Organizers

European Society for Artificial Organs (ESAO) & Martin Luther University Halle-Wittenberg

Scientific Committee

Thomas Groth Martin Luther University, Halle, Germany University of Minho, Braga, Portugal Viktoria Weber Danube University Krems, Austria

Local Organising Committee

Sophie Bendix & Christian Willems Martin Luther University, Halle, Germany Christian Schmelzer, Fraunhofer Institute IWMS, Halle, Germany

Contact with local organiser

Sophie Bendix

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Registration & fees

Online by bank transfer only:

www.esao.org/registration-form-esao-winter-school-2020/

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email: anita.aichinger@donau-uni.ac.at

Registration fee before/after Jan. 10, 2020

ESAO Member € 250,-/ € 300,-Non-Member € 300,-/ € 350,-Student € 150,-/ € 200,-

On-site registration only by cash

Credit cards are not accepted





ESAO Winter School 2020 2nd Circular & Preliminary Program

Materials, Surfaces & Cells: Science & Technology for Bio Artificial Organs and Tissue Engineering

> Leucorea Lutherstadt Wittenberg, Germany February 26-29, 2020

> > www.esao.org/winterschool



Venue

Leucorea

Collegienstraße 62 06886 Lutherstadt Wittenberg, Germany https://leucorea.de/en/

The venue Leucorea

The Leucorea was founded 1502 as university and merged in 1817 with the Frederic University in Halle. Today Leucorea is part of Martin Luther University Halle-Wittenberg and used as venue of colloquia, congresses and other meetings. It has several lecture halls, seminar rooms and a cafeteria and is located in the old part of Wittenberg close to many historical sites.

Lutherstadt Wittenberg

Is a town in Saxony-Anhalt, Germany situated on the River Elbe, The town is famous for its close connection with Martin Luther and the Protestant Reformation. Several of Wittenberg's buildings associated with the events, including a preserved part of the Augustinian monastery in which Luther lived, considered to be the world's premier museum dedicated to Luther. Today, Wittenberg is a popular tourist destination, best known for its intact historic centre and various memorial sites dedicated to Martin Luther and Philip Melanchthon added to the UNESCO world heritage list in 1996.

Accommodation

Luther-Hotel Wittenberg phone: +49 3491 4580

mail: <u>info@luther-hotel-wittenberg.de</u>
https://www.luther-hotel-wittenberg.de/en/
65,- € single room/ 85,- € double room

Keyword: "ESAO Winterschool"

Deadline for reservations January 8, 2020

Travel

By car

Lutherstadt Wittenberg is located 30 km from the A9 motorway, which connects Berlin with Munich using federal road No. 187.

By train

http://www.fahrplanauskunft.de/

By airplane

International airports Berlin Tegel (TXL) and Berlin Schönefeld (SFX) are located 90 km north from Wittenberg. Leipzig Airport is located 60 km south. There are train connections from either Berlin main station or Leipzig main station. Take ICE or RE trains from either city to Wittenberg that takes about one hour.

http://www.fahrplanauskunft.de/

Topics

- Biogenic biomaterials
- Engineering of biomaterial surfaces & 3D systems
- Hydrogels, scaffolds, bioprinting, Organ-on-a-Chip
- Stem cell biology and tissue engineering
- Translation from bench to bed site

Poster Sessions

Regular participants are invited to submit abstracts for a poster presentation of not more than 400 words to anita.aichinger@donau-uni.ac.at until February 3, 2020 Poster Awards will be given for best three posters

Social Program

- Get-together
- Guided city tours
- Social dinner

Scientific & Social Program		12:00 – 14:00	Lunch Break	
Wednesday	, February 26	14:00 – 16:00	Guided Tour through Lutherstadt Wittenberg	
13.30 – 16.30	Registration	Session 3	Engineering cellular microenvironments I	
16:30 - 16:40	Welcome & Opening of Winter School	16:30 – 17:20	Engineering the cellular microenvironment with biomaterials and growth factors" Manuel Salmeron Sanchez, Glasgow, Scotland	
16:40 - 17:30	Opening Lecture 1 The roles of materials, surfaces and cells on the engineering of different tissues and organs. Rui Reis, Braga, Portugal	17.20 – 18.10	Programmable cell instructive materials to control cell morphogenesis in vitro' Paolo Netti, Naples, Italy	
17:30 - 18:20	Opening Lecture 2 Elastic biomaterials and advanced wound repair Antony Weiss, Sydney, Australia	18:00 -19:30	Poster Session I with snacks, beer & wine	
18:30 – 20.00 Get together Friday, Februa		ary 28		
		Session 4	Cellular microenvironments	
Thursday, February 27		08:30 - 09:20	Immunological challenges in regenerative medicine Hans-Dieter Volk, Berlin, Germany	
Session 1	Biopolymers I		nans-Dieter Volk, Benni, Germany	
08:30 - 09:10	Synthesis of stimuli-responsive bioactive compounds from polysaccharides Kai Zhang, Göttingen, Germany	09:20 - 10:00	Extracellular vesicles and their roles in inflammation and regeneration Viktoria Weber, Krems, Austria	
09:10 - 09:50	Polysaccharide chemistry and modification for chemical and photochemical cross-linking reactions Matthias Schnabelrauch, Jena, Germany	10:00 - 10:30	Coffee Break	
		Session 5	Cells, Materials & Scaffolds I	
09:50 - 10:20	Coffee Break	10:30 – 11:20	Cell-rich microstructures in bottom-up tissue engineering	
Session 2	Biopolymers II		Joao Mano, Aveiro, Portugal	
10.20 – 11.10	From natural resources to engineered artificial matrices Antonella Motta, Trento, Italy	11.20 – 12.10	Application of improved gellan gum-based scaffolds for Tissue Engineering in vivo Gilson Kang, Jeonju, South Korea	
11:10 – 11:50	Elastin analytics and electrospinning - Understanding the biomolecular world with the power of mass spectrometry Christian Schmelzer, Halle (Saale), Germany	12.10 – 12:50	The interplay between structural and transport properties of the scaffold and cells metabolism in bioengineered tissues Gerardo Catapano, Arcavada di Rende, Italy	

12:40 - 14:30	Lunch Break
14:30 – 16:00	Guided Tour through Workshop of painter Lucas Cranach or Luther Museum
Session 6	Bioengineering cellular microenvironments II
16.00 – 16:50	Polymeric hydrogels: From fundamental physicochemistry to tissue engineering Gloria Gallego Ferrer, Valencia, Spain
16.50 – 17.30	N.N.
17:30 – 19:00	Poster Session II
19:30 – 22:00	Social Dinner

Saturday, February 29

Session 7	Cells, Materials & Scaffolds II
08:30 – 09:10	Biomaterials, Porous Scaffolds and Cells for Advanced Therapies Nuno Neves, Bragha, Portugal
09:10 - 09:50	Clinical translation of fibrin agarose-based artificial tissues Antonio Campos, Granada, Spain
09:50 - 10:20	Coffee Break
Session 8	Bioprinting, Organ-on-Chips and Solid Organ Engineering
10:20 - 11:10	Bioprinting cell laden building blocks for Tissue Engineering applications Claudio Migliaresi, Trento, Italy

11:10 - 11:50	advance medicines Eva Dehne, Berlin, Germany
11.50 – 12:30	Pioneering solid organ bioengineering: past, present and future perspectives, and the politics within Pedro Baptista, Zaragoza, Spain
12:45 - 13:15	Poster Award Ceremony & Closing remarks Thomas Groth, Halle (Saale), Germany