

12th International Conference on the
Scientific and Clinical Applications of Magnetic Carriers
 Copenhagen, Denmark | May 22-26, 2018

Poster Session I - Wednesday, May 23, 2018

Magnetic Hyperthermia

1	Asin	Laura	Antitumoral effect of in vivo Magnetic Hyperthermia	Spain
2	Avolio	Matteo	In-gel study of the effect of magnetic nanoparticles immobilization on their heating efficiency for application in Magnetic Fluid Hyperthermia	Italy
3	Gebauer	Benjamin	Magnetic nanoparticle assisted regional deep hyperthermia using a conventional radio wave hyperthermia system	Germany
4	Bilici	Kubra	Investigation of the photothermal therapy potential of small iron oxide nanoparticles over the 730-840 nm spectral region	Turkey
5	Cabrera	David	Influence of the Intracellular Environment on the Dynamical Magnetic Response of Iron Oxide Nanoparticles	England
6	Coisson	Marco	Hysteresis losses and specific absorption rate measurements in magnetic nanoparticles for hyperthermia applications	Italy
7	Cotin	Geoffrey	Shape matters! The role of shape anisotropy on iron oxide nanoparticles theranostic properties	France
8	Engelmann	Ulrich	Heating of Magnetic Nanoparticles under Gradual Immobilization in Hydrogels	Germany
9	Engelmann	Ulrich	Predicting Size-Dependent Heating Properties of Magnetic Iron-Oxide Nanoparticles from Experiment and Simulation	Germany
10	Fernandez-Gubieda	Maria Luisa	Magnetotactic bacteria as a therasnotic agents	Spain
11	Gong	Tianxing	Development of Magnetic Nanoparticles-Combined Bioceramic Bone Scaffolds for Bone Cancer Treatment	China
12	Gutierrez	Lucia	A ROADMAP TO THE STANDARDIZATION OF IN VIVO MAGNETIC HYPERTHERMIA	Spain
13	Ichiyanagi	Yuko	Functional Magnetic Nanoparticles for Diagnostics and Therapies	Japan
14	Iszály	Zsófi	Functional Magnetic Nanoparticles for Diagnostics and Therapies	Hungary
15	Johansson	Christer	Magnetic particle hyperthermia performance at different core sizes and magnetic interactions	Sweden
16	Kaczmarek	Katarzyna	MAGNETO-ULTRASONIC HEATING WITH NANOPARTICLES	Poland
17	Konopacki	Maciej	Effect of rotating magnetic field on ferromagnetic structures used in hyperthermia	Poland
18	Lemal	Philipp	Exploring the thermal behavior of superparamagnetic nanoparticles at high concentrations	Switzerland
19	Makridis	Antonios	A standardization protocol for accurate and reliable magnetic particle hyperthermia evaluation	Greece
20	Mandal Goswami	Madhuri	Wetchemical synthesis of Fe/Pt nanoparticles: tuning of magnetic properties and biofunctionalization for hyperthermia therapy	India
21	Maniotis	Nikolaos	Modeling the anisotropy effects on the specific loss power of ferromagnetic nanoparticles	Greece
22	Muñoz	David	Checking the efficiency of magnetosomes in magnetic hyperthermia for cancer treatment	Spain
23	Myrovali	Eirini	Regional Focus effect on Magnetic Particle Hyperthermia efficiency	Greece
24	Orsi	Davide	A multi-therapy strategy to treat deep tumors: Fe ₃ O ₄ - CeF ₃ - ZnO nanostructures to combine Magnetic Hyperthermia and Self-Lighted Photodynamic Therapy	Italy
25	de la Presa	Patricia	AC-magnetometry and calorimetry on Fe ₃ O ₄ and Fe ₂ O ₃ nanoparticles	Spain
26	Pieri	Kayla	Enhancing magnetic anisotropy with chained-particle magnetic composites for nanoparticle hyperthermia	United States
27	Riahi	Kalthoum	Evaluation of magnetic nano-perovskites La _{0.7} Sr _{0.3} Mn _{1-x} BxO ₃ (B=Mo, Ti) synthesized via GNP method for hyperthermia application	Netherlands
28	Shah	Saqlain	Magneto-photothermal effects of pegylated superparamagnetic iron-oxide nanoparticles for multimodal cancer therapy	Pakistan
