uesday,	May 25, 2010			
17:00	Registration desk opens unt	il the end of the reception / welcome cocktail		
17:00	Posters can be put up (pins			
18:30	Informal reception and we	clcome cocktail (Apero) in the Kurhaus Warnemünde - generously sponsored by Chemicell		
/ednesd	ay, 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	Rostock, Germany	
9:15	Hafeli, Urs	Short review of the last 2 years of magnetic carriers research	Vancouver, Canada	Talk 0
9:35	Giaever, Ivar	From Quantum Physics to Biotechnology: Reflections and Advice from a Nobel Prize Carrier	Oslo, Norway	Invited talk 1
10:10	Coffee break / posters / ex			
	Session 1: Magnetic Drug	Delivery I - Chair: Christian Plank (Germany)		
10:45	Alexiou, Christoph	Cancer Therapy with Drug Loaded Magnetic Nanoparticles-Magnetic Drug Targeting	Erlangen, Germany	Talk 1
		Toxicity, biodistribution and magnetic attraction of a magnetic fluid containing maghemite nanporticle surface-coated with a double-layer lauric -		
11:00	Azevedo, Ricardo	in vitro and in vivo tests	Brasilia, Brazil	Talk 2
11:15	Nacev, Alek	Predicting the behavior of magnetic particles in-vivo: simulations vs experiments	College Park, U.S.A.	Talk 3
11:30	Darton, Nicholas	Manipulation and tracking of superparamagnetic nanoparticles using MRI	Cambridge, U.K.	Talk 4
11:45	Georgelin, Thomas	Coupling bleomycin to multifunctionalized magnetic nanoparticles, toward an efficient cancer treatment	Paris, France	Talk 5
12:00	Gitter, Kurt	Quantitative targeting-maps as result of experimental investigations on a branched tube model in magnetic drug targeting	Dresden, Germany	Talk 6
12:15	Lunch			
	Session 2: Gene Delivery - Chair: Gustav Steinhoff (Germany)			
13:40	Steinhoff, Gustav	Enhanced Thoracic Gene Delivery by Magnetic Nanobead-Mediated Vector	Rostock, 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-7 cell lines in vitro	Shanghai, China	Talk 7
14:35	Mykhaylyk, Olga	Optimizing virus-magnetic nanoparticle complexes for gene transfer in cell lines and stem cells	Munich, Germany	Talk 8
14:50	Trueck, Christina	Targeting of lentiviral vectors and positioning of transduced cells by magnetic nanoparticles and magnetic field	Bonn, Germany	Talk 9
	Session 3: Magnetic Drug	Delivery II - Chair: Dhirendra Bahadur (India)		
15:10	Gutierrez, Lucia	Detection of magnetic nanoparticles in a tumour after cytokine delivery in the presence of a magnetic field	Madrid, Spain	Talk 10
15:25	Isa, Lucio	Nitrocatechol-dispersant stabilized superparamagnetic iron oxide nanoparticle assembly into magnetically actuated membranes	Zurich, Switzerland	Talk 11
15:40	Coffee break / posters / ex	hibitors		
16:25	Klostergaard, Jim	Magnetically-Responsive Nanoparticles for Vectored Delivery of Cancer Therapeutics	Houston, U.S.A.	Talk 12
16:40	Levasseur, Steve	Systemically Delivered Magnetic Nanoparticles for Targeted Ocular Molecular Imaging and Drug Delivery	Vancouver, Canada	Talk 13
16:55	Liu, Shao-Kai	Interaction of Low-Frequency Ultrasound and Magnetic Force on Magnetite Nanoparticle Carrying Tissue Plasminogen Activator	Tao Yuan, Taiwan	Talk 14
17:10	Louguet, Stéphanie	Engineering the surface of magnetic nanoparticles by adsorption of double hydrophilic block copolymers	Pessac, France	Talk 15
17:25	MacDonald, Cristin	Effects of magnetite loading and time-varied magnetic field on MNP transport in soft medium and cellular uptake	Philadelphia, U.S.A.	Talk 16
17:40	Newman, Brant	Magnetic Endothelialization of Vascular Stents Facilitates Healing and Improves Patency	Rochester, U.S.A.	Talk 17
17:55	Pirmoradi, Fatemeh	A Magnetically Controlled Drug Delivery Device	Vancouver, Canada	Talk 18
18:10	Russo, Alessandro	Magnetic Scaffold for Advanced Osteochondral Tissue Engineering	Bologna, Italy	Talk 19
