## 9th International Conference on the Scientific and Clinical Applications of Magnetic Carriers - Minneapolis, U.S.A.



Tuesday, May 22, 2012	Program as of 16/5/2012
12:00 Registration desk opens in the Van Vleck auditorium until the end of the BioMax satellite symposium	
13:30 BioMax satellite symposium "Novel diagnostic bio-assays based on magnetic particles" - Part 1 and 2 - free to all participants!	

15:10 Coffee break

15:30 BioMax satellite symposium "Novel diagnostic bio-assays based on magnetic particles" - Part 3 and 4 - free to all participants!

17:30 End of BioMax satellite symposium

18:30 Registration desk opens in the Dolly Fiterman Riverview Gallery until the end of the reception / welcome cocktail

18:30 Informal reception and welcome cocktail (Apero) in the Dolly Fiterman Riverview Gallery - generously sponsored by TurboBeads and Chemicell

22:00 End of reception

Wednes	sday, May 23, 2012			
7:20	Pagistration deak anana / Pagts	ers with odd numbers can be put up today during the lunch break (pins will be provided)		
	Opening Session	ers with odd humbers can be put up today during the functioneak (pins will be provided)		
	Hafeli/Schuett/Zborowski/Ping	Opening of the conference / Welcome		
	Hafeli, Urs	Short review of the last 2 years of magnetic carriers research	Vancouver, Canada	Talk 0
3.10	Tiaren, 013	Onor review of the last 2 years of magnetic carriers research	varicouver, Oariada	Talk 0
9:30	Sooryakumar, Ratnasingham	Mobile Magnetic Tweezers: From Research Tool to Engineering Applications and Biomedical Diagnostics	Columbus, USA	Invited talk 1
10:15	Coffee break sponsored by Street	em Chemicals		
	Session 1: Nanotechnology			
10:45	Ivkov, Robert	Assessing murine hepatic and splenic injury from inadvertent heating of systemically delivered non-targeted magnetic nanoparticles	Baltimore, USA	Talk 1
11:00	Jing, Ying	Design and Demonstration of Biocompatible Fe-Si Nanoparticles for Cancer Therapy	Minneapolis, USA	Talk 2
	Lu, Yi-Ching	Tea Catechins Enhance Nanoparticle Uptake by Glioma Cells	Tao-Yuan, Taiwan	Talk 3
11:30	Mitroova, Zuzana	Magnetoferritin in aqueous suspensions: effect of loading factor	Kosice, Slovakia	Talk 4
11:45	Winter, Jessica	Magnetic Nanoconveyer Belts for Cell and Molecular Separation	Columbus, USA	Talk 5
12:00	Sandre, Olivier	Droplet microfluidics to prepare magnetic polymer vesicles and to confine the heat in hyperthermia	Bordeaux, France	Talk 6
12:15	Lunch at McNamara Center / Po	ster session / Exhibitors		
	Session 2: Biosensors			
13:45	Dias, Tomás	Assessment of cell-free DNA integrity using a Magnetoresistive Chip-based platform for cancer diagnostic purposes	Lisbon, Portugal	Talk 7
14:00	Hein, Matt	Magnetic Nanocilia Sensors and Actuators	Minneapolis, USA	Talk 8
14:15	Lee, Hakho	Magnetic nanoparticle and NMR-based sensor for medical diagnosis	Boston, USA	Talk 9
14:30	Østerberg, Frederik	On-chip measurements of Brownian relaxation vs. concentration of 40 nm magnetic beads	Lyngby, Denmark	Talk 10
14:45	Love, David	Hetero-coated magnetic microcarriers for point of care diagnostics	Cambridge, UK	Talk 11
15:00	van Ijzendoorn, Leo	Frequency-selective rotation of magnetic nanoparticles for rapid and sensitive solution based detection of biomolecules	Eindhoven, Netherlands	Talk 12
15:15	Wang, Shan	A New Tool for Cancer Biomarker Detection: Multiple Samples and Multiple Parameters on a Single Magnetic Biochip	Stanford, USA	Talk 13
15:30	Coffee break			
	Session 3: Analytical Technique	es		
16:00	St. Pierre, Tim	Development of FerriScan: A Personal Story from the Lab Bench to Marketing a Product	Perth, Australia	Invited Talk 2
16:45	Odenbach, Stefan	Rheology of biocompatible ferrofluids	Dresden, Germany	Talk 14
17:00	Thünemann, Andreas	Fast and Reliable in situ Analysis of Dispersions of Magnetic Nanoparticles	Berlin, Germany	Talk 15
17:15	Usselman, Robert	Modeling Nanoparticle Properties By Electron Magnetic Resonance	Boulder, USA	Talk 16
17:30	Anker, Jeffrey	Magnetic Luminescent Core-Shell Particles for Drug Delivery and Imaging	Clemson, USA	Talk 17
17:45	Poster session (odd numbers) v	with beer and pretzels - PLEASE RATE POSTERS - sponsored by Diagnostic Biosensors		
19:45	Banquet and social evening in t	he McNamara Center, included in registration fee - sponsored by micromod - please remove posters by end of banque	uet	
22:00				

