

Wednesday, 24th of July 2019

When	What	Who	Title	Link
17:00-18:00	Ignite Session	<u>Kai Budde</u> Nominee: Julius Zimmermann	“Requirements for Documenting Electrical Cell Stimulation Experiments for Replicability and Numerical Modeling”	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_2.html#wed19-01_02
18:00-19:30	Poster Presentation	<u>Kai Budde</u> , <u>Julius Zimmermann</u> , Elisa Neuhaus, Max Schröder, Adelinde Uhrmacher, Ursula van Rienen	“Requirements for Documenting Electrical Cell Stimulation Experiments for Replicability and Numerical Modeling”	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_2.html#wepos-14_03
18:00-19:30	Poster Presentation	<u>Abdul Razzaq Farooqi</u> , Julius Zimmermann, Rainer Bader, Ursula van Rienen	“Numerical Simulation of Electro-Active Hydrogels to Be Used for Cartilage Tissue Engineering”	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_2.html#wepos-31_34
18:00-19:30	Poster Presentation	Christian Polley, Thomas Distler, Alina Weizel, Rainer Detsch, Aldo R. Boccaccini, Hermann Seitz	“Preliminary Investigation on 3D-Printed Ti6Al4V Scaffolds with a Bioactive and Electrically Conductive Polymer Coating”	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_2.html#wepos-29_27

Thursday, 25th of July 2019

When	What	Who	Title	Link
10:30-10:45	Oral Presentation	<u>Konstantin Butenko</u> , Christian Rüdiger Bahls, Ursula van Rienen	“Evaluation of Epistemic Uncertainties for Bipolar Deep Brain Stimulation in Rodent Models”	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_3.html#thb18_01
17:00-18:00	Ignite Session	<u>Max Schröder</u> Nominee: Max Schröder	“PROVenance Patterns in Numerical Modelling and Finite Element Simulation Processes of Bio-Electric Systems”	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_3.html#thd08_03
18:00-19:30	Poster Presentation	<u>Yogesh Bansod</u> , Märwan Kebbach, Rainer Bader, Ursula van Rienen	“A Piezoelectric Strain-Adaptive Bone Remodeling Simulation”	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_3.html#thpos-34_30
18:00-19:30	Poster Presentation	<u>Maria Kober</u> , Kathrin Badstübner-Meeske, Felix Bernsdorff, Alexander Storch, Christian Rüdiger Bahls	“Intraoperative Current and Voltage Measurement of Deep Brain Stimulation in a 6-OHDA Hemi Parkinson Rat Model”	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_3.html#thpos-36_14
18:00-19:30	Poster Presentation	<u>Michael Saemann</u> , Märwan Kebbach, Jan-Oliver Sass, Josephine Mauck, Christian Schulze, Daniel Kluess, Rainer Bader	“Influence of Different Boundary Conditions and Averaging Algorithms on Mechanical Behavior in FE Modeling of the Proximal Femur”	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_3.html#thpos-34_27
18:00-19:30	Poster Presentation	<u>Max Schröder</u> , Hendrikje Raben, Frank Krüger, Andreas Ruschinski, Ursula van Rienen, Adelinde Uhrmacher, Sascha Spors	“PROVenance Patterns in Numerical Modelling and Finite Element Simulation Processes of Bio-Electric Systems”	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_3.html#thpos-27_02

Friday, 26th of July 2019

When	What	Who	Title	Link
18:00-19:30	Poster Presentation	<u>Hans-E. Lange</u> , Daniel Klüß	„Mechanical Study on Piezoelectric Energy Harvesting Concepts for an Energy-Autonomous Total Hip Replacement“	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_4.html#rpos-33_48

Saturday, 27th of July 2019

When	What	Who	Title	Link
08:30-10:00	Invited Session	Chairs/Organizers: Ursula van Rienen, Rainer Bader <u>Kristian Franze</u> Christoph Niemann, Franz Plocksties, Jakob Heller, <u>Dirk Timmermann</u> Stefan Reich, Stefan, Markus Sporer, Michael Haas, <u>Maurits Ortmanns</u> <u>Madeleine Lowery</u> , John Fleming, Eleanor Dunn, Karthik Sridhar	“Research on Electrically Active Implants: Theory, Models, Experiments and Clinical Applications” “The Mechanical Regulation of Neuronal Growth and Regeneration” “Towards an Energy Autonomous Platform for Electrically Active Implants” “Design Trade-Offs in Neural Interface ICs” “Computational Modelling of Closed-Loop Deep Brain Stimulation”	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_5.html#saa09
08:30-10:00	Oral Session	Chairs: Yogesh Bansod, Alina Weizel	“Micro/Nano-Bioengineering”	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_5.html#saa07
10:45-11:00	Oral Presentation	<u>Revathi Appali</u> , Kiran K. Sriperumbudur, Ursula van Rienen	“Extracellular Stimulation of Neural Tissues: Activating Function and Sub-Threshold Potential Perspective”	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_5.html#sab18_02
13:00-13:15	Oral Presentation	<u>Yogesh Bansod</u> , Ursula van Rienen	“Numerical Analysis of Electromechanically Driven Bone Remodeling Using the Open-Source Software Framework”	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_5.html#sac07_01
13:45-14:00	Oral Presentation	Alina Weizel, Julius Zimmermann, Alexander Riess, Simone Krüger, Rainer Bader, Ursula van Rienen, Hermann Seitz	“Numerical Simulation of the Electric Field Distribution in an Electrical Stimulation Device for Scaffolds Settled with Cartilaginous Cells”	https://embs.papercept.net/conferences/conferences/EMBC19/program/EMBC19_ContentListWeb_5.html#sac07_04

Presenters are underlined