

7th International Conference on the Scientific and Clinical Applications of Magnetic Carriers - Vancouver, Canada

Tuesday, May 20, 2008

15:00	Registration desk opens at Gage Towers (until 18:00 - 6 PM) Possibility to visit the Anthropology Museum nearby from 17:00-21:00 (5-9 PM) for a reduced fee of \$5 - highly recommended!		
18:30	Registration desk opens in the student union building (SUB) upstairs (until 22:00 - 10 PM)		
19:00	Informal reception and welcome cocktail (apero) in the SUB upstairs - sponsored by <i>StemCell Technologies</i>		

Wednesday, May 21, 2008

7:30	Registration desk opens / Posters can be hung		
Opening Session			
9:00	Opening of the conference		
9:05	Burt, Helen Welcome by the Associate Dean of Research, Faculty of Pharmaceutical Sciences, UBC	Canada	
9:10	Hafeli, Urs Short review of the last 2 years of magnetic carriers	Canada	
9:30	Zimmerman, Peter Diagnosis of Malaria using Magnetic Separation	U.S.A.	Invited talk 1
10:10	Coffee break / poster session / exhibitors		
10:50	Session 1: Highlights from Different Areas		
10:55	Wang, Jian-Ping Physical design and synthesis of new multifunctional nanoparticles and nanoparticle-crystals for biomedical applications	U.S.A.	Talk 1
11:10	Rahn, Helene Tomographic Examination of Magnetic Nanoparticles used as Drug Carriers	Germany	Talk 2
11:25	Nikitin, Maxim Highly Sensitive Room-Temperature Method of Non-Invasive in vivo Detection of Magnetic Nanoparticles	Russia	Talk 3
11:40	Palfreyman, Justin Digital Biomagnetism: Electrodeposited Multilayer Magnetic Tags	U.K.	Talk 4
11:55	Aviles, Misael Isolated Swine Heart Ventricle Perfusion Model for Implant Assisted-Magnetic Drug Targeting	U.S.A.	Talk 5
12:10	Zabow, Gary Engineered microparticles for MRI	U.S.A.	Talk 6
12:25	Lunch upstairs		
13:55	Pankhurst, Quentin In vivo sensing, moving and heating of magnetic nanoparticles in the human body	U.K.	Invited talk 2
14:35	Session 2: Magnetic Drug Delivery / Gene Delivery		
14:40	Mykhaylyk, Olga Nucleic acid delivery to magnetically labelled cells	Germany	Talk 7
14:55	Rovers, Stefan Externally triggered on-demand drug delivery from polymer matrices induced by a magnetic field	The Netherlands	Talk 8
15:10	Chang, Jin Application of Tat and Folate Mediated Magnetic Nanoparticles in the Therapy of Epilepsy	China	Talk 9
15:25	Kuznetsov, Oleg Magnetically guided transport of anti-cancer drugs using nanostructured ferrocenyl particles – animal and clinical trials	Russia	Talk 10
15:40	Rosengart, Axel Magnetic Nanospheres for Targeted Thrombolysis: Flow studies and in vivo results	U.S.A.	Talk 11
15:55	Shapiro, Benjamin Dynamic Control of Magnetic Fields to Focus Drug-Coated Nano-Particles to Deep Tissue Tumors	U.S.A.	Talk 12
16:10	Coffee break / poster session / exhibitors - coffee break sponsored by CDRD		
16:40	Kroll, Torsten Nanoparticle driven imatinib delivery into target cells	Germany	Talk 13
16:55	Leslie-Pelecky, Diandra Biodistribution, Clearance, and Biocompatibility of a Novel Iron-Based Magnetic Nanoparticle Drug Delivery Formulation	U.S.A.	Talk 14
17:10	Mertz, Carol Exploiting the Electromagnetic Response of Polymer Composite Nanocarriers for Controlled Drug Release	U.S.A.	Talk 15
17:25	Darton, Nicholas The in-flow capture of superparamagnetic nanoparticles in microcapillary film as a potential model for targeting of gene therapeutics	U.K.	Talk 16
17:40	Pradhan, Pallab Targeted temperature sensitive magnetic liposomes for thermo-chemotherapy of cancer	India	Talk 17
17:55	Dobson, Jon Improved magnetic nanoparticle-based gene transfection using oscillating magnet arrays	U.K.	Talk 18
18:10	Poster session with Bierstube - PLEASE RATE POSTERS - sponsored by Diagnostic Biosensors		
19:40	Free evening - use it to meet old friends, discuss new collaborations, and enjoy UBC and Vancouver on your own!		