Thursd	ay, May 24, 2012			
8:00	Registration desk opens / Poster	s with even numbers can be put up today during the lunch break (pins will be provided)		<u>'</u>
8:30	Hawkins, Peter	Tutorial I - Magnetic Particles in Immunoassays	Bristol, UK	Tutorial 1
	Session 4: Magnetic Nanoparticle	e Synthesis		
9:00	Andrew, Jennifer	Bi-phasic Magnetic Materials: Towards Multifunctional Contrast Agents	Gainesville, USA	Talk 18
9:15	Becker, Sören	Using nanotechnology for the formation of multimodal marker for in vivo ß-cell labeling	Hamburg, Germany	Talk 19
9:30	Jain, Nirmesh	Penetration of Solid Tumors by Sterically Stabilized Magnetic Nanoparticles	Sydney, Australia	Talk 20
9:45	Huber, Dale	Synthesis of Iron Oxide Nanoparticles by the in situ Generation of Iron Oleate	Albuquerque, USA	Talk 21
10:00	Lak, Aidin	Large single-core iron oxide nanoparticles: a tracer for magnetorelaxometry immunoassays	Braunschweig, Germany	Talk 22
10:15	Coffee break			
10:45	Marquina, Clara	MgO-coated magnetite nanoparticles for detection and treatment of Fusarium spp. fungi	Zaragoza, Spain	Talk 23
11:00	Niehaus, Jan	Adjusting the MRI contrast by formation of defined SPIO clusters	Hamburg, Germany	Talk 24
11:15	Peng, Mingli	A novel approach of transferring oleic acid capped iron oxide nanoparticles to water phase	Xi'an, China	Talk 25
11:30	Roig, Anna	Magnetically Labeled Endothelial Progenitor Cells for Cellular Therapy in Brain Ischemia Treatment	Bellaterra, Spain	Talk 26
11:45	Thanh, Nguyen T.	One-pot synthesis of hybrid magnetic and fluorescent core-shell structure of FePt@CdSe Nanoparticles	London, UK	Talk 27
12:00	Guo, Haibo	Morphological Mapping of Iron Oxide Nanoparticles Using Thermodynamic Modeling	Melbourne, Australia	Invited talk 3
12:45	Lunch in the TCF Bank football s	stadium, DQ Clubroom / Exhibitors		
	Session 5: Magnetic Hyperthermia			
14:30	Rinaldi, Carlos / Ivkov, Robert	Debate: Do We Really Know How Magnetic Hyperthermia Works? Moderated by Kannan Krishnan	Baltimore/Mayaguez, USA	Invited talk 4
15:15	Borca-Tasciuc, Diana-Andra	Potential sources of errors in measuring and evaluating the specific absorption rate of magnetic nanoparticles in alternating magnetic field	Troy, USA	Talk 28
15:30	Creixell, Mar	EGFR-Targeted Magnetic Nanoparticles Kill Cancer Cells Under the Application of a Magnetic Field Without a Perceptible Rise in Temperature	Mayagüez, USA	Talk 29
15:45	Dennis, Cindi	Effect of Internal Magnetic Structure of Iron Oxide Magnetic Nanoparticles on the Field Dependence of the SLP for Hyperthermia	Gaithersburg, USA	Talk 30
16:00	Dutz, Silvio	Magnetic hyperthermia - Immobilisation state of magnetic multicore nanoparticles injected into living tumors	Vancouver, Canada	Talk 31
16:15	Goya, Gerardo	Is the magnetic hyperthermia mechanism a universal one? The case of dendritic cells.	Zaragoza, Spain	Talk 32
16:30	Hadjipanayis, Constantinos	Thermotherapy of Experimental Glioblastoma with Laponite-Embedded Magnetic Iron-Oxide Nanoparticles	Atlanta, USA	Talk 33
16:45	Bernau, Vianney	Injectable Nanocomposite for local Hyperthermia	Lausanne, Switzerland	Talk 34
17:00	Southern, Paul	Inter-Particle Interactions in the Static and Dynamic Magnetic Properties of Ferucarbotran Colloids	London, UK	Talk 35
17:15	Group photograph			
17:30	Poster session (even numbers) with beer and pretzels - PLEASE RATE POSTERS - sponsored by StemCell Technologies / Exhibitors			
20:00	Free evening - use it to meet old friends, discuss new collaborations, and enjoy Minneapolis on your own! - please remove posters by end of the evening!			

