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12th International Conference on the Scientific and Clinical Applications of Magnetic Carriers Copenhagen, Dermark | May 22-26, 2018

12th International Conference on the Scientific and Clinical Applications of Magnetic Carriers - Copenhagen, Denmark

Tuesday, May 22, 2018

- 18:00 Registration desk opens in the Maersk Tower (Mærsk Tårnet), Blegdamsvej 3B
- 18:30 Informal reception and welcome cocktail (Apero) in the Maersk Tower, with the Jacob Venndt's Fabulous Swing Trio generously sponsored by chemicell
- 22:00 End of reception

Registration desk opens - at the Niels Jerne Auditorium, Mærsk Támet (Maersk Tower), Blegdamsvej 3B	
Opening of the conference and welcome address by the Vice Dean of Research, University of Copenhagen Copenhagen, Denmin	
Session 1	
Session 1 Hyperthermia Chair: Silvio Dutz	mark
Spatially Controlled and Image Guided Nanoscale Thermal Therapy Saltially Controlled and Image Guided Nanoscale Thermal Therapy Ljubliana, Slovenia Spatially Controlled and Image Guided Nanoscale Thermal Therapy Ljubliana, Slovenia Spatially Controlled and Image Guided Nanoscale Thermal Therapy Spatially Controlled Angeloc November Ljubliana, Slovenia Spatially Controlled Nanoscale Thermal Therapy Spatially Controlled Nanoscale Thermal Therapy Coffee break Spatially Controlled Nanoscale Thermal Therapy Chair Christoph Alex Christoph Alex Christoph Alex Christoph Alex Christoph Nanoscale Thermal Therapy Spatially Controlled Nanoscale Thermal Therapy Spatially Controlled Nanoscale Thermal Therapy Spatially Controlled Nanoscale Therapy Spatially Controlled Nanoscale Thermal Therapy Spatially Controlled Nanoscale Therapy Spatially Christoph Nanoscale Therapy Spatial	nmark Talk 0
Magneto-liposomes as theranostic agents Ljubliana, Slovenia	ıtz
Session 2 Hyperthermia II Chair: Silvo Dutz Silvo Dutz Session 2 Hyperthermia II Chair: Silvo Dutz Silvo Dutz Silvo Dutz Silvo Dutz Chair: Chai	USA Talk 1
Session 2 Hyperthermia II Chair: Silvio Dutz	enia Talk 2
10:30 Beola, Lilianne Differences in cell death mechanism after magnetic hyperthermia treatment depending on the nanoparticle location Madrid, Spain 10:45 Mefford, Thompson Glycoconjugate-Functionalized Magnetic Nanoparticles: A Tool for Selective Killing of Targeted Bacteria Via Magnetically Mediated Energy Delivery Clemson, SC, US/ 11:00 Torres, Teobaldo Intracellular distribution of magnetic nanoparticles and magnetic hyperthermia effects: a Focused lon Beam study Zaragoza, Spain 11:15 Grazú, Valeria Nanobiohybrids for the thermoactivation of a therapeutic enzyme by magnetic hyperthermia 2 Zaragoza, Spain Nanobiohybrids for the thermoactivation of a therapeutic enzyme by magnetic hyperthermia 2 Pankhurst, Quentin Optimal formulation properties and physico-chemical characteristics of iron oxide magnetic nanoparticle heating agents for clinical applications London, UK Spirou, Spiridon Recommendations for in-vitro and in-vivo testing of Magnetic Nanoparticle Hyperthermia combined with Radiation Therapy Athens, Greece 12:00 Merida, Fernando Ultrasonic Potentiation of Magnetic Fluid Hyperthermia/Pifithrin-μ Combined Therapies in Ovarian Cancer Cells Mayaguez, Puerto R 12:15 Lunch Session 3 Magnetic Drug Delivery / Magnetic Targeting I Chair: Christoph Alex Low Frequency Pulsed Electromagnetic Field Applications: Bone and Soft Tissue Repair Lewisville, TX, US/ 14:00 Yagoci Acar, Funda Discovery of self-luminescent