

TUESDAY, 23rd April

Check-in	15:00 - 17:25	Marienlyst Hotel & Conference check-in (poster hanging on 5th floor)
Conference Opening	17:30 - 17:55	Welcome program and Opening of ScSB2024 meeting
Dinner	18:00 - 19:50	Welcome Dinner
19:55 – 21:15 SCIENTIFIC PROGRAMME A Chair: Nihal Engin Vrana	19:55 - 20:30	Plenary Speaker: Prof. Aldo Boccaccini, Uni-Erlangen-Nuremberg, Germany <i>Exploring biologically active ions (bioinorganics) for applications in tissue engineering by investigating bioactive glasses and their composites</i>
	20:35 - 20:45	J Locs, Riga Technical University, Latvia <i>Synthesis and room temperature consolidation of octacalcium phosphate</i>
	20:47 - 20:59	J T Koivisto, Karolinska Institutet, Sweden <i>Biomaterial tools for studying the early phase of osteoblast differentiation and building a 3D in vitro bone model</i>
	21:01 - 21:13	H Ben Amara, University of Gothenburg, Sweden <i>From osteopromotion at the interface to adiposity accumulation in the peri-implant bone marrow: exploring bone response to biodegradable magnesium implants</i>
Poster & Social Event	21:15 - 22:15*	Poster & Social Event *It is voluntary to stay until 22:15.