29	Simsek	Telem	Magnetic and Magnetothermal Properties of Manganese Monoboride (MnB) Nanoparticles	Turkey
30	Stergar	Janja	Mn-Zn ferrite nanoparticles coated with mesoporous silica as core material for magnetically activated release of therapeutic agents	Czech Republic
31	Anilkumar	T S	Dual Targeted Magnetic Photosensitive Liposome for Photothermal/Photodynamic Tumor Therapy	Taiwan
32	Takemura	Yasushi	Enhanced specific loss power from Resovist achieved by aligning magnetic easy axes of nanoparticles for hyperthermia	Japan
33	Rubia-Rodriguez	Irene	In silico prediction of tissue damage and power deposition maps in human models for magnetic hyperthermia treatments	Spain
34	Youhannayee	Maryam	Uptake of iron oxide nanoparticles of different prostate cancer cells	Germany

Magnetic Drug Delivery				
35	Beklemisheva	Anna	Ferromagnetic micro-wires arrays for remote regulation of cell migration and focused drug delivery.	Russia
36	Berkov	Dmitry	Permanent magnet system for targeted drug delivery: an optimization methodology	Germany
37	Bernad	Sandor	Drug targeting investigation in the critical region of the arterial bypass graft	Romania
38	Bernad	Sandor	Hemodynamic effects on particle targeting in the arterial bifurcation for a different type of particles	Romania
39	Blümler	Peter	Aggregation and Hydrodynamics of Superparamagnetic particles in Mag-Guider systems	Germany
40	De	Debarati	Synthesis and characterization of different types of manganese ferrite nanoparticles for drug release application	India
41	Gonella	Veronica	Magnetic Drug Targeting: a preliminary numerical model	Austria
42	Idiogo López	Javier	Nucleic acid-functionalized iron oxide nanoparticles for controlled drug release using magnetic hyperthermia	Spain
43	Jose	Gils	Hyaluronic Acid Modified Bubble-Generating Liposomes for Magnetically Triggered Targeted Chemotherapeutics	Taiwan
44	Kong	Seong	Cardiac Myocyte targeted Drug Delivery using Magnetically vector nanoparticles	Korea
45	Kotelnikova	Polina	Development of biocompatible nanoparticles modified with magnetite binding protein for cancer theranostics	Russia
46	Kralj	Slavko	Partially hollow nanostructures for magnetically-assisted drug delivery	Slovenia
47	Latha	Subbiah	Chitosan-Polyvinyl alcohol-based pH-sensitive ferrogel beads for magnetically localized mucoadhesive controlled drug delivery in GI tract	India
48	Latha	Subbiah	Preparation and evaluation of magnetoliposomes co-encapsulated with herbal extracts for magnetic targeted therapy of breast cancer	India
49	Ménager	Christine	Magnetic Hyperthermia at the Nanoscale for Remotely Triggered Drug Delivery from Polymeric Nanocarriers	France
50	Mirkasymov	Aziz	Mononuclear phagocyte system blockade, caused by the uptake of magnetic nanoparticles	Russia
51	Ngo	Sin-Ting	PEGylated Nanoparticle-Induced Hypotensive Effects: Hemodynamic Mechanisms	Taiwan
52	Pham	Nguyen	Iron oxide polymer nanorattles as nanocarriers for targeted tumor therapy	Australia
53	Selvamani	Palanisamy	Polyvinyl alcohol-based ferrogel system for magnetic field guided acid triggered delivery of omeprazole	India
54	Shetty	Aishwarya	Development of Fe ₃ O ₄ -CuS nanocomposite modified with Poly-L-Lysine for drug delivery and imaging	India
55	Vlasova	Kseniia	Magnetically responsive liposomes for delivery and remote-controlled release of high-molecular compounds.	Russia
56	Wei	Haoran	Experimental quantification of volume loss rate and flow dynamics due to a magnetically localized fluid region in a laboratory model blood vessel flow	United States
