**HAV919V. Physiopathologie intégrée : Tronc commun mutualisé à tous M2 Biologie santé tronc commun, TC N°4.**

**Responsables : PERRIN Florence (florence.perrin@umontpellier.fr) et MATEKI Stefan (stephan.matecki@umontpellier.fr).**

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| CM | S37 | S38 | S39 | S40 | S41 |
| **Time** | **Mardi 12/09/2023** | **Mardi 19/09/2023** | **Mardi 26/09/2023** | **Mardi 03/10/2023** | **Mardi 10/10/2023** |
| **13:15-14:45** | **S. Matecki & F. Perrin***Introduction TC4 and FHU REGENHAB***SC1.O1** | **Y. Gerber** *Ethics of animals use in research***SC1.O1** | **O. Jonquet***Ethics of clinical research***SC1.O1** | **A Kheddar***Introduction: Bionics***SC1.O1** | **G. Poulen***Deep brain stimulations***SC1.O1** |
| **15:00-16:30** | **L. Visier***Introduction: chronic diseases***SC1.O1** | **A Meli***Introduction:* *Organoids and organ-on-chip for cardiac pathophysiology in humans***SC1.O1** | **F. Rage***Modeling a 2D mature and functional human neuromuscular junction using microfluidics devices***SC1.O1** | **T. Guiho/ C. Fatal***Implants à visée de restauration des fonctions motrices.* **SC1.O1** | **S. Matecki***Repair and regeneration of skeletal muscle.* **SC1.O1** |
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|  | **Vendredi 15/09/2023** | **Vendredi 22/09/2023** | **Vendredi 29/09/2023** | **Vendredi 06/10/2022** | **Vendredi 13/10/2023** |
| **8:00-09:30** | **J.P. Cristol***Introduction: oxydative stress***SC1.O1** | **J. de Vos***Tissue engineering applied to lung tissue***SC1.O1** | **K. Yauy***Artificial intelligence and medicine***SC1.O1****S. Matecki***Tissue engineering applied to muscle tissue***SC1.O1** | **T. Guiho/ C. Fatal***Implants à visée de restauration des fonctions motrices.***SC1.O1** | **Y M Pers***“The bionic revolution in the management of osteoarthritis: challenges and perspectives***SC1.O1** |
| **9:45-11:15** | **L. Dagneaux** **SC1.O1** | **C. Rivat***Pulsed radiofrequency in a pain context***SC1.O1** | **T. Guiho/ C. Fatal***Implants à visée de restauration des fonctions motrices.* **SC1.O1** | **F. Perrin**Augmented Human**A5.06** |