polyethyleneimine coated SPIONs and their theranostic applications Istanbul, Turkey 14:15 Shipunova, Victoria A novel method of nanoparticle surface biomodification for the development of effective agents for cancer theranostics Moscow, Russia 14:30 Le, Tuan Anh Development of a Real-Time Two-Dimensional Navigation System of Magnetic Nanoparticles for Targeted Drug Delivery Gwangju, Korea 14:45 Coffee break Session 4 Magnetic Drug Delivery / Magnetic Targeting II Uscaling of Iron Oxide Nanoparticles for Biomedical Applications; The SEON Concept Erlangen, German 15:30 Bianco, Vincent A parallel, multi-ph	
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	any Talk 14
15:45 Fellows Benjamin Heparin Coated Magnetic Nanoparticles for Treatment of In-Stent Restenosis and Prevention of Late Stent Thrombosis Clemson SC USA	JSA Talk 15
Total Control of the	JSA Talk 16
16:00 Jafari, Sahar Magnetically-enabled rapid intra-nasal drug delivery to the brain North Bethesda, MD,	D, USA Talk 17

16:15	Baun, Olga	Mag-Guider: A permanent magnet system to guide and image super-paramagnetic nanoparticles	Mainz, Germany	Talk 18
16:30	Nosrati, Zeynab	Fabrication and Characterization of Magnetic Embolising Microspheres with Potential Application in Magnetic Resonance Navigation Technology	Vancouver, BC, Canada	Talk 19
16:45	Liu, Chih-Hsin	Intravenous Delivery of Tissue Plasminogen Activator by Thermosensitive Magnetoliposomes for Target Thrombolysis	Taoyuan, Taiwan	Talk 20
17:00	Poster session I (Posters 1	I-115) with Beer and Snacks - generously sponsored by micromod / free evening thereafter		
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	day, May 24, 2018			
08:30	Registration desk opens -	at the Niels Jerne Auditorium, Mærsk Tårnet (Maersk Tower), Blegdamsvej 3B		
09:00	Kim, CheolGi	Integrated Magnetophoretic Platform for Precise Manipulation of Living Cells	Daegu, Korea	Invited Talk 21
	Session 5	Analytical Techniques	Chair: Petr Nikitin	
09:45	Connolly, Colin	High-Throughput Single-Nanoparticle Magnetic Analysis Platform Using Diamond Magnetic Imaging	Somerville, MA, USA	Talk 22
10:00	Baffa, Oswaldo	Development of an Optical Pumped Gradiometric System to Detect Magnetic Relaxation of Magnetic Nanoparticles	Ribeirao Preto, Brazil	Talk 23
10:15	Fock, Jeppe	Measured correlation of nanoparticle magnetic moment and hydrodynamic size	Copenhagen, Denmark	Talk 24
10:30	Coffee break			
11:00	Frandsen, Cathrine	Electron holography studies of individual maghemite nanoflowers	Copenhagen, Denmark	Talk 25
11:15	Nikitin, Maxim	Smart Materials Based on Magnetic Nanoparticles for Biosensing and Drug Delivery	Moscow, Russia	Talk 26
	Session 6	Nanotechnology I	Chair: Frank Wiekhorst	
11:30	Abakumov, Maxim	Protein coated magnetic nanoparticles for cancer treatment and diagnostics	Moscow, Russia	Talk 27
11:45	Fratila, Raluca Maria	Clickable magnetic nanoparticles; a new tool for magnetic hyperthermia	Zaragoza, Spain	Talk 28
12:00	Jedlovszky-Hajdu, Angela	Magnetic gelfiber based scaffold for theranostic applications	Budapest, Hungary	Talk 29
12:15	Lunch			
13:15	Glückstad, Jesper	IDEAS TALK: Light Robotics and Its Potential for Integrating With Magnetic Carriers	Copenhagen, Denmark	Invited Talk 30
	Session 7	Nanotechnology II	Chair: Thompson Mefford	
14:00	Tasci, Tonguc Onur	Magnetic Microlassos For Single Cell Capture, Manipulation And Cargo Transport	Boston, MA, USA	Talk 31
