

8th International Conference on the Scientific and Clinical Applications of Magnetic Carriers - Rostock, Germany

	First Author					Corresponding Author	
Tuesday, May 25, 2010							
17:00	Registration desk opens until the end of the reception / welcome cocktail						
17:00	Posters can be put up (pins will be provided)						
18:30	Informal reception and welcome cocktail (Apero) in the Kurhaus Warnemünde - <i>generously sponsored by Chemicell</i>						
Wednesday, May 26, 2010							
7:30	Registration desk opens / Posters can be put up (pins will be provided)						
Opening Session							
9:00	Schuett	Wolfgang	Opening of the conference / Welcome	Germany			
9:05	Hafeli	Urs	Short review of the last 2 years of magnetic carriers research	Canada	Talk 0		
9:25	Giaever	Ivar	From Quantum Physics to Biotechnology: Reflections and Advice from a Nobel Prize Carrier	Norway	Invited talk 1		
10:05	Coffee break / posters / exhibitors						
Session 1: Magnetic Drug Delivery I							
10:45	Alexiou	Christoph	Cancer Therapy with Drug Loaded Magnetic Nanoparticles-Magnetic Drug Targeting	Germany	Talk 1	Alexiou	Christoph
11:00	Azevedo	Ricardo	Toxicity, biodistribution and magnetic attraction of a magnetic fluid containing maghemite nanoparticle surface-coated with a double-layer lauric - in vitro and in vivo tests	Brazil	Talk 2	Azevedo	Ricardo
11:15	Cummins	Zach	Manipulating Ferrofluid at a Distance: Magnets Pushing and Dynamic Control	U.S.A.	Talk 3	Shapiro	Benjamin
11:30	Darton	Nicholas	Manipulation and tracking of superparamagnetic nanoparticles using MRI	U.K.	Talk 4	Darton	Nicholas
11:45	Georgelin	Thomas	Coupling bleomycin to multifunctionalized magnetic nanoparticles, toward an efficient cancer treatment	France	Talk 5	Siaugue	Jean-Michel
12:00	Gitter	Kurt	Quantitative targeting-maps as result of experimental investigations on a branched tube model in magnetic drug targeting	Germany	Talk 6	Gitter	Kurt
12:15	Lunch						
Session 2: Gene Delivery							
13:40	Steinhoff	Gustav	Enhanced Thoracic Gene Delivery by Magnetic Nanobead-Mediated Vector	Germany	Invited talk 2		
14:20	Ma	Yongjie	Enhancement of the efficiency of non-viral gene delivery by Magnetofectins Formed via Electrostatic Self-assembly to COS-Cell Lines in vitro	China	Talk 7	Gu	Hongchen
14:35	Mykhaylyk	Olga	Optimizing virus-magnetic nanoparticle complexes for gene transfer in cell lines and stem cells	Germany	Talk 8	Mykhaylyk	Olga
14:50	Trueck	Christina	Targeting of lentiviral vectors and positioning of transduced cells by magnetic nanoparticles and magnetic field	Germany	Talk 9	Pfeifer	Alexander
Session 3: Magnetic Drug Delivery II							
15:10	Gutierrez	Lucia	Detection of magnetic nanoparticles in a tumour after cytokine delivery in the presence of a magnetic field	Spain	Talk 10	Gutierrez	Luciana
15:25	Isa	Lucio	Nitrocatechol-dispersant stabilized superparamagnetic iron oxide nanoparticle assembly into magnetically actuated membranes	Switzerland	Talk 11	Reimhult	Erik
15:40	Coffee break / posters / exhibitors - coffee break sponsored by CDRD						
