**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** |