Thursday, May 22, 2008

Session 3: Nanoparticle Synthesis and Analysis			
8:30	Athanassiou, Evagelos Production of chemical functionalized carbon coated cobalt nanoparticles as a novel tool for magnetic separation technology	Switzerland	Talk 19
8:45	Dutz, Silvio Ferroluids of magnetic multicore nanoparticles for biomedical applications	Germany	Talk 20
9:00	Qin, Jian Putting Smart Clothes on Nanoparticles	Sweden	Talk 21
9:15	Schaller, Vincent Monte Carlo Simulation of Multi-Core Magnetic Nanoparticles	Sweden	Talk 22
9:30	Dilorio, Mark Ultra-sensitive magnetic bioassays and the need for a better magnetic nanoparticle	U.S.A.	Talk 23
9:45	Coffee break / poster session / exhibitors - coffee break sponsored by Integrated Engineering Solutions		
10:25	Holschuh, Karl Continuous Production of High Capacity Nanoparticles for Affinity Purification of Biomolecules	Germany	Talk 24
10:40	Huber, Dale Optimization of Magnetic Nanoparticles for Biodetection Where Size Control is Critical	U.S.A.	Talk 25
10:55	Ma, Zhi Ya Synthesis and characterization of multifunctional silica core-shell nanocomposites with magnetic and fluorescent functionalities	U.S.A.	Talk 26
11:10	Martinez-Boubeta, Carlos Novel Route to synthesizing Core-Shell Fe-MgO Nanospheres: High magnetization particles for biomedicine	Spain	Talk 27
11:25	Meissner, Daniel Tridentate ligands offer new ways for reliable functionalization of metallic nanoparticles	Germany	Talk 28
11:40	Nguyen, Thanh Tunable shapes of FePt magnetic nanoparticles	U.K.	Talk 29
11:55	Odenbach, Stefan Ferroluids	Germany	Invited talk 3
12:35	Lunch		
14:05	Hicks, Robin Molecular Magnets	Canada	Invited talk 4
14:45	Begin-Colin, Sylvie Study of magnetite phosphatation in view of improving grafting	France	Talk 30
15:00	Riffle, Judy Dispersion properties of magnetite-polymer complexes in physiological media	U.S.A.	Talk 31
15:15	Salakiang, Jatuporn Fixed bed micro-reactor for surface derivatization of Superparamagnetic Iron Oxide nanoparticles	Switzerland	Talk 32
15:30	Grass, Robert Are carbon coated metal nanoparticles a high magnetization alternative to oxide based beads?	Switzerland	Talk 33
15:45	Tanaka, Toshiyuki Preparation of spherical and monodisperse ferrite nanoparticles with diameters between 50-150 nm for biomedical applications	Japan	Talk 34
16:00	Lalatonne, Yoann Novel magnetic labels for bioassays	France	Talk 35
16:15	Lim, JitKang Synthesis and Stabilization of Iron Oxide-Core, Gold-Shell Nanoparticles for Biosensing	U.S.A.	Talk 36
16:30	He, Ping Preparation of mono-dispersed nanobeads by miniemulsion polymerization and application in lateral flow immunoassay	China	Talk 37
16:45	Prozorov, Tanya Novel Bio-Inspired Route to Complex Ferrite Nanomaterials	U.S.A.	Talk 38
17:00	Poster session with Bierstube - PLEASE RATE POSTERS - sponsored by Magnisense		
18:30	End of session / Bus to harbour and boat trip including dinner; will be back around 23:00 (11 PM)		

