

Wahlfach “Biology Meets Mechanics 2: Muskuloskeletale Regeneration und Softskills in Orthopädie und Unfallchirurgie”

20.01.23			
8:30 -10:00	Vorlesung I Bone mechanobiology	(Tschaffon-Müller)	Hörsaal
10:10-11:40	Vorlesung II Bone fracture healing: How can mechanics improve it?	(Fischer)	Hörsaal
11:40-12:30	Pause		
12:30-14:00	Vorlesung III Intervertebral disc mechanobiology	(Neidlinger-Wilke)	Hörsaal
14:00 – 15:30	Praktika I-II 1. Fluid flow stimulation of bone cells 2. Intervertebral disc culture model under mechanical loading	(Fischer/Tschaffon-Müller) (Teixeira)	Zell-1 KnieSi
15:30-17:00	Vorlesung IV Animal models for musculoskeletal research: experimentation and welfare	(Stein)	Hörsaal

21.01.23			
8:30 – 10:00	Vorlesung V Pathomechanisms of posttraumatic osteoarthritis	(Riegger-Koch)	Hörsaal
10:10 -11:40	Vorlesung VI Biomaterials in orthopaedic applications	(Teixeira)	Hörsaal
11:40-12:30	Pause		
12:30-14:00	Vorlesung VII Tissue engineering and organoid models for bone and cartilage	(Haffner-Luntzer)	Hörsaal
14:00-15:30	Praktika III-IV 3. Ex vivo cartilage mechanical trauma model 4. In vitro biological testing of biomaterials	(Riegger-Koch) (Teixeira)	KnieSi Zell-1
15:30-17:00	Praktika V-VI 5. Muskuloskeletale research: literature interpretation 6. Literature presentation and discussion	(Teixeira/Fischer) (Teixeira/Fischer)	Hörsaal Hörsaal