**Program Integrated Pathophysiology**

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| Day | Hour | **W37** | **W38** | **W39** | **W40** | **W41** |
| **Mardi** | **13h15-14h45** | 09/09/25  **A. kheddar** | 16/09/25   1. **Meli** | 23/09/25   1. **Raoul** | 30/09/25  **L.Visier** | 07/10/25  **C. Rivat** |
| **Mardi** | **15h00-16h30** | 09/09/25  **G. Poulen** | 16/09/25  **G. Poulen** | 23/09/25  **K. Yauy** | 30/09/25  **S. Matecki** | 07/10/25  **J. Naudé** |
| **Vendredi** | **8h00-9h30** | 12/09/25  **O. Jonquet** | 19/09/25  **J.P. Cristol** | 26/09/25  **J. De Vos** | 03/10/25  **C. Fattal** | 10/10/25  **Y.M. Pers** |
| **Vendredi** | **9h45-11h15** | 12/09/25  **L. Dagneaux** | 19/09/25  **D. Guiraud** | 26/09/25  **Y. Gerber** | 03/10/25 | 10/10/25  **F. Perrin** |

**Speakers/titles**

**A. kheddar :** Introduction to bionics

**G. Poulen :** Gene therapy and neurosurgery

Deep brain stimulation: Myth or reality?

**O. Jonquet :** Ethics of clinical research

**L. Dagneaux** : Le genou prothétique « augmenté » Mythe ou réalité ?

**Albano Meli :** Organ-on-a-chip and organoids to model the cardiac pathophysiology

**J.P. Cristol :** Oxidative stress : From toxicity to cell interactions

**D. Guiraud :** Bidirectional control of hand prosthesis for amputees

**C. Raoul :** Gene therapy in ALS

**Kévin Yauy** : AI applied to medicine

**J. De Vos :** Cellular therapy in primary ciliary dyskinesia – towards a proof of concept for chronic respiratory diseases

**Y. Gerber :** Ethics and animal experimentation

**L.Visier :** Social aspects of chronic illnesses

**S. Matecki :** Tissue engineering applied to muscle regeneration

**C. Fattal :** Technologies Avancées d’Assistance ou de Suppléance de la déficience motrice du membre supérieur chez la personne lésée médullaire

**C. Rivat :** Pulsed radiofrequency in a pain context

**Y.M. Pers :** The revolution 2.0 in the management of osteoarthritis: challenges and perspectives

**F. Perrin :** Augmented human : from SF to reality

**J. Naudé :** Psychiatrie Computationnelle