18:25	Wu, Tony	Intra-Arterial Application of Magnetic Nanoparticles for Targeted Thrombolytic Therapy: A Rat Embolic Stroke Model	Tao Yuan, Taiwan	Talk 20
18:40	Poster session (odd numb	pers) with beer and pretzels - PLEASE RATE POSTERS - sponsored by Magnisense and Stemcell Technologies		

Thursday	, May 27, 2010			
7:30	Registration desk opens			
8:30	Krishnan, Kannan	Tutorial I on Magnetic Things We All Should Know	Seattle, U.S.A.	Tutorial 1
	Session 4: Microsphere Synthes	sis - Chair: Kathy Saatchi (Canada)		
9:00	Ettenauer, Marion	Preparation of Magnetic Cellulose Microparticles as Markers in Extracorporeal Blood Purification	Krems, Austria	Talk 21
9:15	Furlan, Marco	Magnetic Gelation: A new Method to Produce Anisotropic Porous Polymeric Materials	Zurich, Switzerland	Talk 22
9:30	Kuznetsov, Anatoly	Magnetically guided microscopic electric batteries: manufacturing and biological applications.	Moscow, Russia	Talk 23
9:45	Xu, Hong	Development of immunomagnetic beads for rapid detection of Escherichia coli O157:H7 by immunomagnetic enrichment and real-time PCR	Shanghai, China	Talk 24
10:00	Group photograph			
10:15	Coffee break / poster session / e	xhibitors		
	Session 5: Nanoparticle Synthe	sis and Analysis - Chair: Kannan Krishnan (U.S.A.)		
10:45	Amstad, Esther	Adding Different Functionalities to Ultra-stable Superparamagnetic Iron Oxide Nanoparticles through Controlled Surface Modification	Zurich, Switzerland	Talk 25
11:00	Wawrzik, Thilo	Multi-Variant Magnetic Particle Spectroscopy for Magnetic Nanoparticle Characterization	Braunschweig, Germany	Talk 26
11:15	Dutz, Silvio	Physical Properties of Water Based Large Single Domain Particle Dispersions of Magnetite	Jena, Germany	Talk 27
11:30	Guerler, Celin	Magnetically Induced Hot Spots Promote a Locoregional Chemical Reaction	Düsseldorf, Germany	Talk 28
11:45	Jain, Nirmesh	Anchored Steric Stabilisation of Superparamagnetic Nanoparticles for Biomedical Applications	Sydney, Australia	Talk 29
12:00	Wang, Shan X.	Magneto-Nano Chips for Biomedical Diagnostics	Stanford, U.S.A.	Invited talk 3
12:40	Lunch			
	Session 6: Nanoparticle Synthe	sis and Analysis - Chair: Thompson Mefford (U.S.A.)		
14:00	Lellouche, Jean-Paul	Hydrophilic Maghemite (gamma-Fe2O3) Nanoparticles - Aggregation Control Using an Ultrasound-Assisted Doping Process of Particle Surface	Ramat Gan, Israel	Talk 30
14:15	Mahmoudi, Morteza	Synthesis of Rod-Shaped Superparamagnetic Iron Oxide Nanoparticles with Polyvinyl Alcohol	Tehran, Iran	Talk 31
14:30	Mistlberger, Guenter	Magnetically controlled, multifunctional nano devices	Graz, Austria	Talk 32
14:45	Nikitin, Maxim	Self-assembly of multifunctional nanoparticles via barnase and barstar	Moscow, Russia	Talk 33
15:00	Pellegrino, Teresa	Magnetic based nanobeads as multifunctional platforms for biomedical applications	Lecce, Italy	Talk 34
15:15	Truonc Phuoc, Lai	Magnetic nanosystems for the sentinel nodes detection	Strasbourg, France	Talk 35
15:30	Turcu, Rodica	Synthesis and characterization of biocompatible magnetically controllable nanostructures using different polymers or block copolymers	Cluj-Napoca, Romania	Talk 36
15:45	Yang, Liangrong	Fabrication of Temperature- and pH- Responsive Magnetic Nanoparticles and Their Reversible Agglomeration in Aqueous Milieu	Beijing, China	Talk 37
16:00	Yoo, Myung-lk	Synthesis of Individually Water-Soluble, Biocompatible, and Angiogenesis-Targeting Superparamagnetic Iron Oxide Nanoparticles	Seoul, Korea	Talk 38
16:15	Zierold, Robert	Synthesis of Biocompatible Magnetic Test-Tube-Shaped Nanoparticles by Atomic Layer Deposition	Hamburg, Germany	Talk 39
16:30	Coffee break / poster session / e	xhibitors		
	Session 7: Analytical Methods -	Chair: Sara Majetich (U.S.A.)		