WEDNESDAY, 24th April

Leisure** & Breakfast (* Spa access: 6:00 - 09:00 am)	06:30 - 07:00 07:00 - 08:30	Yoga Class Breakfast (At Isabel restaurant, it is provided until 10:00 am.)
08:35 – 10:05 SCIENTIFIC PROGRAMME B Chair: Manuel Mazo Vega	08:35 - 09:10	Keynote Speaker 1: Prof. Molly Stevens, Imperial College, UK <i>Designing and translation biomaterials for advanced therapeutics and ultrasensitive biosensing</i>
	09:15 - 09:27	L Hosta-Rigau, Technical University of Denmark, Denmark <i>Multifunctional red blood cell substitutes: a novel approach toward safer and more versatile oxygen carriers</i>
	09:29 - 09:39	G Bor, Technical University of Denmark, Denmark <i>Metal phenolic network-integrated metal-organic framework-based oxygen carriers for enhanced blood circulation</i>
	09:41 - 09:51	E Oreja, University of Oslo, Norway <i>Tannic acid-protein interaction in coated titanium surfaces</i>
	09:53 - 10:03	T Mitra, University of Galway, Ireland <i>3D lung tumour hydrogel phantom: a simulation test bed for microwave</i>
Break	10:05 - 10:25	Coffee break
10:30 – 12:00 SCIENTIFIC PROGRAMME C1 Chair: Menglin Chen	10:30 - 11:05	Keynote Speaker 2: Prof. Yu Shrike Zhang, Harvard Medical School, USA <i>Light-based vat-polymerization bioprinting towards tissue fabrication</i>
	11:10 - 11:20	VS Parihar, Tampere University, Finland <i>Two-step crosslinking approach for development of photo-crosslinkable biomaterial inks for extrusion – based 3D bioprinting</i>
	11:22 - 11:32	A Pylostomou, Riga Technical University, Latvia <i>Condensed orchestration of mesenchymal stromal cells via dynamic temperature-actuated hydrogels</i>
	11:34 - 11:46	X Wang, Åbo Akademi University, Finland <i>Xeno-free and photocurable nanocellulose-based macroporous-gel bioprinting in service of 3D cell culture</i>
	11:48 - 11:58	R Bellan, Eindhoven University of Technology, The Netherlands <i>Tuning the assembly of ureido-pyrimidinone molecules in living systems</i>
11:15 – 11:50 SCIENTIFIC PROGRAMME C2 (Project in 3 minutes) Chair: Fatemeh Ajallouei	11:15 - 11:19	M Motadayan, Aarhus University, Denmark <i>Research of biodegradable nanocomposite based on polyvinyl alcohol and tungsten nanoparticles</i>
	11:20 - 11:24	K Hopia, Tampere University, Finland <i>Novel adhesive and 3D-bioprintable bioinks for treatment of corneal tissue engineering</i>
	11:25 - 11:29	S Yu, Karolinska Institutet, Sweden <i>Versatile gallium-based nanoparticles as antibacterial agents</i>
	11:30 - 11:34	R Jing, Alborg University, Denmark <i>Supramolecular self-healing UV-curable hydrogels without photo-initiator using modified dextrans</i>
	11:35 - 11:39	D Boscaro, Norwegian University of Science and Technology, Norway <i>Alginate encapsulated bone spheroids: approaches to study bone cells in 3D</i>
	11:40 - 11:44	Y Merhi, Århus University, Denmark <i>Unlocking piezoelectric potential: terahertz spectroscopy characterization of crystallinity changes in flexible and bioresorbable poly-L-lactic acid with tunable piezoelectric properties through mechanical stretching</i>
	11:45 - 11:49	V Guerrero-Florez, Linköping University, Sweden <i>Protease-active delivery of antimicrobial peptides from mesoporous silica</i>
Lunch	12:05 - 13:10	Lunch
13:15 – 14:40 SCIENTIFIC PROGRAMME D Chair: Line Hagner Nielsen	13:15 - 13:50	Keynote Speaker 3: Prof. Gorka Orive, Univ. of Basque Country, Spain <i>A Scientific Journey: from Regenerative Medicine to Diagnosis and Health Sustainability</i>
	13:55 - 14:05	Sponsors presentations: Cellink
	14:07 - 14:17	Sponsors presentations: Optics11Life
	14:19 - 14:29	Sponsors presentations: Ourobionics
	14:31 - 14:41	Sponsors presentations: Cybosense
Leisure	14:45 - 16:35	Social Events
Break	16:40 - 17:00	Coffee break
17:05 – 18:20 SCIENTIFIC PROGRAMME E Chair: Sabine van Rijt	17:05 - 17:40	Keynote Speaker 4: Prof. Tina Vermonden, Utrecht University, Netherlands <i>Injectable hydrogels for ocular drug delivery</i>
	17:45 - 17:55	V Tsikourkitoudi, Karolinska Institutet, Sweden <i>NAD-boosting nanoparticle drug delivery system for glaucoma treatment</i>
	17:57 - 18:07	J Amirian, Riga Technical University, Latvia <i>Novel injectable chitosan methacrylate (ChiMa) hydrogel reinforced with oxidized cellulose nanofibers methacrylate (OCNFMA) for hemostatic and wound healing agents</i>
	18:09 - 18:19	E Zattarin, Linköping University, Sweden <i>Multifunctional nanocellulose-based hybrid hydrogel wound dressing for wound infection treatment</i>
Break	18:20 - 18:39	Break
18:40 – 19:50 SCIENTIFIC PROGRAMME F (Project in 3 minutes) Chair: Daniel Alii	18:40 - 19:15	Keynote Speaker 5: Prof. Rui Reis, University of Minho, Portugal <i>Addressing complexity in tissue engineering and ways to engineer different complex in vitro models using polymeric hydrogels and stem cells</i>
	19:20 - 19:24	H Gao, University of Groningen, The Netherlands <i>Tailored design of macrophage-oriented metal-organic frameworks for robust gene silencing</i>
	19:25 - 19:29	M Jolic, University of Gothenburg, Sweden <i>Can mechanically overload implants re-osseointegrate?</i>
	19:30 - 19:34	Q Wang, Åbo Akademi University, Finland <i>Aqueous two-phase emulsion-based bioink enhanced by phosphorylated cellulose nanofibers</i>
	19:35 - 19:39	R Shamasha, Linköping University, Sweden <i>Biofabrication of granular hydrogel-based bioinks for dermal regeneration</i>
	19:40 - 19:44	S Revesz, Technical University of Denmark, Denmark <i>Bioactive, tough, and electroactive hydrogels for skeletal muscle tissue engineering</i>
	19:45 - 19:49	JAV Cordova, Technical University of Denmark, Denmark <i>Cardiac patch of a novel self-healing hydrogel for mending post-infarction defects</i>
Leisure & Dinner	20:00 - 22:00	Dinner & Social Event