16:25	Klostergaard	Jim	Magnetically-Responsive Nanoparticles for Vectored Delivery of Cancer Therapeutics	U.S.A.	Talk 12	Klostergaard	Jim
16:40	Levasseur	Steve	Systemically Delivered Magnetic Nanoparticles for Targeted Ocular Molecular Imaging and Drug Delivery	Canada	Talk 13	Levasseur	Steve
16:55	Liu	Shao-Kai	Interaction of Low-Frequency Ultrasound and Magnetic Force on Magnetite Nanoparticle Carrying Tissue Plasminogen Activator	Taiwan	Talk 14	Ma	Yunn-Hwa
17:10	Louquet	Stéphanie	Engineering the surface of magnetic nanoparticles by adsorption of double hydrophilic block copolymers	France	Talk 15	Louquet	Stéphanie
17:25	MacDonald	Cristin	Effects of magnetite loading and time-varied magnetic field on MNP transport in soft medium and cellular uptake	U.S.A.	Talk 16	MacDonald	Cristin
17:40	Newman	Brant	Magnetic Endothelialization of Vascular Stents Facilitates Healing and Improves Patency	U.S.A.	Talk 17	Dragomir-Daescu	Daniel
17:55	Pirmoradi	Fatemeh	A Magnetically Controlled Drug Delivery Device	Canada	Talk 18	Chiao	Mu
18:10	Russo	Alessandro	Magnetic Scaffold for Advanced Osteochondral Tissue Engineering	Italy	Talk 19	Russo	Alessandro
18:25	Wu	Tony	Intra-Arterial Application of Magnetic Nanoparticles for Targeted Thrombolytic Therapy: A Rat Embolic Stroke Model	Taiwan	Talk 20	Wu	Tony
18:40	Poster session (odd numbers) with beer and pretzels - PLEASE RATE POSTERS - sponsored by <i>Magnisense</i> and <i>Stemcell Technologies</i>						
20:10	Banquet and social evening, included in registration fee						

Thursday, May 27, 2010							
7:30	Registration desk opens						
8:30	Krishnan	Kannan	Tutorial I on Magnetic Things We All Should Know	U.S.A.	Tutorial 1		
Session 4: Microsphere Synthesis							
9:00	Ettenauer	Marion	Preparation of Magnetic Cellulose Microparticles as Markers in Extracorporeal Blood Purification	Austria	Talk 21	Weber	Viktoria
9:15	Furlan	Marco	Magnetic Gelation: A new Method to Produce Anisotropic Porous Polymeric Materials	Switzerland	Talk 22	Lattuada	Marco
9:30	Kuznetsov	Anatoly	Magnetically guided microscopic electric batteries: manufacturing and biological applications.	Russia	Talk 23	Kuznetsov	Oleg
9:45	Xu	Hong	Development of immunomagnetic beads for rapid detection of Escherichia coli O157:H7 by immunomagnetic enrichment and real-time PCR	China	Talk 24	Xu	Hong
10:00	Group photograph						
10:15	Coffee break / poster session / exhibitors - coffee break sponsored by Integrated Engineering Solutions						
Session 5: Nanoparticle Synthesis and Analysis							
10:45	Amstad	Esther	Adding Different Functionalities to Ultra-stable Superparamagnetic Iron Oxide Nanoparticles through Controlled Surface Modification	Switzerland	Talk 25	Amstad	Esther
11:00	Bakandritsos	Aristides	Development of Functional Magnetic Targeted Carriers for Cationic Drugs	Greece	Talk 26	Bakandritsos	Aristides
11:15	Dutz	Silvio	Physical Properties of Water Based Large Single Domain Particle Dispersions of Magnetite	Germany	Talk 27	Dutz	Silvio
11:30	Guerler	Celin	Magnetically Induced Hot Spots Promote a Locoregional Chemical Reaction	Germany	Talk 28	Guerler	Celin