Friday, May 23, 2008

Session 4: Hyperthermia			
8:30	Goya, Gerardo	Cell Internalization of Magnetite Nanoparticles by Dendritic Cells for Intracellular Magnetic Hyperthermia	Spain Talk 39
8:45	Haik, Yousef	Multifunctional Nanoparticles for Imaging-Guided Interventions	U.S.A. Talk 40
9:00	Kallumadil, Mathew	Suitability of Commercial Magnetic Colloids for Magnetic Hyperthermia	U.K. Talk 41
9:15	Lacava, Zulmira	Evaluation of Magnetohyperthermia and Photodynamic therapy in Erlich Ascitic Tumor bearing animals	Brazil Talk 42
9:30	Innocenti, Claudia	Influence of structural and magnetic properties of cobalt ferrite and magnetite nanoparticles on hyperthermal effectiveness	Italy Talk 43
9:45	Dennis, Cindi	The Influence of Collective Behavior on the Magnetic and Heating Properties of Iron Oxide Nanoparticles	U.S.A. Talk 44
10:00	Coffee break / poster session / exhibitors		
10:40	Session 5: Analytical Methods		
10:45	Ibraimi, Filiz	Magnetic Permeability Based Diagnostic Test for Determination of Canine C-Reactive Protein Concentration in Whole Blood	Sweden Talk 45
11:00	Lee, Gil	Non-linear Magnetophoretic Separation Using Micro-Magnet Arrays	U.S.A. Talk 46
11:15	Mistberger, Günter	Magnetic optical sensor particles: A versatile tool for life science	Austria Talk 47
11:30	Ludwig, Frank	Characterization of nanoparticles by magnetorelaxometry, ac susceptibility, TEM and photon correlation spectroscopy – a comparative study	Germany Talk 48
11:45	St. Pierre, Tim	Apparent dependence of the interfacial energy of suspended ferrofluid droplets on magnetic field strength	Australia Talk 49
12:00	Martel, Sylvain	Automatic transport of magnetic particles in the blood vessels using a clinical MRI system	Canada Invited talk 5
12:40	Lunch		
13:55	POSTER PRIZE Cordula Gruetner		
14:00	Session 6: Imaging		
14:05	Insin, Numpon	Silica Microspheres and Silica Nanoparticles Containing Magnetic Nanoparticles and Semiconductor Quantum Dots	U.S.A. Talk 50
14:20	Horák, Daniel	The Effect of Magnetic Nanoparticle Coating on the Efficiency of Stem Cell Labeling	Czech Republic Talk 51
14:35	Wiekhorst, Frank	A stand-alone multi-channel magnetorelaxometry device for quantitative and spatial resolved MNP detection	Germany Talk 52
14:50	Markov, Denis	Magnetic Particle Imaging: quantitative assessment of tracer performance	The Netherlands Talk 53
15:05	Zenke, Martin	Magnetic Nanoparticles for Tracking of Stem Cells and Dendritic Cells	Germany Talk 54
15:20	Roca, Alejandro G.	Understanding the relaxometric properties of high quality MR contrast agents based on magnetite nanoparticles	Spain Talk 55
15:35	Surguladze, Besiki	Ultrasound Imaging of Sentinel Lymph Nodes in The Patients With Breast Cancer by Using The Preparation "Unimag"	Georgia Talk 56
15:50	Coffee break / poster session / exhibitors		
16:30	Session 7: Magnetic Separation Chairs: Maciej Zborowski and Jeff Chalmers (U.S.A.)		
16:35	Earhart, Chris	Microfabricated Sifter for High-throughput and High-gradient Magnetic Separation	U.S.A. Talk 57
16:50	Farauo, Jordi	Experimental and theoretical study of a novel and fast magnetophoretic separation technique using low magnetic gradients	Spain Talk 58
17:05	Wilson, Robert	Cell Separations Using Magnetic Chains and Grids	U.S.A. Talk 59
17:20	Prina-Mello, Adriele	High content screening of nanomaterial toxicological response to proliferating MC3T3-E1 osteoblast cells: a time course study	Ireland Talk 60
17:35	Abe, Masanori	High-throughput bioscreening utilizing high-performance affinity magnetic carriers exhibiting minimal non-specific protein binding	Japan Talk 61
17:50	Sinha, Ashok	Characterizing magnetic separation systems for μ -TAS	U.S.A. Talk 62
18:05	Pamme, Nicole	Magnetic microparticles as manoeuvrable solid supports for multi-step (bio)reactions in continuous flow.	U.K. Talk 63
18:20	Carpino, Francesca	Characterization of magnetic nanoparticles using quadrupole magnetic field-flow fractionation	U.S.A. Talk 64
18:35	End of session / Vancouver city tour on yellow school buses		