57	Yu-Jen	Lu	Cetuximab-conjugated thermosensitive magnetic liposome for targeted delivery of Irinotecan in glioma treatment	Taiwan
58	Zahn	Diana	Development of a magnetic field applicator for magnetic nanoparticle targeting to the eye	Germany
59	Zahn	Diana	Temperature controlled Camptothecin release from magnetic PLGA microspheres	Germany
Analytical Methods				
60	Bemetz	Jonas	Detection of Legionella pneumophila in Porous Monolithic Filter Systems by a Miniaturized Nuclear Magnetic Resonance System	Germany
61	Dobroserdova	Alla	The Magnetic Response of Magnetoactive Elastomers via the FORCs Method	Russia
62	Draack	Sebastian	Temperature dependence of harmonic spectra studied by Magnetic Particle Spectroscopy	Germany
63	Elrefai	Ahmed	Magnetic Parameters Evaluation of Magnetic Nanoparticles for Use in Biomedical Applications	Japan
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65	Gutierrez	Lucia	Transformations of nanoparticles composition, size and aggregation followed by AC susceptibility	Spain
66	Hillion	Arnaud	Mechanical performance of magnetic nanoparticle assemblies under low frequency rotating field	France
67	Johansson	Christer	Nanorheological studies of xanthan/water solutions using magnetic nanoparticles	Sweden
68	Kai	Hua	GoldMag [®] -Magnetic Lateral Flow Immunoassay for NT-proBNP Detection	China
69	Löwa	Norbert	Novel platform for the multidimensional analysis of magnetic nanoparticles	Germany
70	Mullerova	Sindy	Magnetic textile solid phase extraction of basic dyes	Czech Republic
71	Radon	Patricia	Laboratory magnetorelaxometry device for characterization of magnetic nanoparticles	Germany
72	Remmer	Hilke	Dynamics of magnetic nanoparticles in Newtonian and viscoelastic media	Germany
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74	Schober	Gretchen	Using Multimodal Phosphor Particles to Monitor Radiopharmaceutical Release and Accumulation in vivo	United States
75	Viereck	Thilo	Multi-spectral Magnetic Particle Spectroscopy for the investigation of particle mixtures and particle mobility	Germany
76	Wegemann	Andreas	Automated Synthesis of Magnetic Nanoparticles and Process Monitoring by Nuclear Magnetic Relaxation	Germany

Nanotechnology				
77	Castellanos-Rubio	Idoia	Inorganic-Polymeric Microdisks Loaded with Ferromagnetic Nanoparticles for Long-Term Cell Control	Spain
78	Chandra	Sudeshna	Surfactant modulated interactions of magnetic nanoparticles with biomolecules: An insight through electrochemistry and surface-enhanced Raman spectroscopy	India
79	Chiriac	Horia	FeCrNbB Ferromagnetic Particles with Shape Anisotropy for Cancer Cell Destruction by Magneto-Mechanical Actuation	Romania
80	Das	Arpita	DNA engineered magnetically tuned cobalt ferrite for hyperthermia application	India
81	Dmitry	Zablotsky	Self-assembly of magnetic particles and rheology of their dispersions studied by numerical simulations	Latvia
82	Emadi	Masoomeh	Synthesis of Magnetic Iron Oxide and Modified Iron Oxide Nanoparticles with Starch and Study of Their Effectiveness in the Separation of Phosphate Ion from Real Sample	Iran
83	Felder-Flesch	Delphine	Mastering active targeting, alleviating unspecific cellular uptake and tailoring in vivo fate of USPIOs through a dendritic coating	France
84	Gabbasov	Raul	Study of Brownian motion of Magnetic Nanoparticles in Viscous Media by Mössbauer spectroscopy	Russia
85	Gapon	Igor	Ordering of magnetic nanoparticles on surfaces: neutron and x-ray reflectometry data	Russia
86	Garbarino	Francesca	Magnetic microbead sample handling integrated with optomagnetic nanobead detection	Denmark