11:45	Jain	Nirmesh	Anchored Steric Stabilisation of Superparamagnetic Nanoparticles for Biomedical Applications	Australia	Talk 29	Jain	Nirmesh
12:00	Wang	Shan X.	Magneto-Nano Chips for Biomedical Diagnostics	U.S.A.	Invited talk 3		
12:40	Lunch						
Session 6: Nanoparticle Synthesis and Analysis							
14:00	Lellouche	Jean-Paul	Hydrophilic Maghemite (γ -Fe ₂ O ₃) Nanoparticles - Aggregation Control Using an Ultrasound-Assisted Doping Process of Particle Surface	Israel	Talk 30	Lellouche	Jean-Paul
14:15	Mahmoudi	Morteza	Synthesis of Rod-Shaped Superparamagnetic Iron Oxide Nanoparticles with Polyvinyl Alcohol	Iran	Talk 31	Mahmoudi	Morteza
14:30	Mistlberger	Guenter	Magnetically controlled, multifunctional nano devices	Austria	Talk 32	Mistlberger	Guenter
14:45	Nikitin	Maxim	Self-assembly of multifunctional nanoparticles via barnase and barstar	Russia	Talk 33	Nikitin	Maxim
15:00	Pellegrino	Teresa	Magnetic based nanobeads as multifunctional platforms for biomedical applications	Italy	Talk 34	Pellegrino	Teresa
15:15	Truonc Phuoc	Lai	Magnetic nanosystems for the sentinel nodes detection	France	Talk 35	Pourroy	Geneviève
15:30	Turcu	Rodica	Synthesis and characterization of biocompatible magnetically controllable nanostructures using different polymers or block copolymers	Romania	Talk 36	Turcu	Rodica
15:45	Yang	Liangrong	Fabrication of Temperature- and pH- Responsive Magnetic Nanoparticles and Their Reversible Agglomeration in Aqueous Milieu	China	Talk 37	Liu	Huizhou
16:00	Yoo	Myung-Ik	Synthesis of Individually Water-Soluble, Biocompatible, and Angiogenesis-Targeting Superparamagnetic Iron Oxide Nanoparticles	Korea	Talk 38	Woo	Kyoungja
16:15	Zierold	Robert	Synthesis of Biocompatible Magnetic Test-Tube-Shaped Nanoparticles by Atomic Layer Deposition	Germany	Talk 39	Zierold	Robert
16:30	Coffee break / poster session / exhibitors						
Session 7: Analytical Methods							
17:00	Dennis	Cindi	Interactions in Magnetic Nanoparticle Systems: How to Identify Them and Their Consequences	U.S.A.	Talk 40	Dennis	Cindi
17:15	Lim	JitKang	Magnetophoretic motion control of individual Brownian nanoparticles	U.S.A.	Talk 41	Majetich	Sara
17:30	Liu	Wenzhong	Magnetic Nanoparticle Temperature Estimation Using AC Susceptibility	China	Talk 42	Liu	Wenzhong
17:45	Salaklang	Jatuporn	Fixed bed magnetic reactor for surface derivatization of Superparamagnetic Iron Oxide Nanoparticles	Switzerland	Talk 43	Salaklang	Jatuporn
18:00	Schaller	Vincent	Determination of nanocrystal size distribution in magnetic multi-core particles including interactions and magnetic anisotropy	Sweden	Talk 44	Schaller	Vincent
18:15	Tarn	Mark	Continuous magnetic microparticle-based sandwich immunoassays in a multilaminar flow microreactor	U.K.	Talk 45	Tarn	Mark
18:30	Teste	Bruno	Magnetic core shell nanoparticles based homogeneous immunoassay	France	Talk 46	Siaugue	Jean-Michel
18:45	Poster session (even numbers) with beer and pretzels - PLEASE RATE POSTERS - sponsored by Diagnostic Biosensors and Life Technologies						
20:15	Free evening - use it to meet old friends, discuss new collaborations, and enjoy Warnemünde on your own!						