17:00	Dennis, Cindi	Interactions in Magnetic Nanoparticle Systems: How to Identify Them and Their Consequences	Gaithersburg, U.S.A.	Talk 40
17:15	Lim, JitKang	Magnetophoretic motion control of individual Brownian nanoparticles	Penang, Malaysia	Talk 41
17:30	Liu, Wenzhong	Magnetic Nanoparticle Temperature Estimation Using AC Susceptibility	Wuhan, China	Talk 42
17:45	Salaklang, Jatuporn	Fixed bed magnetic reactor for surface derivatization of Superparamagnetic Iron Oxide Nanoparticles	Fribourg, Switzerland	Talk 43
18:00	Schaller, Vincent	Determination of nanocrystal size distribution in magnetic multi-core particles including interactions and magnetic anisotropy	Göteborg, Sweden	Talk 44
18:15	Tarn, Mark	Continuous magnetic microparticle-based sandwich immunoassays in a multilaminar flow microreactor	Hull, U.K.	Talk 45
18:30	Teste, Bruno	Magnetic core shell nanoparticles based homogeneous immunoassay	Paris, France	Talk 46
18:45	<u> </u>	with beer and pretzels - PLEASE RATE POSTERS - sponsored by Diagnostic Biosensors LLC and Life Technologies Corp.		
20:15		I friends, discuss new collaborations, and enjoy Warnemünde on your own!		

9:00 Be 9:15 Gc 9:30 lvk 9:45 Ka 10:00 Cc Se 10:30 Me 10:45 Pri	iession 8: Magnetic Hypertherm ierndl, Bettina Gogoi, Manashjit //kov, Robert .ashevsky, Bronislav coffee break / poster session / ex iession 9: Magnetic Hypertherm flartinez-Boubeta, Carlos rradhan, Pallab tau, Beate iouthern, Paul	a II - Chair: Quentin Pankhurst (U.K.) Self-assembled multifunctional fe/mgo nanospheres for MRI and hyperthermia Multifunctional magnetic liposomes for magnetic drug targeting and hyperthermia applications Thermotherapy of oesophageal cancer with superparamagnetic iron oxide nanoparticles	Seattle, U.S.A. London, U.K. Mumbai, India Baltimore, U.S.A. Minsk, Belarus Barcelona, Spain Mumbai, India Berlin, Germany	Tutorial 2 Talk 47 Talk 48 Talk 49 Talk 50 Talk 51 Talk 52
9:00 Be 9:15 Gc 9:30 lvk 9:45 Ka 10:00 Cc Se 10:30 Me 10:45 Pri	drishnan, Kannan dession 8: Magnetic Hypertherm derndl, Bettina desgoi, Manashjit dekov, Robert dashevsky, Bronislav deffee break / poster session / ex dession 9: Magnetic Hypertherm dartinez-Boubeta, Carlos dradhan, Pallab dau, Beate dession Beate descined by the session of	a I - Chair: Carlos Rinaldi (Puerto Rico) Antibody Targeted Magnetic Nanoparticle Hyperthermia for Cancer Therapy Thermosensitive magnetoliposomes containing biphasic mixture of metal oxide composite nanoparticles for combined cancer drug delivery and hyperthermia Development of magnetic nanoparticles and devices for thermal therapy of cancer: A radiosensitization study in mice bearing human prostate cancer xenografts Substantiation and in-vivo approbation of the low-frequency ferromagnetic hyperthermia hibitors a II - Chair: Quentin Pankhurst (U.K.) Self-assembled multifunctional fe/mgo nanospheres for MRI and hyperthermia Multifunctional magnetic liposomes for magnetic drug targeting and hyperthermia applications Thermotherapy of oesophageal cancer with superparamagnetic iron oxide nanoparticles	London, U.K. Mumbai, India Baltimore, U.S.A. Minsk, Belarus Barcelona, Spain Mumbai, India	Talk 47 Talk 48 Talk 49 Talk 50 Talk 51