87	Gdovinova	Veronika	AFM and SANS studied on the interaction of magnetic nanoparticles with lysozyme amyloid fibrils	Slovak Republic
88	Goetzfried	Marisa	Magneto-functional DNA Nanostructures using Ferritin-based Magnetic Nanoparticles	Germany
89	Gorsak	Tanja	The magneto-mechanical effect of barium-hexaferrite nanoplatelets on cancer cells in low-frequency magnetic field	Slovenia
90	Hallali	Nicolas	Experimental setups for the low frequency rotating magnetic field approach in cancer treatment	France
91	Ito	Akira	Magnetic Force-Based Tissue Engineering of Skeletal Muscle	Japan
92	Jiajia	Sun	Simulation of the Magnetophoresis of Magnetic Nanoparticles under Cylindrical Permanent Magnet Using Coupled Particle-Fluid Model	China
93	Kaiser	Martin	Directing the transport of active particles using magnetic nanoparticles in an applied field	Austria
94	Kantorovich	Sofia	Effects of interparticle magnetic correlations on the ferrofluid dynamic response	Austria
95	Knopke	Christian	Magnetic particle labelling of breast cancer cells for immunohistochemistry	United States
96	Köçkar	Hakan	Statistical analyses on optimisation of high saturation magnetisation of iron nanoparticles synthesized from iron oxide by hydrogen reduction	Turkey
97	Lachowicz	Dorota	Biodegradable and Highly Elastic Superparamagnetic Iron Oxide Nanoparticle Composite Hydrogels	Poland
98	Liberti	Paul	Ferro-phasing and Potential Uses	United States
99	Majorosová	Jozefina	Study the stability of protein-magnetic nanoparticle composite	Slovakia
100	Maxim	Veselov	Enzymatic reaction management via Brownian relaxation of magnetic nanoparticles under low-frequency magnetic field	Russia
101	Minina	Elena	Microgels in computer simulations	Austria
102	Mochalova	Elizaveta	Study of Magnetic Particle Interaction with Eukaryotic Cells Using Imaging Flow Cytometry, Scanning Electron Microscopy and MPQ-Cytometry	Russia
103	Novak	Ekaterina	The Influence of External Fields on the Self-Assembly of Magnetic Janus Particles	Russia
104	Petrenko	Viktor	Structure of magnetoferritin solutions and its impact on amyloid aggregates	Russia
105	Prochazkova	Jitka	Magnetically modified electrospun nanotextile and its bioapplication	Czech Republic
106	Pyanzina	Elena	Self-assembly In Magnetic Filament Dispersions: Influence of Internal Parameters	Russia
107	Ramos-Docampo	Miguel	Magnetite-coated polystyrene nanospheres as a potential platform for magnetic guidance applications	Spain
108	Saha	Priyanka	Magnetic, electronic and optical properties of Zn doped Fe ₃ O ₄ nano-hollow spheres	India
109	Shelat	Ruchita	Detailed toxicity evaluation of bio-functionalized magnetic tracers with reduced signal loss using MPI	India
110	Shi	Zongqian	Investigation on the Self-assembly of Magnetic Nanoparticles under Soft-Magnet Element by Using Discrete Element Method	China
111	Shi	Zongqian	Experimental Analysis of the Magnetophoresis of Magnetic Nanoparticles under Permanent Magnet	China
112	Simchi	Abdolreza	Development of a Superparamagnetic and Luminescence Ferrite@Quantum Dot System for Cellular Imaging	Iran
113	Singh	Pinki	Development of Lumino-Magnetic Iron Oxide Nanoparticles for Multimodal Applications	India
114	Testa-Anta	Martín	Synthetically-driven enhancement of the magnetophoretic mobility of iron oxide nanocrystals	Spain
115	Zhang	Sinong	Genotyping Platform Based on GoldMag Nanoparticles for Clinical Diagnostic Application	China

Poster Session II - Thursday, May 24, 2018

Nanoparticle Synthesis				
116	Arregi	Jon Ander	Metamagnetic self-assembled FeRh nanoparticles	Czech Republic