14:15	Löwa, Norbert	3D-printing of novel magnetic composites based on magnetic nanoparticles and photopolymers	Berlin, Germany	Talk 32
14:30	Frenea-Robin, Marie	Electroactive Magnetic Nanoparticles for Electrochemical Signal Amplification under Magnetic Attraction on a Microchip Device	Lyon, France	Talk 33
14:45	Schotter, Joerg	NIL-fabricated multifunctional magnetic nanoparticles as probes for homogeneous label-free biosensing	Vienna, Austria	Talk 34
15:00	Ronti, Michela	Structural motifs in Self-Assembling Dipolar Spheres	Vienna, Austria	Talk 35
15:15	Poster session II (Posters	116-256) with coffee and cake		
17:15	Bus leaves to Carlsberg B	rewery		
17:30	Tour of "Visit Carlsberg" fo	ollowed by gala dinner at the Carlsberg mansion and museum; photograph of all the participants		
21:30	End of the evening			
Friday	y, May 25, 2018			
08:30	Registration desk opens -	at the Niels Jerne Auditorium, Mærsk Tårnet (Maersk Tower), Blegdamsvej 3B		
	Session 8	Nanoparticle Synthesis I	Chair: Etelka Tombacz	
09:00	Kasparis, Georgios	Synthesis and Application of Zinc Ferrite Nanoparticles as Agents for Cancer Thermotherapy	London, UK	Talk 36
09:15	Thanh, Nguyen	High Magnetisation, Monodisperse and Water-dispersible CoFe@Pt Core/shell Nanoparticles	London, UK	Talk 37
09:30	Bender, Philipp	Revealing dipolar-coupled moment correlations in clusters of superparamagnetic nanoparticles	Santander, Spain	Talk 38
09:45	Lak, Aidin	Iron deficiencies and structural defects favor magnetic hyperthermia performance of magnetite nanocubes in viscous media	Genoa, Italy	Talk 39
10:00	Coffee break		lak	
-	Session 9	Nanoparticle Synthesis II	Chair: Kathy Saatchi	
10:30	Mefford, Thompson	Quantitative Measurement of Ligand Exchange on Iron Oxides via Radioanalytical Techniques	Clemson, SC, USA	Talk 40
10:45	Secret, Emilie	Synthesis and functionalization of magnetic nanoparticles for remote control of differentiation and oriented growth of neuronal cells	Paris, France	Talk 41
11:00	Mickoleit, Frank	Generation of nano-magnetic hybrid materials by genetic engineering and functionalization of bacterial magnetosomes	Bayreuth, Germany	Talk 42
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11:15	Pividori, Maria Isabel	Magnetic Molecularly Imprinted Polymers - Synthesis and Applications	Barcelona, Spain	Talk 43
11:30	Morales, Maria del Puerto	Assembling magnetic iron oxide cores to produce well-controlled hydrophilic multicore structures	Madrid, Spain	Invited Talk 44
12:15	Lunch			
	Session 10	Magnetic Imaging	Chair: Patrick Goodwill	
13:15	Diamond, Solomon	Progress Towards a Magnetic Nanoparticle Imaging System for Immunohistochemistry	Hanover, NH, USA	Talk 45
13:30	Paysen, Hendrik	Towards functional magnetic particle imaging of endothelial cells	Berlin, Germany	Talk 46
13:45	Frellsen, Louise	Dynamical monitoring of magnetic markers using quantum diamond magnetometry	Copenhagen, Denmark	Talk 47
	Millán, Angel	Avoiding RES retention of magnetic nanoparticles with a dense PEG coating. A biodistribution study by MRI, SPECT, gamma-counting and TEM	Zaragoza, Spain	Talk 48
14:15	Corte-León, Héctor	Quantitative magnetic force microscopy for single magnetic bead characterization	Teddington, UK	Talk 49
14:30	Coffee break			
	Goodwill, Patrick	Magnetic Particle Imaging Emerges into Preclinical Research: Hardware, Nanoparticles, and Animal Models	Alameda, CA, USA	Invited Talk 50
15:45	Goodwill, Patrick	Online Demo of the Momentum™ Magnetic Particle Imaging system from Magnetic Insight Inc.	Alameda, CA, USA	Demo