Friday, May 28, 2010							
7:30	Registration desk opens						
8:30	Krishnan	Kannan	Tutorial II on Magnetic Things We All Should Know	U.S.A.	Tutorial 2		
Session 8: Magnetic Hyperthermia I							
9:00	Berndl	Bettina	Antibody Targeted Magnetic Nanoparticle Hyperthermia for Cancer Therapy	U.K.	Talk 47	Berndl	Bettina
9:15	Gogoi	Manashjit	Thermosensitive magnetoliposomes containing biphasic mixture of metal oxide composite nanoparticles for combined cancer drug delivery and hyperthermia	India	Talk 48	Banerjee	Rinti
9:30	Ivkov	Robert	Development of magnetic nanoparticles and devices for thermal therapy of cancer: A radiosensitization study in mice bearing human prostate cancer xenografts	U.S.A.	Talk 49	Ivkov	Robert
9:45	Kashevsky	Bronislav	Substantiation and in-vivo approbation of the low-frequency ferromagnetic hyperthermia	Belarus	Talk 50	Kashevsky	Bronislav
10:00	Coffee break / poster session / exhibitors						
Session 9: Magnetic Hyperthermia II							
10:30	Martinez-Boubeta	Carlos	Self-assembled multifunctional fe/mgo nanospheres for mri and hyperthermia	Spain	Talk 51	Martinez Boubeta	Carlos
10:45	Pradhan	Pallab	Multifunctional magnetic liposomes for magnetic drug targeting and hyperthermia applications	India	Talk 52	Pradhan	Pallab
11:00	Rau	Beate	Thermotherapy of oesophageal cancer with superparamagnetic iron oxide nanoparticles	Germany	Talk 53	Rau	Beate
11:15	Southern	Paul	Real-time In Vitro Analysis of Magnetic Hyperthermia using Optical and Fluorescent Microscopy	U.K.	Talk 54	Southern	Paul
11:30	Plank	Christian	Magnetofection – magnetically enhanced nucleic acid delivery, from research tool towards clinical application	Germany	Invited talk 4		
12:10	Lunch						
13:25	POSTER PRIZE - Presented by Cordula Gruettner						
Session 10: Magnetic Imaging / MRI							
13:30	Jing	Ying	Dual Functional Au coated Fe70Co30 High-Magnetic-Moment Nanoparticles for MR imaging and Therapy	U.S.A.	Talk 55	Wang	Jian-Ping
13:45	Lee	Yi-Cheng	MnO Nanocrystals as in vivo Time-Dependent T1 MRI Contrast Agents	U.S.A.	Talk 56	Krishnan	Kannan
14:00	Misri	Ripen	Molecular Imaging Bioprobes (MRI/SPECT) for Mesothelin Expressing Cancers	Canada	Talk 57	Misri	Ripen
14:15	Nikitin	Petr	Non-invasive in vivo mapping and long-term monitoring of magnetic nanoparticles in different organs of an animal	Russia	Talk 58	Nikitin	Petr
14:30	Rahn	Helene	Calibration phantom for quantitative tomography analysis of biodistribution of magnetic drug carriers	Germany	Talk 59	Rahn	Helene
14:45	Rühmer	Dennis	Magnetic relaxation imaging using a fluxgate based scanner	Germany	Talk 60	Rühmer	Dennis
15:00	Soenen	Stefaan	Intracellular iron oxide nanoparticle coating stability determines nanoparticle usability and cell functionality	Belgium	Talk 61	Himmelreich	Uwe
15:15	Tokarev	Alexander	Magnetic Nanoneedles for Optofluidic Applications	U.S.A.	Talk 62	Kornev	Konstantin
15:30	Trekker	Jesse	Effect of the core size of monodisperse superparamagnetic nanoparticles on their relaxometric enhancing properties for MRI	Belgium	Talk 63	Trekker	Jesse
15:45	Zabow	Gary	Cylindrical Magnetic Nanoshells for Multispectral MRI	U.S.A.	Talk 64	Zabow	Gary
16:00	Coffee break / poster session / exhibitors						
Session 11: Magnetic Separation							
16:30	AlHetlani	Entesar	On-chip generation and manipulation of magnetic w/o and o/w droplets	U.K.	Talk 65	Pamme	Nicole
16:45	Andreu	Jordi	Equilibrium and nonequilibrium aggregation of superparamagnetic colloids	Spain	Talk 66	Andreu	Jordi
17:00	Balasubramanian	P.	Circulating tumor cell detection by magnetic depletion of normal blood cells	U.S.A.	Talk 67	Balasubramanian	P.