Registration desk opens / No poster sessions today!  8-30 Registration desk opens / No poster sessions today!  8-30 Hawkins, Peter Tutorial I - Magnetic Particles in Immunoassays  8-30 Raise, Beter Tutorial I - Magnetic Particles in Immunoassays  8-30 Raise, Beter Sussion 6: Magnetic Imaging / MPI  9-30 Bales, Bran GEH12133: A New Iron Oxide Nanoparticle for Magnetic Resonance Imaging in Inflammation and Oncology  8-30 Nin, Jongsik High Speed Magnetic matric operates by tocome and provide nanoparticles for biomaging?  9-30 Nin, Jongsik High Speed Magnetic Magnetic Distributions after Magnetic Drug Targeting in a Rabbit Carcinoma Model In-Vivo Quantification of Magnetic Nanoparticle Distributions after Magnetic Drug Targeting in a Rabbit Carcinoma Model In-Vivo Quantification of Magnetic Nanoparticle Distributions after Magnetic Drug Targeting in a Rabbit Carcinoma Model In-Vivo Quantification of Magnetic Nanoparticle Distributions after Magnetic Drug Targeting in a Rabbit Carcinoma Model In-Vivo Quantification of Magnetic Nanoparticle Distributions after Magnetic Drug Targeting in a Rabbit Carcinoma Model In-Vivo Quantification of Magnetic Nanoparticle Distributions after Magnetic Drug Targeting in a Rabbit Carcinoma Model In-Vivo Quantification of Magnetic Nanoparticle Drug Targeting in a Rabbit Carcinoma Model In-Vivo Quantification of Magnetic Nanoparticles of Nanoparticles of Magnetic Nanoparticles of Nanoparticles of Magnetic Nanoparticles of Nanoparticles	Friday,	May 25, 2012			
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Session 6: Magnetic Imaging / MAP  900 Bates, Brian   GEH121333: A New Iron Oxde Nanoparticle for Magnetic Resonance Imaging in Inflammation and Oncology   Niskayuna, USA   Taik 36   915 Beigin-Colin, Sylvie   Wihy a dendritic approach to biocompatible iron exide nanoparticles for bioimaging ? Straebourg, Prance   Taik 37   930 Kim, Jongsik   High Speed Magnetiomative Optical Contenere Tromography   Straebourg, Prance   Taik 38   16-194 Liebit, Maik   using Magnetiorializon of Magnetic Nanoparticle Distributions after Magnetic Drug Targeting in a Rabbit Carcinona Model   94.5 Liebit, Maik   using Magnetiorializon of Magnetic Nanoparticle Distributions after Magnetic Drug Targeting in a Rabbit Carcinona Model   94.5 Liebit, Maik   using Magnetiorializonatory   Taik 40   94.5 Liebit, Maik   using Magnetic Promographic Nanoparticle Distributions after Magnetic Drug Targeting in a Rabbit Carcinona Model   94.5 Liebit, Maik   using Magnetic Drug Magnetic Elization Nanoparticle Distributions after Magnetic Drug Targeting in a Rabbit Carcinona Model   94.5 Liebit, Maik   using Magnetic Drug Magnetic Elization Magnetic Chain Formation on Transverse Reliazation Rates in Magnetic Brown, USA   Taik 40   94.6 Rine, Judy   Therapeutic Agents   Magnetic Elization Magnetic Magnetic Nanoparticles   Nanopa	8:00	Registration desk opens / No	poster sessions today!		
Seales, Brian   GEH121333: A New Iron Oxide Nanoparticle for Magnetic Resonance Imaging in Inflammation and Oncology   Niskayuna, USA   Talk 36	8:30	Hawkins, Peter	Tutorial II - Magnetic Particles in Immunoassays	Bristol, UK	Tutorial 2
Segin-Colin, Sylvie   Why a dendritic approach to biocompatible iron oxide nanoparticles for bioimaging?   Strasbourg, France   Talk 37		Session 6: Magnetic Imaging	/ MPI		
Season   Face	9:00	Bales, Brian	GEH121333: A New Iron Oxide Nanoparticle for Magnetic Resonance Imaging in Inflammation and Oncology	Niskayuna, USA	Talk 36