	Session 11	Magnetic Separation	Chair: Ivo Safarik	
16:15	Zborowski, Maciej	Development of MAGpoint: Rapid Isolation, Detection and Targeted Sequencing of Circulating Tumor Cells (CTCs) from Blood Liquid Biopsies at the Point Of Care	Cleveland, OH, USA	Talk 51
16:30	van Silfhout, Alex	Colloidal Stability of Ferrofluids for Magnetic Density Separation	Utrecht, The Netherlands	Talk 52
16:45	Dempsey, Nora	Efficient capture of highly diffusive magnetic nanoparticles using micro-magnet arrays	Grenoble, France	Talk 53
17:00	Touristic walk to the boat	/ with graduate students as guides		
18.30	Boat tour from "Ved Stran	d" across from Christiansborg Castle / with drinks and snacks		
10.50				
20:00 <mark>Saturd</mark>	Drop off at Nyhavn / free e			
20:00 <mark>Saturd</mark> 08:30	lay, May 26, 2018	at the Niels Jerne Auditorium, Mærsk Tårnet (Maersk Tower), Blegdamsvej 3B Biological Applications I	Chair: Peter Hore	
20:00 <mark>Saturd</mark> 08:30	lay, May 26, 2018 Registration desk opens -	at the Niels Jerne Auditorium, Mærsk Tårnet (Maersk Tower), Blegdamsvej 3B	Chair: Peter Hore Barcelona, Spain	Invited Talk 5
20:00 Saturd 08:30 09:00	lay, May 26, 2018 Registration desk opens - Session 12	at the Niels Jerne Auditorium, Mærsk Tårnet (Maersk Tower), Blegdamsvej 3B Biological Applications I		Invited Talk 5- Talk 55
20:00 Saturd 08:30 09:00 09:45	lay, May 26, 2018 Registration desk opens - Session 12 Roig, Anna	at the Niels Jerne Auditorium, Mærsk Tårnet (Maersk Tower), Blegdamsvej 3B Biological Applications I Magnetic Nanocapsules for Brain Repair after a Stroke	Barcelona, Spain	
20:00 Saturd 08:30 09:00 09:45 10:00	lay, May 26, 2018 Registration desk opens - Session 12 Roig, Anna Weidner, Andreas	at the Niels Jerne Auditorium, Mærsk Tårnet (Maersk Tower), Blegdamsvej 3B Biological Applications I Magnetic Nanocapsules for Brain Repair after a Stroke Protein coated magnetic nanoparticles for medical applications	Barcelona, Spain Ilmenau, Germany	Talk 55
20:00 Saturd 08:30 09:00 09:45 10:00 10:15	lay, May 26, 2018 Registration desk opens - Session 12 Roig, Anna Weidner, Andreas Gigoux, Véronique	at the Niels Jerne Auditorium, Mærsk Tårnet (Maersk Tower), Blegdamsvej 3B Biological Applications I Magnetic Nanocapsules for Brain Repair after a Stroke Protein coated magnetic nanoparticles for medical applications	Barcelona, Spain Ilmenau, Germany	Talk 55
20:00 Saturd 08:30 09:00 09:45 10:00 10:15	Registration desk opens - Session 12 Roig, Anna Weidner, Andreas Gigoux, Véronique Coffee break	at the Niels Jerne Auditorium, Mærsk Tårnet (Maersk Tower), Blegdamsvej 3B Biological Applications I Magnetic Nanocapsules for Brain Repair after a Stroke Protein coated magnetic nanoparticles for medical applications Targeted Magnetic Intra-Lysosomal Hyperthermia produces lysosomal reactive oxygen species and causes Caspase-1 dependent cell death	Barcelona, Spain Ilmenau, Germany Toulouse, France	Talk 55
20:00 Saturd 08:30 09:00 09:45 10:00 10:15 10:45	Registration desk opens - Session 12 Roig, Anna Weidner, Andreas Gigoux, Véronique Coffee break Session 13	at the Niels Jerne Auditorium, Mærsk Tårnet (Maersk Tower), Blegdamsvej 3B Biological Applications I Magnetic Nanocapsules for Brain Repair after a Stroke Protein coated magnetic nanoparticles for medical applications Targeted Magnetic Intra-Lysosomal Hyperthermia produces lysosomal reactive oxygen species and causes Caspase-1 dependent cell death Biological Applications II Superparamagnetic Particle Scaffold for Regenerating Damaged Neural Tissue Magnetogenetic Activation of Small GTPases with MaglcS Nanoparticles Inside Living Cells	Barcelona, Spain Ilmenau, Germany Toulouse, France Chair: Thanh Nguyen	Talk 56
