# **SBMS annual meeting 2021: "Tour de Suisse" of Technology June 8th 2-6pm virtual**

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|  | 14.00-14.10 | **S. Verrier, V. Stadelmann** SBMS | Welcome - Introduction |
| **Session 1: Biomechanics & Imaging** | 14.10-14.40 | **Keynote: Prof. Claire Acevedo** F2 Group- Fracture and Fatigue of Skeletal Tissues Lab, Salt Lake City, US | * Lab presentation * **Michael Sieverts:** "Pushing the limits of Synchrotron Micro-Tomography Understanding Bone’s Fracture Mechanism Using Digital Volume Correlation Enabled by Deep Learning". |
| 14.40-15.10 | **Prof. Ph. Zysset**: ARTORG Center of Biomedical Engineering Research, University of Bern | * Lab presentation * **Mathieu Simon**, Indermaur M., Schenk D., Mahdi T., Willie B. and Zysset Ph.: “Fabric-Elasticity Relationships of Tibial Trabecular Bone are Similar in Osteogenesis Imperfecta (OI) and Healthy Individuals”. |
| 15.10-15.40 | **Prof. Jeroen Geurts:** Translational Bone Research Lab, Dpt of Musculoskeletal Medicine, Lausanne University Hospital (CHUV) | * Lab presentation * **Olivier Roessinger**: "PTA-enhanced micro-CT for 3D visualization of chondropathy in degenerative facet joints". * **Jeroen Geurts**: "Ex vivo biomarker profiling identifies Oncostatin-M as spine osteoarthritis-specific target". |
| 15.40-16.10 | **Dr. Vincent Stadelmann:** Lower Extremities Research Group, Schulthess Klinik, Zürich | * Lab presentation * **Sandra Alvarez**: "Loss of tissue mineralization below cartilage defects is associated with   clinical and surgical outcomes of osteoarthritis".   * **Marc-Antoine Burch,** Keshishian A., Wittmann C., Nehrbass D., Styger U., Muthukrishnan G., Arens D., Richards R;G., Stadelmann V.A:, Moriarty F., Thompson K. **(ARI, Regenerative Orthopaedics):** 'The non-steroidal anti-inflammatory drug carprofen negatively impacts bone formation and antibiotic efficacy in a rat model of orthopaedic device-related infection.' |
|  | 16.10-16.30 | **Coffee break & virtual social interactions** [**https://gather.town/app/YUpZJMb4te6lPds9/SBMS%202021**](https://gather.town/app/YUpZJMb4te6lPds9/SBMS%202021) | |
| **Session 2: Biology & Regeneration** | 16.30-17.00 | **Dr. Sophie Verrier:** AO Research Institute Davos (ARI) | * Lab presentation * **Zhen Li (Regenerative orthopaedics):** "Osteochondral explant ex-vivo models for the investigation of joint pathology and therapy". * **Jan Barcik (Concept development**): "Active fixator system for systematic in vivo investigation of fracture healing processes." |
| 17.00-17.30 | **Dr. Cyril Thouverey** Service of Bone Diseases, Department of Medicine, University Hospital of Geneva | * Lab presentation * **Cyril Thouverey** J. Brun, J. Caverzasio, S. Ferrari: "Primary cultures of osteoblasts from adult mouse bone." |
| 17.30-18.00 | **Prof. Benjamin Gantenbein:** Bone & Joint Research Program of the Department for BioMedical Research (DBMR), University of Bern | * Lab presentation * R. Cabra, S. Dolder, W. Xie, S. Lorenz, R. Weber, C. Mosimann, **Fatemeh Safari**, W. Hofstetter. "Iron and Osteoclast Biology". * **Franziska. Strunz**, M. Siegrist, N. Saulacic, M. Bohner, W. Hofstetter. "Repair of a critical size defect in osteoporotic mice". |