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

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| CM | S36 | S37 | S38 | S39 | S40 |
| **Time** | **Mardi 07/09/2021** | **Mardi 14/09/2021** | **Mardi 21/09/2021** | **Mardi 28/09/2021** | **Mardi 05/10/2021** |
| **13:15-14:45** | **L. Visier***Introduction : chronic diseases***SC12.01** | **A Kheddar***Introduction: Bionics***SC12.01** | **C. Rivat***Pulsed radiofrequency in a pain context.* **SC12.01** | **G. Carnac***Repair and regeneration of skeletal muscle.* **Amphi Ziegelmann** | **Y M Pers***“The bionic revolution in the management of osteoarthritis: challenges and perspectives " »***SC12.01** |
| **15:00-16:30** | **J.P. Cristol***Introduction : oxydative stress***SC12.01** | **A Meli***Introduction:* *Organoids and organ-on-chip for cardiac pathophysiology in humans***SC12.01** | **D. Guiraud***Electrical stimulation for sensory feedback in amputees***SC12.01** | **F. Rage***Modeling a 2D mature and functional human neuromuscular junction using microfluidics devices***Amphi Ziegelmann** | **C. Jorgensen***The FHU REGENHAB***SC12.01** |
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|  | **Vendredi 10/09/2021** | **Vendredi 17/09/2021** | **Vendredi 24/09/2021** | **Vendredi 01/10/2021** | **Vendredi 08/10/2021** |
| **8:00-09:30** | **F. Perrin***Introduction : ethics of animal research***SC12.01** | **C. Azevedo***Electrical stimulation for rehabilitation - functional replacement (orthosis / exoskeletons)***A36.02** | **G. Poulen***Deep brain stimulations****ZOOM*** | **S. Matecki***Tissue engineering applied to muscle tissue***Amphi Giraud** | **FHU REGENHAB** |
| **9:45-11:15** | **O. Jonquet***Introduction :**Ethics of clinical research***SC12.01** | **C. Azevedo/D. Guiraud***Brain computer interface***A36.01** | **F. Perrin***Augmented Human****ZOOM*** | **J. de Vos***Tissue engineering applied to lung tissue***Amphi Giraud** |