9:00 Be 9:15 Gc 9:30 lvk 9:45 Ka 10:00 Cc Se 10:30 Me 10:45 Pri	derndl, Bettina Gogoi, Manashjit Vkov, Robert Lashevsky, Bronislav Coffee break / poster session / exitiession 9: Magnetic Hypertherm Martinez-Boubeta, Carlos Pradhan, Pallab Lau, Beate Louthern, Paul	Antibody Targeted Magnetic Nanoparticle Hyperthermia for Cancer Therapy Thermosensitive magnetoliposomes containing biphasic mixture of metal oxide composite nanoparticles for combined cancer drug delivery and hyperthermia Development of magnetic nanoparticles and devices for thermal therapy of cancer: A radiosensitization study in mice bearing human prostate cancer xenografts Substantiation and in-vivo approbation of the low-frequency ferromagnetic hyperthermia hibitors a II - Chair: Quentin Pankhurst (U.K.) Self-assembled multifunctional fe/mgo nanospheres for MRI and hyperthermia Multifunctional magnetic liposomes for magnetic drug targeting and hyperthermia applications Thermotherapy of oesophageal cancer with superparamagnetic iron oxide nanoparticles	Mumbai, India Baltimore, U.S.A. Minsk, Belarus Barcelona, Spain Mumbai, India	Talk 48 Talk 49 Talk 50 Talk 51
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	Rau, Beate Southern, Paul	Thermotherapy of oesophageal cancer with superparamagnetic iron oxide nanoparticles	- }	
	outhern, Paul			Talk 53
		Real-time In Vitro Analysis of Magnetic Hyperthermia using Optical and Fluorescent Microscopy	London, U.K.	Talk 53
	lank, Christian	Magnetofection – magnetically enhanced nucleic acid delivery, from research tool towards clinical application	Munich, Germany	Invited talk 4
	unch	wagnetorection – magnetically emianiced nucleic acid derivery, from research tool towards clinical application	Murlich, Germany	IIIVILEU LAIK 4
	OSTER PRIZE - Presented by Co	refula Guattrar		
		IRI - Chair: Tim St. Pierre (Australia)		
		Dual Functional Au coated Fe70Co30 High-Magnetic-Moment Nanoparticles for MR imaging and Therapy	Minnesota, U.S.A.	Talk 55
		MnO Nanocrystals as in vivo Time-Dependent T1 MRI Contrast Agents	Seattle, U.S.A.	Talk 56
		Molecular Imaging Bioprobes (MRI/SPECT) for Mesothelin Expressing Cancers	Vancouver, Canada	Talk 57
•••••••••••••••••••••••••••••••••••••••		Non-invasive in vivo mapping and long-term monitoring of magnetic nanoparticles in different organs of an animal	Moscow, Russia	Talk 58
		Calibration phantom for quantitative tomography analysis of biodistribution of magnetic drug carriers	Dresden, Germany	Talk 59
		Magnetic relaxation imaging using a fluxgate based scanner	Braunschweig, Germany	Talk 60
		Intracellular iron oxide nanoparticle coating stability determines nanoparticle usability and cell functionality	Leuven, Belgium	Talk 61
		Magnetic Nanoneedles for Optofluidic Applications	Clemson, U.S.A.	Talk 62
		Effect of the core size of monodisperse superparamagnetic nanoparticles on their relaxometric enhancing properties for MRI	Leuven, Belgium	Talk 63
		Cylindrical Magnetic Nanoshells for Multispectral MRI	Bethesda, U.S.A.	Talk 64
	offee break / poster session / ex			
·····		- Chair: Maciej Zborowski (U.S.A.)		
