

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

Poster Presentations

#	First Author	Poster Title
Gene Delivery		
1	Jon Dobson	Improved magnetic nanoparticle-based gene transfection using Halbach arrays
2	K. Kamei	Direct Cell-entry of Gold/iron-oxide Magnetic Nanoparticles Enhanced Adenovirus Mediated Gene Expression in Adenovirus-resistant cells
3	Aparajita Khatri	Adenoviral vectors and magnetic nanoparticles: Prospects in cancer gene therapy
4	Boris Polyak	Superparamagnetic polymeric nanoparticles efficiently enhance non-viral nucleic acid delivery
5	Yolanda Sanchez Antequera	Magslectofection – combined magnetic cell separation and magnetofection
6	Xiaoliang Wang	Non-viral Gene Transfection Enhanced by Magnetic Nanoparticles
Hyperthermia		
7	Daniele Bonacchi	New nanodevice based on cobalt ferrite for magnetic fluid hyperthermia
8	Nikolai Brusentsov	Combined MRI-adaptive Magnetohydrodynamic Thermochemotherapy for Improved Cancer Treatment
9	Tatiana Brusentsova	RE –substituted Mn-Zn ferrite nanoparticles: size-dependent magnetic properties and AC-heating efficiency
10	Cindi Dennis	The Influence of Temperature on the Magnetic Behavior of Colloidal Cobalt Nanoparticles
11	Atsuo Hirukawa	Temperature rise of Fe ₃ O ₄ nanoparticle measured under ac magnetic field and its evaluation by ac magnetization curve
12	Arkadiusz Jozefczak	The effect of preparation of surface-active coating on the physical properties of biocompatible magnetic liquids
13	Timothy Kline	Bio-Compatible High-Moment Magnetic Nanoparticles for Hyperthermia Treatment Optimization
14	Eva Natividad	Specific Absorption Rate of Ferrofluids using a new adiabatic magnetothermal setup
15	Emil Pollert	Search for new core materials for magnetic fluid hyperthermia
16	N. K. Prasad	A novel approach to magnetic hyperthermia using biphasic gel of La _{1-x} Sr _x MnO ₃ and maghemite
17	Amit Sharma	Core shell iron-iron oxide magnetic nanoparticles for cancer treatment
18	Makoto Suto	Heat dissipation mechanism of nanoparticle in magnetic fluid hyperthermia
19	Makoto Suto	Heat diffusion characteristics of magnetite nanoparticles Dispersed Hydro-gel in AC magnetic field
20	Milan Timko	Magnetic properties and heating effect in bacterial magnetic nanoparticles
21	Ainhoa Urtizberea	Concentration effects in Maghemite-Based Ferrofluids
22	X.F. Wang	Magnetic Hyperthermia in Tsinghua University
23	Liyang Zhang	Heating ability of monodisperse magnetite nanoparticles with various sizes by solvothermal method
Magnetic Separation		
24	Entesar Al-Hetlani	Generation and Manipulation of Magnetic Droplets
25	Jeff Chalmers	Quantification of non-specific binding of magnetic nanoparticles: Implication for detection and magnetic cell separation
26	Haitao Chen	3-D Modeling and in vitro investigation of portable high gradient magnetic separator device designs for blood detoxification
27	Ting-Hao Chung	Application of Magnetic Poly(Styrene-Glycidyl methacrylate) Microspheres for Immunomagnetic Separation of Bone-Marrow Cells
28	D. Huska	The effect of length of adenine chain on its isolation and detection using paramagnetic particles coupled with square wave voltammetry
29	Michail Larin	Development of magnetic SiO ₂ -coated, antibody-targeted particles
30	Miyaji Masaaki	Development of low nonspecific bonding magnetic beads for bioseparation
31	Takashi Nakabayashi	Magnetic particles with high magnetization for immunoassay
32	Joong Hee Nam	Preparation and Characterization of Electrospinning NiZn-ferrite Nanofibers for DNA Separation
33	Joong Hee Nam	Spray-dried Yttrium Iron Garnet Powders for Bio-purification
34	Pulak Nath	A magnetophoresis chamber with 25 fractions output – design, fabrication and demonstration
35	Mohammad Nejadmoghaddam	Optimization of magnetic affinity separation method for Highly-efficient purification of polyhistidine-tagged Proteins
36	Sally Peyman	On-chip deflection of magnetic microparticles in continuous flow. A comparative study.
37	Agmon Porat	Combinatorial Magnetic Separation - a novel third generation concept