20:00 Saturd 08:30 09:00 09:45 10:00 10:15 10:45 11:00	Registration desk opens - Session 12 Roig, Anna Weidner, Andreas Gigoux, Véronique Coffee break Session 13 Dapprich, Johannes	at the Niels Jerne Auditorium, Mærsk Tårnet (Maersk Tower), Blegdamsvej 3B Biological Applications I Magnetic Nanocapsules for Brain Repair after a Stroke Protein coated magnetic nanoparticles for medical applications Targeted Magnetic Intra-Lysosomal Hyperthermia produces lysosomal reactive oxygen species and causes Caspase-1 dependent cell death Biological Applications II Superparamagnetic Particle Scaffold for Regenerating Damaged Neural Tissue	Barcelona, Spain Ilmenau, Germany Toulouse, France Chair: Thanh Nguyen Lawrenceville, NJ, USA	Talk 55 Talk 56 Talk 57
20:00 Saturd 08:30 09:00 09:45 10:00 10:15 10:45 11:00 11:15	lay, May 26, 2018 Registration desk opens - Session 12 Roig, Anna Weidner, Andreas Gigoux, Véronique Coffee break Session 13 Dapprich, Johannes Lisse, Domenik	at the Niels Jerne Auditorium, Mærsk Tårnet (Maersk Tower), Blegdamsvej 3B Biological Applications I Magnetic Nanocapsules for Brain Repair after a Stroke Protein coated magnetic nanoparticles for medical applications Targeted Magnetic Intra-Lysosomal Hyperthermia produces lysosomal reactive oxygen species and causes Caspase-1 dependent cell death Biological Applications II Superparamagnetic Particle Scaffold for Regenerating Damaged Neural Tissue Magnetogenetic Activation of Small GTPases with MaglcS Nanoparticles Inside Living Cells Differentiation status of stem cells impacts the biotransformations of internalized magnetic nanoparticles: in situ investigations using the magnetic	Barcelona, Spain Ilmenau, Germany Toulouse, France Chair: Thanh Nguyen Lawrenceville, NJ, USA Osnabrück, Germany	Talk 55 Talk 56 Talk 57 Talk 58
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20:00 Saturd 08:30 09:00 09:45 10:00 10:15 11:45 11:30 11:45 12:00	Registration desk opens - Session 12 Roig, Anna Weidner, Andreas Gigoux, Véronique Coffee break Session 13 Dapprich, Johannes Lisse, Domenik Van de Walle, Aurore Gonçalves, Ana Hannon, Gary	at the Niels Jerne Auditorium, Mærsk Tårnet (Maersk Tower), Blegdamsvej 3B Biological Applications I Magnetic Nanocapsules for Brain Repair after a Stroke Protein coated magnetic nanoparticles for medical applications Targeted Magnetic Intra-Lysosomal Hyperthermia produces lysosomal reactive oxygen species and causes Caspase-1 dependent cell death Biological Applications II Superparamagnetic Particle Scaffold for Regenerating Damaged Neural Tissue Magnetogenetic Activation of Small GTPases with MaglcS Nanoparticles Inside Living Cells Differentiation status of stem cells impacts the biotransformations of internalized magnetic nanoparticles: in situ investigations using the magnetic imprint Magnetic actuated SPCL scaffolds dopped with iron oxide magnetic nanoparticles as mechano-instructive platforms for tendon tissue engineering	Barcelona, Spain Ilmenau, Germany Toulouse, France Chair: Thanh Nguyen Lawrenceville, NJ, USA Osnabrück, Germany Paris, France Barco, Portugal	Talk 55 Talk 56 Talk 57 Talk 58 Talk 59 Talk 60
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