		On-chip generation and manipulation of magnetic w/o and o/w droplets	Hull, U.K.	Talk 65
		Equilibrium and nonequilibrium aggregation af superparamagnetic colloids	Bellaterra, Spain	Talk 66
		Circulating tumor cell detection by magnetic depletion of normal bloopd cells	Columbus, U.S.A.	Talk 67
		Improved Designs of a Microfabricated Magnetic Sifter for Biomolecule and Cell Purification	Stanford, U.S.A.	Talk 68
17:30 Fis		Colloidal transport and separation on magnetic garnet films	Bayreuth, Germany	Talk 69
		Microfluidic Chip-Based Immunomagnetic Detection of Circulating Tumor Cell	Austin, U.S.A.	Talk 70
		Nanoparticle Size and Surface Charge Determine Formation of Protein Corona, Cellular Uptake and Magnetic Resonance Imaging Properties	Aachen, Germany	Talk 71

Saturday,	May 29, 2010			
7:30	Registration desk opens			
8:30	Krishnan, Kannan	Tutorial III on Magnetic Things We All Should Know	Seattle, U.S.A.	Tutorial 3
	Session 12: Biological Applica	tions I - Chair: Shan Wang (U.S.A.)		
9:00	Antosova, Andrea	Magnetic fluids have ability to decrease amyloid aggregation associated with amyloid-related diseases	Kosice, Slovakia	Talk 72
9:15	Ho, Vincent	Magnetic cell labelling and manipulation in 2D and 3D cell cultures	Cambridge, U.K.	Talk 73
9:30	Bakandritsos, Aristides	Development of Functional Magnetic Targeted Carriers for Cationic Drugs	Patras, Greece	Talk 74
9:45	Laurencin, Mathieu	Human Erythrocytes Covered with Magnetic Core-Shell Nanoparticles as Multifunctional Drug Carriers	Paris, France	Talk 75
10:00	Palfreyman, Justin	Magnetic Barcoded Microcarriers for Biomolecular Labelling Applications	Cambridge, U.K.	Talk 76
10:15	Coffee break / exhibitors			
	Session 13: Biological Applica	tions II - Chair: Jeff Anker (U.S.A.)		
11:00	Riegler, Johannes	A simplified mathematical model for targeted magnetic delivery of cells using an MRI scanner	London, U.K.	Talk 77
11:15	Shoshi, Astrit	GMR-based real-time cell endocytosis monitoring of magnetic particles	Vienna, Austria	Talk 78
11:30	Sureshkumar, Manthiriyappan	Multifunctionalized magnetic bionanocomposites for biotechnology applications	Taipei, Taiwan	Talk 79
11:45	Thanh, Nguyen TK	Superparamagnetic Fluorescent Nickel-Enzyme Nanobioconjugates: Synthesis and Characterization of a Novel Multifunctional Biological Probe	London, U.K.	Talk 80
12:00	Torres-Lugo, Madeline	Examination of the Enhanced Potentiation of Combined Cisplatin Treatment with Magnetic Fluid Hyperthermia	Mayaguez, U.S.A.	Talk 81
12:15	Rozhkova, Elena	Biofunctionalized Magnetic-Vortex Microdiscs for Biomechanical Cell Actuation	Argonne, U.S.A.	Invited talk 5
12:55	Lunch			
	Session 14 : Biosensors - Chai	r: Frank Ludwig (Germany)		
14:00	Dempsey, Nora	Micro-structured hard magnetic films for lab-on-chip applications	Grenoble, France	Talk 82
14:15	Donolato, Marco	On chip detection and manipulation of biological entities carried by magnetic beads via domain wall conduits	Como, Italy	Talk 83
14:30	Enpuku, Keiji	AC susceptibility measurement of magnetic markers for liquid phase detection of biological targets	Fukuoka, Japan	Talk 84
14:45	Kinnunen, Paivo	Growth Measurements of Individual Bacteria with a Magnetic Bead Rotation Sensor	Ann Arbor, U.S.A.	Talk 85
15:00	Li, Yuanpeng	Biomarker quantification in unprocessed human sera by a competition-based nanomagnetic protein assay and high-magnetic-moment nanoparticles	Minneapolis, U.S.A.	Talk 86
15:15	Østerberg, Frederik	Chip-based measurements of Brownian relaxation of magnetic beads using a planar Hall effect magnetic field sensor	Lyngby, Denmark	Talk 87
15:30	Sivagnanam, Venkataragavalu	Study of spatio-temporal immunofluorescence on magnetic bead patterns in a microfluidic channel	Lausanne, Switzerland	Talk 88
15:45	·	ncement of the NEXT MEETING: Wolfgang Schuett / Jian Ping Wang		
16:00	Meeting ends	T T		