38	Thomas Schneider	Scale-up and comparability study of T-cell depletion in single inlet – single outlet QMS
39	Adriana Sprincova	Effects of ionizing radiation on induction of deletion mutants in yeast <i>Saccharomyces cerevisiae</i>
40	P. Stephen Williams	Theory for Nanoparticle Retention Time in the Helical Channel of Quadrupole Magnetic Field-Flow Fractionation
41	Liping Yu	Magnetic Focusing for Cell Enrichment and Analysis
42	Wen Zeng	Research on relationship between surface structure and morphology of Fe ₃ O ₄ /Silica composite nanospheres and nucleic acid extraction
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44	Nathalie Bock	Magnetic scaffolds for tissue engineering
45	Bárbara Carriço	Adsorption of doxorubicin onto magnetic nanoparticles for drug targeting
46	P. J. Cregg	Calculation of Dipole Interactions in Magnetic Drug Targeting
47	Gunnar Gloeckl	Magnetic Drug Targeting to the Lung: Preliminary In vitro Investigations
48	Xiuqing Gong	Magnetically Responsive Core-shell Microspheres for Smart Drug Delivery
49	D. Guedes	Amphotericin B magnetic carriers for lung diseases treatment
50	Nathan Kohler	Tumstatin Conjugated Iron-oxide Nanoparticles for MRI Contrast Enhancement and Anti-Angiogenic Drug Therapy.
51	P. G. Kyrtatos	Targeted delivery of SPIO-labelled progenitor cells to a site of vascular injury using an external magnetic actuator
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53	G. U. Marten	Magnetic Polymer Brushes for Bioseparation and Magnetoresponse Drug Delivery Systems
54	Devesh Misra	Magnetic Drug-Targeting Carrier Encapsulated with Thermo-sensitive Smart Polymer
55	Claudia Nadejde	Biocompatible Magnetic Fluid Application in Drug Targeting Methods
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57	Luis Nunez	Physical and Biochemical Targeting of Cisplatin loaded Particles in Squamous Cell Carcinomas of the Head and Neck (SCCHN)
58	Mingli Peng	Synthesis and Characterization of Magnetite HP-beta-CD Composite and Its Application as a Carrier of Doxorubicin
59	Nikorn Pothayee	Internalization of Metal Oxide Nanoparticles in Multi-drug Resistant (MDR) Cancer Cells: Influence of Poly(ethylene-b-propylene oxide) copolymer shells
60	M. Rodrigues	Preparation and characterization of the BSA/magnetic-nanoparticles for synergic application in Photodynamic Therapy and Hyperthermia
61	Axel Rosengart	Magnetic Nanospheres for Targeted Thrombolysis Fabrication: Drug Release and In Vitro Magnetic Trapping
62	Palanisamy Selvamani	Formulation Development and Evaluation of Metronidazole Magnetic Nanosuspensions as a Novel Magnetic Targeted and Polymeric Controlled Drug Delivery System with Improved Therapeutic Properties
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67	Patricia Stepp	Magnetically Guided Targeted Drug Delivery Across the Blood Brain Barrier
68	Hanwen Sun	Poly(PEGMA) modified superparamagnetic nanogels: preparation via photochemical method and application in drug carrier
69	R. Tietze	Quantification of magnetic nanoparticles for cancer therapy
70	John Wong	Stimuli-responsive hybrid core-shell nanocapsules
71	Siao-Yun Wu	Magnetic Nanoparticles for Target Thrombolysis in a rat embolic model
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77	K. Barick	A new MR active Colloidal Amine-Functionalized Iron Oxide Nanoassembly