Saturday, May 24, 2008

Session : Biological Applications			
8:30	Crecea, Vasilica	Measuring Biomechanical Properties of Tissue Phantoms with Magnetomotive Optical Coherence Elastography	U.S.A. Talk 65
8:45	Hajdú, Angela	Predictive stability test for salt tolerance of water based magnetic fluids	Hungary Talk 66
9:00	Tresilwised, Nittaya	Oncolytic adenovirus magnetic complexes: characteristics and biological efficacy in vitro	Thailand Talk 67
9:15	Erb, Randall	Kinetics of Nonmagnetic Particle Chain Growth in Biocompatible Ferrofluid	U.S.A. Talk 68
9:30	Kose, Ayse	Rapid and effective cellular manipulation and separation	U.S.A. Talk 69
9:45	Dragnea, Bogdan	On the encapsulation of superparamagnetic nanoparticles in icosahedral virus capsids	U.S.A. Talk 70
10:00	Cui, Yali	Applications of GoldMag Particles in Molecular Biology	China Talk 71
10:15	Coffee break / exhibitors		
10:45	Ménager, Christine	Vesicles encapsulating quantum dots and magnetic nanoparticles for multimodal imaging	France Talk 72
11:00	Saatchi, Kathy	Regulation of Cardiac Metabolism with Magnetic Particles	Canada Talk 73
11:15	Safarik, Ivo	Hydrogen Peroxide Removal with Magnetically Responsive <i>Saccharomyces cerevisiae</i> Cells	Czech Republic Talk 74
11:30	Xie, Xiaomao	Application of Magnetic Nano Particles to Full-automated Chemiluminescent Enzyme Immunoassay (CLEIA)	Japan Talk 75
11:45	Aref, Amirreza	Monitor the kinetics of stem cells differentiation on nanosurfaces using optical waveguides	U.K. Talk 76
12:00	Bäumler, Hans	Red blood cells as carriers for magnetically targeted delivery of drugs	Germany Invited talk 6
12:40	Lunch - Salmon Barbecue - sponsored by Integrated Magnetics		
13:55	Session : Biosensors		
14:00	Ghionea, Simon	Lab On A Chip Detection of Biomolecules Using Magnetic Bead Labels	U.S.A. Talk 77
14:15	Schotter, Joerg	Development of a magnetic lab-on-a-chip for point-of-care diagnosis	Austria Talk 78
14:30	Stakenborg, Tim	Magnetic beads on biosensor platforms for protein, DNA and cell detection	Belgium Talk 79
14:45	Aurich, Konstanze	Affinity Analysis for Biomolecular Interactions Based on Magneto-Optical Relaxation Measurements	Germany Talk 80
15:00	Eberbeck, Dietmar	Measurement of the specific binding of functionalised MNP in whole blood	Germany Talk 81
15:15	Taton, Kristin	Lateral Flow Immunoassay Using Magnetoresistive Sensors	U.S.A. Talk 82
15:30	Lenglet, Luc	Multiparametric Magnetic Immunoassay	France Talk 83
15:45	Closing Comments and Announcement of the NEXT MEETING: Urs Hafeli / Maciej Zborowski / Wolfgang Schuett		
16:00	End of the scientific part of the meeting		

Preliminary program as of May 9, 2008