10-20 Lubi, Malk using Magnetorelaxonetry using Magnetic Nanoparticle Distributions after Magnetic Drug Targeting in a Rabbit Carcinoma Model using Magnetorelaxonetry using Magnetorelaxonetry.  10-20 Coffee break  10-30 Saville, Steven The Influence of Linear Magnetic Chain Formation on Transverse Relaxation Rates in Magnetic Resonance Imaging Clemson, USA Talk 40 Lubic Rahn, Helene Quantitative Tomographic Examination of Magnetic Nanoparticles Distributions of Magnetic Nanoparticles Nanoparticles of Magnetic Nanoparticles Nanop	9:15	Begin-Colin, Sylvie	Why a dendritic approach to biocompatible iron oxide nanoparticles for bioimaging?	Strasbourg, France	Talk 37
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10.30 Saville, Steven The Influence of Linear Magnetic Chain Formation on Transverse Relaxation Rates in Magnetic Resonance Imaging Clemson, USA Talk 40 10.48 Rahn, Helene Quantitative Tomographic Examination of Magnetic Nanoparticles Drasdon, Germany Talk 41 11.00 Riffle, Judy Therapeutic Agents Therapeutic Agents Therapeutic Agents Optimizing Superparamagnetic Nanoparticles towards Contrast Enhanced MRI for sensitive in vivo cell detection Leuven, Belgium Talk 43 11.50 Krishnan, Kannan Developing Tracers for Enhanced Resolution and Sensitivity in MPI Sestife. Judy Sestife. Judy Sestife. Presented by Cordula Gruetter during the lunch Sestife. The Magnetic Separation 13.30 Herrmann, Inge Cleaning Blood: Applications of Ultre-strong Metal Nanomagnets in Nanomedicine Magnetophoretic transport of non-magnetic latex colloidal particles across a magnetic fluid volume under a uniform magnetic field gradient Magnetophoretic transport of non-magnetic latex colloidal particles across a magnetic fluid volume under a uniform magnetic field gradient Magnetophoretic Transport of non-magnetic Berichment and Next-Generation Sequencing Lawrenceville, USA Talk 45 14.00 Depprich, Johannes Identification of New Sequence Variants by Targeted Enrichment and Next-Generation Sequencing Lawrenceville, USA Talk 46 14.51 Dutz, Silvio A Microsian Almost Silvio Magnetic Field and Magnetic Field Gradient on Effectiveness of the Magnetic Silter for Cell Purification Stanford, USA Talk 48 14.45 Dutz, Silvio Nevel method for magnetic field and size based purification of magnetic in magnetic inter for cell Separation Nevel method for magnetic field and Size Desendent Fractionation of Magnetic Particle-Based Microbiolic Circulating Tumor Cell Separation for Oncological Therapeutic Monitoring Boston, USA Talk 49 15.00 Plouffe, Brian Magnetic Particle-Based Microbiolic Circulating Tumor Cell Separation for Proceedings of the Magnetic Silter for Cell Purification Stanford, USA Talk 53 15.15 Samia, Anna Cristina Ph-Controlled Adsorption of Cel ions	9:45	Liebl, Maik		Berlin, Germany	Talk 39
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	17:30	Dumas-Bouchiat, Frederic		Grenoble, France	Talk 58
18:00 Traditional boat cruise on the Mississippi - Buses leave in front of the University Hotel; dress appropriately, it gets windy on the boat!	17:45	Nacev, Alek	Improving the Treatment of Hypoxic Breast Cancer Liver Metastases by using Dynamic Magnetic Shift	College Park, USA	Talk 59
	18:00	Traditional boat cruise on the	e Mississippi - Buses leave in front of the University Hotel; dress appropriately, it gets windy on the boat!		