117	Arsalani	Soudabeh	NRL-coated magnetic Fe ₃ O ₄ nanoparticle for MRI contrast enhancement	Brazil
118	Baki	Abdulkader	Development of continuous synthesis of iron oxide nanoparticles as magnetic carriers for biomedical and clinical applications	Germany
119	Balasoiu	Maria	Microstructural and magnetic properties of stable suspensions of CoxFe _{3-x} O ₄ magnetic nanoparticles for utilization in life sciences	Romania
120	Balasoiu	Maria	Structural studies of Co and Cu-doped ferrihydrite nanoparticles	Russia
121	Begin-Colin	Sylvie	Engineering of magnetic-based nanoplatfoms for theranostic	France
122	Chanhom	Padtaraporn	Metalloporphyrins-sensitized titania-silica-iron oxide nanocomposites with high photocatalytic and bactericidal activities under visible light irradiation	Thailand
123	Dutz	Silvio	Influence of sterilization and preservation procedures on the integrity of serum protein coated magnetic nanoparticles	Germany
124	Fellows	Benjamin	Extended LaMer Synthesis of Nonstoichiometric Ferrites with Enhanced Magnetic Properties for Magnetic Hyperthermia	United States
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126	Fletcher	Charlotte	Design and Synthesis of Magnetic Nanocomposites to Probe Sub-Cellular Behaviour	England
127	Garcia	David	Synthesis of ferrite nanoparticles for biomedical applications	Spain
128	Goloverda	Galina	Novel linkers for advanced magnetic materials to be used in medical theranostics	United States
129	Guzmán	Dulce	Synthesis and characterization of magnetite with a biopolymer and gold nanoparticles for cancer treatment by hyperthermia	Mexico
130	Hasirci	Caner	Properties of Superparamagnetic ZnFe ₂ O ₄ Nanoparticles Synthesized by Hydrothermal Method	Turkey
131	Hinrichs	Stephan	Synthesis and characterization of anisotropic magnetic nanoparticles for incorporation into thermoresponsive hydrogels	Germany
132	Ibarrola	Oihane	NOCANTHER Design, development, optimization and scaling of MNPs for cancer therapy	Spain
133	Insausti	Maite	Pd-Fe Nanoparticles: Correlation between Magnetic Behaviour and Structural Composition	Spain
134	Karaagac	Oznur	Properties of Superparamagnetic Cobalt Ferrite Nanoparticles	Turkey
135	Khmara	Iryna	Chitosan stabilized iron oxide nanoparticles for MRI	Slovakia
136	Komissarova	Lubov	Working out the method to obtain monodisperse small-size range magnetite nanoparticles for biomedical pur	Russia
137	Kuzhir	Pavel	SYNTHESIS AND FUNCTIONALIZATION OF ROD-LIKE IRON OXIDE NANOPARTICLES	France
138	Lima	Rodrigo	Morphological control of Hematite magnetic nano-carries using chelating agents	Denmark
139	Lucanska	Dasa	Targeting of carbonic anhydrase IX-positive cancer cells by glycine coated superparamagnetic nanoparticles	Slovakia
140	Lucht	Niklas	Magnetic Hydrogels and the Exploitation of the Silica Shell: A Novel Approach to Tune Magnetic Hydrogels	Germany
141	Mefford	Olin	Continuous process for the synthesis of magnetite (Fe ₃ O ₄) nanoparticles via thermal decomposition	United States
142	Molcan	Matus	Heating properties of poly-L-lysine modified magnetic nanoparticles	Slovakia
143	Morales	Rafael	Top-down fabrication routes of biocompatible non-isotropic nanoparticles in a magnetic vortex state	Spain
144	Nikitin	Aleksey	Development and use of iron oxide nanoclusters in biomedicine	Russia
145	Ozel	Fatmahan	Ascorbic acid and tartaric acid coated iron oxide nanoparticles obtained by hydrothermal method	Turkey
146	Perton	Francis	Hierarchical clustering involving stellate mesoporous silica, iron oxide and quantum dots towards biocompatible theranostic magneto-luminescent nanopores	France
