:45 - 15:05 | **"Person Centered Health Care"**<br>Keynote Speaker **Daniel de Schryver**, *Patient Engagement & Advocacy Lead, Janssen* |
| 15:05 - 15:25 | **"It's not just a headache"**<br>Keynote Speaker, **Pascal Derrien**, *CEO, Migraine Ireland* |
| 15:25 - 15:40 | *BREAK* |
| 15:40 - 15:55 | **"Patient Involvement: Myth or indisputable necessity?"**<br>**Anne Thorez**, *Senior Director Patient Engagement, VCLS* |
| 15:55 - 16:10 | **"Use of VR technologies to enhance the clinical uptake of the digital twin"**, **Claudio Capelli**, *Research Associate, University College London* |
| 16:10 - 16:25 | **"Responsible Research and Innovationinin silico Medicine: Bridging the gap between science and public"**, **Zita Van Horenbeeck**, *Social Scientist, VPHi.* |
| 16:25 - 16:35 | **"My experience of being an Embedded Patient Researcher"**, Case study, **Robert Joyce**, *MS Patient Advocate, Embedded Patient Researcher, National University of Ireland, Galway* |
| 16:35 - 16:45 | **"Case studies of PPI involvement in Cancer Research"**, Case study, **Frances Drummond**, *Research Manager, Breakthrough Cancer Research* |
| 16:45 - 16:55 | **"PPI workshop at a scientific congress - the way forward?"**, Case study, **Marlène Mengoni**, *Associate Professor, University of Leeds* |
| 16:55 - 17:05 | **"EUPATI – enhancing patient involvement in research through education"**, Case study, **Maria Dutarte**, *Executive Director, EUPATI* |
| 17:05 - 17:20 | *BREAK* |
| 17:20 - 18:00 | Panel discussion / Round Table<br>Moderator: **Cyrille Thinnes**, *NUI Galway*<br>Speakers:<br>**Avril Kennan**, *CEO @ Health Research Charities Ireland*<br>**Steve Levine**, *Chair of PPI Task Force*, *Sr. Director of Virtual Human Modeling, Dassault Systèmes*<br>**Veronica Popa**, *Digital Patient Engagement Manager, EURORDIS* |

# Avicenna Days 2023

Diversity & Inclusion in the *In Silico* Approaches

## Programme

| | |
|---|---|
| 18:00 - 18:15 | Wrap up |
| | ***Thierry Marchal**, Secretary General, Avicenna Alliance* |