THURSDAY, 25th April

Leisure** & Breakfast (* Spa access: 6:00 - 09:00 am)	07:00 - 08:30	Breakfast (at Isabel restaurant, it is provided until 10:00)
08:35 – 09:55 SCIENTIFIC PROGRAMME G Chair: Niels B. Larsen	08:35 - 09:10	Keynote Speaker 6: Prof. Akhilesh Gaharwar, Texas University, USA <i>Engineered biomaterials for reparative and regenerative medicine</i>
	09:15 - 09:27	F Ajallouei, Technical University of Denmark, Denmark <i>Loading and coating of bacterial compounds into/onto electrospun nanofibers for medical applications</i>
	09:29 - 09:41	S Naeimipour, Linköping University, Sweden <i>Enzymatically triggered deprotection and cross-linking of thiolated polymer for 3D cell culture and bioprinting application</i>
	09:43 - 09:53	A Solberg, RISE PFI/RISE Material and Surface Design, Norway/Sweden <i>Biopolymers-based inks for 3D printing</i>
Break	09:55 - 10:15	Coffee break
10:20 – 11:55 SCIENTIFIC PROGRAMME H1 Chair: Hajar Maleki	10:20 - 10:55	Keynote Speaker 7: Prof. Fergal O'Brien, RCSI, Ireland <i>Biomaterials scaffolds for the delivery of gene therapeutics for enhanced tissue repair</i>
	11:00 - 11:12	J U Lind, Technical University of Denmark, Denmark <i>Multi-material printing of bio-hybrid systems</i>
	11:14 - 11:26	H Maleki, University of Cologne, Germany <i>Self-assembly driven biomimetic 3Dprinted hybrid aerogel-based theragenerative scaffolds for bone regenerative and bone cancer therapy</i>
	11:28 - 11:40	C P Pennisi, Aalborg University, Denmark <i>Hydrogel-elastomer interface engineering for cyclic mechanical stimulation of bioprinted 3D tissue constructs</i>
	11:42 - 11:52	M Heilala, Aalto University, Finland <i>Fibrin stiffness regulates phenotypic plasticity of metastatic breast cancer cells</i>
11:05 – 11:45 SCIENTIFIC PROGRAMME H2 Chair: Masoud Hasany	11:05 - 11:17	V Sanjairaj, New York University Abu Dhabi, United Arab Emirates <i>Bioactive tissue scaffolds from decellularised ascidian tunic</i>
	11:19 - 11:31	R V Ramachandran, Karolinska Institutet, Sweden <i>Cost-effective antibacterial wound dressing comprising nanofibers infused with flame-made Ag/SiO2 nanoparticles</i>
	11:33 - 11:43	N Reustle, Linköping University, Sweden <i>3D breast cancer models to study proteolytic activity in vitro</i>
Break	11:55 - 12:55	Lunch
13:00 – 14:20 SCIENTIFIC PROGRAMME I Chair: Mani Diba	13:00 - 13:35	Keynote Speaker 8: Prof. Patricia Dankers, Eindhoven University, Netherlands <i>Engineering supramolecular polymer hydrogels into synthetic extracellular matrices</i>
	13:40 - 13:52	N Ferraz, Uppsala University, Sweden <i>Investigating the effect of conjugation chemistry on the bioactivity of immobilized host defense peptides</i>
	14:06 - 14:16	S Nikzad, Technical University of Denmark, Denmark <i>Water-based inks for use in extrusion 3d printed instrumented tissues</i>
Leisure	14:20 - 16:20	Social Events
Break	16:25 - 16:45	Coffee break
16:50 – 18:40 SCIENTIFIC PROGRAMME J Chair: Johan Ulrik Lind	16:50 - 17:25	Keynote Speaker 9: Prof. Niels B Larsen, Technical University of Denmark <i>Soft materials and methods for engineering oxygen supply</i>
	17:30 - 17:42	M Bjorninen, Tampere University, Finland <i>Creating soft 3D tissue models for studying ischemia in body-on-a-chip systems – A research overview of the centre of excellence in body-on-a-chip- research</i>
	17:44 - 17:54	J van Hoorick, BIO INX, Belgium <i>ASTROCARDIA: A vascular heart-on-a-chip model in space to study cardiac ageing</i>
	17:56 - 18:08	M Chen, Aarhus University, Denmark <i>Exploring electrohydrodynamics based functional nanofibers as multi-dimensional nano-interfaces</i>
	18:10 - 18:40	ScSB 2024 GA Meeting and Board
Break	18:45 - 19:00	Coffee break
19:00 – 20:05 SCIENTIFIC PROGRAMME K Chair: Winnie E Svendsen & Torben Moos	19:00 - 19:35	Keynote Speaker 10: Prof. Sarah Heilshorn, Stanford University, USA <i>Dynamic biomaterials to enable personalized tissue mimics</i>
	19:40 - 20:05	ScSB2024 Awards/Announcements & Pictures
Leisure & Dinner	20:10 - 22:00	Dinner & Conference closing

FRIDAY, 26th April

Leisure** & Departure (* Spa access: 6:00 - 09:00 am)	07:00 - 10:00 10:00 - 6:00	Breakfast Hotel check out
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