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10:00 Klost 10:15 <b>Coffe</b> 11:00 Prina 11:15 Tietz	mpe, Maria	Biodegradation of Magnetic Nanoparticles in Mouse Liver from Combined Analysis of Mössbauer and Magnetization Data	Moscow, Russia	Talk 62
10:15 <b>Coffe</b> 11:00 Prina 11:15 Tietze	1 / 2 2	Magnetic Nanoparticles for Implant-Assisted Magnetic Drug Targeting in Cardiovascular Medicine	Lund, Sweden	Talk 63
11:00 Prina 11:15 Tietz	stergaard, Jim	Anti-Tumor Activity of Drug-Loaded Magnetically Responsive Nanoparticles	Houston, USA	Talk 64
11:15 Tietz	ffee break			
	na-Mello, Adriele	Multiparametric toxicity evaluation of SPIONs as identification for multifunctional nanoparticles for theranostic applications	Dublin, UK	Talk 65
11:30 Greg		Mitoxantrone delivery via Magnetic Drug Targeting for tumor therapy-Characterisations and biological outcome	Erlangen, Germany	Talk 66
	egory-Evans, Kevin	Focused Magnetic Stem Cell Targeting to the Retina Using Magnetic Nanoparticles	Vancouver, Canada	Invited talk 6
	nch boxes at Van Vleck Aud			
	ssion 10 : Biological Applica			
	egler, Johannes	Magnetic delivery of mesenchymal stem cells after arterial injury	London, UK	Talk 67
13:30 Tefft,	fft, Brandon	Magnetizable Duplex Steel Stents Enable Endothelial Cell Capture	Rochester, USA	Talk 68
13:45 Bonn	nnaud, Cecile	Magnetic Janus Liposomes: Design of magnetic thermosensitive biomembranes for MRI and drug delivery	Marly, Switzerland	Talk 69
14:00 Marte	rten, Gernot	Modular Construction of Tailor-Made Bioactive Hybrid Nanoparticles	Vancouver, Canada	Talk 70
14:15 Gazo	zova, Zuzana	BSA-modified magnetic fluids as therapeutic agents targeting insulin-associating amyloidosis	Kosice, Slovakia	Talk 71
14:30 Guar	an, Yueping	Peroxidase-like activity of magnetic nanoparticles and their applications in immunoassay	Beijing, China	Talk 72
14:45 Gutie	tierrez, Lucia	Renal iron load in sickle cell disease determined by magnetic resonance imaging measurements	Perth, Australia	Talk 73
15:00 Hight	ht Walker, Angela	Bismuth-doped Cobalt Ferrite Nanoparticles for MRI and CT Contrast Enhancement	Gaithersburg, USA	Talk 74
15:15 Hora	rak, Daniel	Anti-EpCAM-Immobilized Albumin-Coated Monodisperse Magnetic Poly(Glycidyl Methacrylate) Microspheres for Detection of Circulating Tumor Cells	Prague, Czech Rep.	Talk 75
15:30 Lee,	a Hakho	Novel core-shell magnetic nanoparticles as highly efficient contrasting agents for magnetic resonance detection	Boston, USA	Talk 76
15:45 <b>Clos</b>	z, i ianiiU	A CALL NEVI MEETING TO THE PART OF COMMENT OF THE PART		
16:00 <b>Meet</b>		ncement of the NEXT MEETING: Urs Hafeli / Stefan Odenbach		