17:15	Earhart	Christopher	Improved Designs of a Microfabricated Magnetic Sifter for Biomolecule and Cell Purification	U.S.A.	Talk 68	Earhart	Christopher
17:30	Fischer	Thomas	Colloidal transport and separation on magnetic garnet films	Germany	Talk 69	Fischer	Thomas
17:45	Hoshino	Kazunori	Microfluidic Chip-Based Immunomagnetic Detection of Circulating Tumor Cell	U.S.A.	Talk 70	Hoshino	Kazunori
18:00	Schwarz	Sebastian	Nanoparticle Size and Surface Charge Determine Formation of Protein Corona, Cellular Uptake and Magnetic Resonance Imaging Properties	Germany	Talk 71	Schwarz	Sebastian
18:30	Traditional boat cruise / visit of downtown Rostock - sponsored by micromod						

Saturday, May 29, 2010							
7:30	Registration desk opens						
8:30	Krishnan, Kannan		Tutorial III on Magnetic Things We All Should Know		U.S.A.	Tutorial 3	
Session 12: Biological Applications I							
9:00	Antosova	Andrea	Magnetic fluids have ability to decrease amyloid aggregation associated with amyloid-related diseases		Slovakia	Talk 72	Kopcansky Peter
9:15	Ho	Vincent	Magnetic cell labelling and manipulation in 2D and 3D cell cultures		U.K.	Talk 73	Ho Vincent
9:30	Komissarova	Lubov	Development of Magnetic Operated Preparations for Boron Neutron Capture of Tumour Therapy		Russia	Talk 74	Komissarova Lubov
9:45	Laurencin	Mathieu	Human Erythrocytes Covered with Magnetic Core–Shell Nanoparticles as Multifunctional Drug Carriers		France	Talk 75	Ménager Christine
10:00	Palfreyman	Justin	Magnetic Barcoded Microcarriers for Biomolecular Labelling Applications		U.K.	Talk 76	Palfreyman Justin
10:15	Coffee break / exhibitors						
Session 13: Biological Applications II							
11:00	Riegler	Johannes	A simplified mathematical model for targeted magnetic delivery of cells using an MRI scanner		U.K.	Talk 77	Riegler Johannes
11:15	Shoshi	Astrit	GMR-based real-time cell endocytosis monitoring of magnetic particles		Austria	Talk 78	Shoshi Astrit
11:30	Sureshkumar	Manthiriyappa	Multifunctionalized magnetic bionanocomposites for biotechnology applications		Taiwan	Talk 79	Lee Cheng-Kang
11:45	Thanh	Nguyen TK	Multifunctional Biological Probe		U.K.	Talk 80	Thanh Nguyen TK
12:00	Torres-Lugo	Madeline	Examination of the Enhanced Potentiation of Combined Cisplatin Treatment with Magnetic Fluid Hyperthermia		U.S.A.	Talk 81	Torres-Lugo Madeline
12:15	Rozhkova, Elena		Biofunctionalized Magnetic-Vortex Microdiscs for Biomechanical Cell Actuation		U.S.A.	Invited talk 5	
12:55	Lunch						
Session 14 : Biosensors							
14:00	Dempsey	Nora	Micro-structured hard magnetic films for lab-on-chip applications		France	Talk 82	Dempsey Nora
14:15	Donolato	Marco	On chip detection and manipulation of biological entities carried by magnetic beads via domain wall conduits		Italy	Talk 83	Donolato Marco
14:30	Enpuku	Keiji	AC susceptibility measurement of magnetic markers for liquid phase detection of biological targets		Japan	Talk 84	Enpuku Keiji
14:45	Kinnunen	Paivo	Growth Measurements of Individual Bacteria with a Magnetic Bead Rotation Sensor		U.S.A.	Talk 85	Kopelman Raoul
15:00	Li	Yuanpeng	Biomarker quantification in unprocessed human sera by a competition-based nanomagnetic protein assay and high-magnetic-moment nanoparticles		U.S.A.	Talk 86	Wang Jian-Ping
15:15	Østerberg	Frederik	Chip-based measurements of Brownian relaxation of magnetic beads using a planar Hall effect magnetic field sensor		Denmark	Talk 87	Hansen Mikkel
15:30	Sivagnanam	Venkataraga	Study of spatio-temporal immunofluorescence on magnetic bead patterns in a microfluidic channel		Switzerland	Talk 88	Yang Hui
15:45	Closing Comments and Announcement of the NEXT MEETING: Wolfgang Schuett / Jian Ping Wang						
16:00	Meeting ends						
							Program 28/3/2010 Ha