

**SIMBIO-M 2024 - Provisional Agenda - Time (UK).**

Session Id	Session Name	Start	End	First Name	Family Name	Presentation Title
	KEYNOTE 1	08:00	08:10	Christophe	Bastien	Welcome and agenda
		08:10	09:00	Jorg	Fehr	Active Human Models for the Assessment of Injury Patterns in Whiplash Trauma – Simulation and Experiment
						SESSION 1: CHAIR: Peter / MODERATOR: Michel
1	Technologies and Innovations	09:00	09:20	Vadhiraj	Shrinivas	Physics-based reinforcement for AI in Safety Critical Systems
1		09:20	09:40	Akingbeja	Fadele Oluwaseyi	Assessing the Tribological Performance of Disposable and Reusable Sanitary Pads
1		09:40	10:00	Michael	Laughton	Viscoelastically active sutures to promote wound healing
1		10:00	10:20	Catherine	Hill	Development of a Test Platform Mechanically Representative of Human skin for Performance testing of Wound Healing Devices
1		10:20	10:40	Aimee Pascaline	N. Unkundiye	AI and Mathematical Approaches for Predicting Tumour Progression
1		10:40	11:00	Charlotte	Le Mouel	Optimal merging of kinematic and kinetic information to determine the position of the whole body Center of Mass
						END OF SESSION 1
						SESSION 3: CHAIR: Kambiz / MODERATOR: Christophe
3	Industrial applications	11:00	11:20	Vaibhav	Kulkarni	Repositioning of computational Human full-body model of 95th Indian male
3		11:20	11:40	Khuyagbaatar	Batbayar	Ground reaction forces and kinematics of sprinting using wearable systems
3		11:40	12:00	Vincent	Dampuré	Enhancing Vehicle Safety with Altair Technology using Human Body Models in Virtual Testing
3		12:00	12:20	Mohamed	Galal	Emergency Braced Positioning of Aircraft Occupants using Oasys PRIMER
3		12:20	12:40	Okamura	Masahiro	Applications of THUMS® for assessment of injury during sports and daily activities
						END OF SESSION 3
						LUNCH BREAK
						START SESSION 2 (SESSION CHAIR: Michel / QUESTION MODERATOR: Peter)
2	Transport Applications	14:00	14:20	Marine	Dorsemaine	Analysis of the influence of the velocity on the injury mechanisms, typology and severity in car accidents
2		14:20	14:40	Alexander	Diederich	Assessing Occupant Safety in Automated Driving Scenarios
2		14:40	15:00	Raj	Desai	Modelling of a seated human body model for occupant ride comfort
2		15:00	15:20	Clive	Neal-Sturgess	Coevolution and the Mass Ratio Effect in Automotive Safety Research.
2		15:20	15:40	Andrew	Harrison	Initial Evaluation of Underrepresented Occupants in Highly Autonomous Vehicles using VIVA+ Human Body Model
2		15:40	16:00	Oktobia	Erian	Instrumentation of Finite Element Human Body Models for Simulating Tram-Pedestrian Collision Scenarios
2		16:00	16:20	Alaa Aldin	Ghazal	Development of a Wearable Head Impact Monitoring Device for Bikers
2		16:20	16:40	Sophie	Bonte	Numerical Reconstruction of a mountain biking "Over-the-Bars" fall
2		16:40	17:00	Manlius	Thais	Effect of brain personalization on the response of a finite element head model in a car accident reconstruction
2		17:00	17:20	Giulia	Pascoletti	A Novel Anthropomorphic Biomechanical Model of the Human Body: a Pedestrian-Car Impact Study
						END OF SESSION 2
	KEYNOTE 2	08:00	08:10	Christophe	Bastien	Welcome / agenda/ Summary of Day 1
		08:10	09:00	Gianluca	Tozzi	Advances in imaging-based measurements and artificial intelligence for the characterisation of musculoskeletal tissues and biomaterials'
						START SESSION 4 (morning session) (SESSION CHAIR: Morgane / QUESTION MODERATOR: Christophe)
4	Healthcare Applications (morning session)	09:00	09:20	Muhammad Asfand	Sohail	Fracture toughness of an industrially supplied cancellous bone simulant
4		09:20	09:40	George	Morgan	Three-Dimensional Simulation of Fracture Healing with Two Different Fracture Fixation Devices#
4		09:40	10:00	Massimo	Cavacece	Vibration reductions in the use of Brush Cutter
4		10:00	10:20	Massimo	Cavacece	Modification of Psychophysical Laws in Auditory Intensity Perception
4		10:20	10:40	Anne-Sophie	Caro	Predicting Early-Stage Damage in Pelvic Soft Tissues Using Hyper-Viscoelastic Modeling
4		10:40	11:00	Aurelien	Ardisson	Implementation of an Enhanced Hill-Type Model for muscle contraction simulation in the OpenRadioss software
4		11:00	11:40	Irshad	Talal Bin	A numerical musculo-skeletal model of the shoulder for the study of the biomechanics of the sternoclavicular joint
						END OF SESSION 4 (morning session)
						LUNCH BREAK
						START SESSION 4 (afternoon session) (SESSION CHAIR: Michel / QUESTION MODERATOR: Morgane)
4	Healthcare Applications (afternoon session)	13:00	13:20	Saheed	Ademuyiwa	Design of Cellular Hexagonal and Cancellous-like plates for laminectomy
4		13:20	13:40	Giovanni	Putame	Development of a Musculoskeletal Model as an In-Silico Tool to Enhance Prosthesis Design in Mandibular Reconstruction
4		13:40	14:00	Pierre-Guillaume	Champavier	Motion analysis of surgeons during ex-situ pressurized cadaveric liver left lateral sectionectomy to shorten the learning curve
4		14:00	14:20	Maryum	Shifa	Design and development of a smart jacket system for AI-integrated diagnosis of pulmonary diseases
4		14:20	14:40	Dorian	Sweidy	A Finite Element Model of a Post-Traumatic Ventricular Septal Defect in Asymptomatic and Symptomatic Hearts
4		14:40	15:00	Maz	Aljunaydi	Investigation the use of magnetic materials to align nerve fibres in severed nerves
4		15:00	15:20	Thomas	Cloake	Improving the care of patients with severe lower limb trauma using a Bayesian Network
						END OF SESSION 4 (afternoon session)
		15:20	16:00	SIMBIO-M	Team	Closing remarks from the SIMBIO-M 2024 Team / Survey / Prize Draw
		16:00	SIMBIO-M 2024 conference Closes			

Tuesday, 24th September / Day 1

Wednesday, 25th September / Day 2