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80 T. J.	Daou	Dendronised magnetite nanoparticles as contrast agent for MRI
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83 N.	Gharehaghaji	Size Evaluation of Lymph Node is protocol Dependence in MRI Using Ultrasmall Superparamagnetic Iron Oxide Nanoparticles
84 Mamoru	Hatakeyama	Novel magnetic carrier encapsulating a fluorescent substance and ferrite nanoparticles in the functional polymers for biomolecular recognition and imaging
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86 P.	Huffstetler	Synthesis and Characterization of Magnetite Nanoparticles Stabilized Via Amphiphilic Diblock Copolymers for Use in MR Imaging
87 Katerina	Kluchova	Functionalized nanomaghemite from iron(II) acetate for medical and biochemical applications
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90 M.	Pyshnyi	Method of synchronous ultrasonic Doppler imaging of magnetic microparticles in vivo.
91 Jian	Qin	Polymer Coated Superparamagnetic Nanoparticles for Cellular Uptake and MRI Detection
92 Hanwen	Sun	The synthesis of dendrimer-modified superparamagnetic contrast agent and its application in enhancing MR Imaging of hepatocellular carcinoma
93 Tao	Tang	Carbocyanine Labeled BMPs for Optical Imaging in vitro and in vivo
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100 Noriyuki	Hirota	Lattice spacing control in the triangle lattice of feeble magnetic materials formed by interactions among the induced magnetic dipoles
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104 Andrea	Astalan	DynoMag – AC Susceptometer for Magnetic Characterization of Particles
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106 Rafal	Rakoczy	Informational Assessment of Heating Effect of Ferrromagnetic Disperse Systems in Rotating Magnetic Field
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109 Nora	Theilacker	The Biobarcode-Assay - An automated approach for the ultrasensitive detection of proteins
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115	Bellal	Hossain	Grain size effect MR on Polycrystalline La _{1-x} Ca _x Fe ₁₂ O ₂₂ ; (where A=Ca, Sr Ba and X=0.2,0.15)
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127	Guangjun	Cheng	Characterization of the dipolar chains formed by cobalt nanoparticles
128	Hongjing	Dou	Fabrication of Fluorescent-Magnetic Bifunctional Nanoparticles
129	Silvio	Dutz	Magnetic properties of water based magnetite-citrate-ferrofluids with high particle concentrations
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132	Radostina	Georgieva	Tuning of the magnetic moment of nanoparticles in microcompartments
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139	Maria	Ivanovskaya	Structure and Magnetic Properties of gamma-Fe ₂ O ₃ -SiO ₂ Nanocomposites Obtained by Sol-Gel Approach
140	Lamar	Mair	Templated electrodeposition of aspect ratio adjusted Ni micro- and nanorods and their magnetically driven diffusion through an extracellular matrix
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146	Yi-Cheng	Lee	Manganese Oxide Nanocrystals as Versatile MRI-T1 Contrast Agents
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148	V.	Lobaz	Cell Recognizable Magnetic Nanocarriers for Tumor Targeting, Detection and Hyperthermia Administration: Oligoperoxide Surfactant Based Synthesis
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150	Le	Lu	Stable water-soluble magnetic hollow CoPt nanoparticles
151	Michael	Maskos	Multifunctional, multicompartments polyorganosiloxane nanoparticles for the flow free transport in microfluidic channels
152	O. Thompson	Mefford	Determination of the Size and Stability of Polydisperse Suspensions of PDMS-Magnetite Nanoparticle Complexes
153	Eberhard	Müller	Control of Phase Composition in Magnetic Iron Oxide Nanopowders Produced by CO ₂ Laser Evaporation
154	Hironori	Nagai	Seed crystals added to reaction solution play a critical role in determining the size of highly monodisperse ferrite nanoparticles during synthesis
155	M.	Pauly	Thin films of functionalized nanoparticles for magnetic and magneto-transport applications

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160	Ian	Robinson	A versatile approach for producing water-stable magnetic nanoparticles: ligand exchange
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168	Guoxin	Zhang	Preparation and Characterization of Multiple-functional CoFe ₂ O ₄ @ZnO Nanocomposites
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172	Mikhail	Avdeev	Magnetic Fluids for Glioblastoma Cancer Treatment
173	Andrey	Belousov	The first steps on ways to opening the mechanisms of cell regulation by nanotechnology preparations
174	Severine	Brule	Magnetizable 3D matrix biomaterial for cell therapy
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176	Oender	Celik	The use of static magnetic fields in the prevention of the conception: the design and biological assessment of a new intrauterine device
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178	Luciana	Estevanato	Magnetic albumin polymers as drug carriers
179	Birgit	Fischer	Engineered ferrofluid for pathogen detection
180	Andrea	Fornara	Magnetic nanoparticles for protein purification and water
181	T.	Georgelin	Bi-functionalization of Fe ₂ O ₃ @SiO ₂ core-shell nanoparticles for enzyme conjugation
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189	Stephan	Karl	Enhanced Detection of Gametocytes by Magnetic Deposition Microscopy Predicts Higher Potential for Malaria Transmission
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