147	Primozic	Mateja	Structural characterization of magnetic nanoparticles coated with dextran	Slovenia
148	Saha	Priyanka	Magnetorheological effect using iron-oxide nano-hollow spheres	India
149	Simeonidis	Konstantinos	MagnoTher: A Fully Inorganic Drug-loaded Magnetic Hyperthermia Agent	Greece
150	Simeonidis	Konstantinos	Upscaling the Production of Fe ₃ O ₄ Nanoparticles in a Continuous-flow Setup	Greece
151	Sokolov	Ilya	Magnetic Metal-Organic Framework Nanoparticles and Ferrihydrite Nanoagents for MRI-Contrasting and Drug Delivery	Russia
152	Tombác	Etelka	Preparation of Graphene Oxide/Magnetite Nanocomposites: Mild Electrostatic vs. Harsh Chemical Routes	Hungary
153	Tracy	Joseph	Heteroaggregation Approach for Depositing Magnetite Nanoparticles onto Silica-Overcoated Gold Nanorods	United States
154	Turcu	Rodica	Tailoring the properties of core-shell magnetic nanostructures for applications as MRI contrast agents	Romania
155	Vasic	Katja	Effects of process parameters on ADH immobilized dextran coated magnetic nanoparticles	Slovenia
156	Veintemillas-Verdague	Sabino	Effect of the sodium polyacrylate on the magnetite nanoparticles produced by oxidative precipitation	Spain
157	Vekas	Ladislau	High magnetization water-based ferrofluids: electrostatic vs. electro-steric stabilization	Romania
158	Veverka	Pavel	Rod-like particles of silica-coated magnetite: synthesis via akaganeite, characterization and biological properties	Czech Republic
159	Zavisova	Vlasta	Effect of magnetic nanoparticle coating on cell proliferation and uptake	Slovakia

Magnetic Imaging / MPI				
160	Bakenecker	Anna	Manipulation of Magnetically Coated Swimmers Inside a Magnetic Particle Imaging Scanner	Germany
161	Bleul	Regina	Microreaction technology as powerful synthesis platform (not only) for MPI tracer development	Germany
162	Brero	Francesca	Magnetic nanoparticles: investigation of the effects of coating on the ¹ H-NMR relaxation properties	Italy
163	Coene	Annelies	Magnetic nanoparticles spying on their environment in magnetorelaxometry imaging	Belgium
164	King	Aaron	Using Heparin-mimics to Produce High Performance Stabilised Negative MRI Contrast Agents	England
165	Grüttner	Cordula	Magnetic Particle Imaging for the Imaging and Treatment of Stroke	Germany
166	Kosch	Olaf	Evaluation of a separate-receive coil by magnetic particle imaging of a solid phantom	Germany
167	Kosch	Olaf	Characterizing the Magnetic Particle Imaging Performance of Magnetic nanoparticles by Magnetic Particle Spectroscopy	Germany
168	Kubicková	Lenka	Nanomagnets for MRI: Transverse relaxivity of Fe ₂ O ₃	Czech Republic
169	Liebl	Maik	Speeding up magnetorelaxometry imaging of magnetic nanoparticle distributions using advanced excitation schemes	Germany
170	Lin	Yen-Ling	Effect of PEGylated Coating of Magnetic Nanoparticles on Renal Perfusion: Evaluation Using 7T DSC-MRI in Rats	Taiwan
171	Lüdtke-Buzug	Kerstin	Hypotonic Swelling: A Method of Encapsulating Fluorescence-Labeled SPIONs into Red Blood Cells for Magnetic Particle Imaging	Germany
172	Mandal	Kalyan	Surface modified fluorescent transition metal oxide nanostructures for biomedical applications	India
173	Mues	Benedikt	MRI Investigation of Magnetic Hybridmaterials for Implant Engineering	Germany
174	Ota	Satoshi	Effects of size and anisotropy of magnetic nanoparticles associated with dynamics of easy axis for magnetic particle imaging	Japan
175	Paysen	Hendrik	Complementary magnetic particle imaging and magnetic resonance imaging: Finding the right magnetic nanoparticle concentration range	Germany
176	Polikarpov	Mikhail	Study of an Anisotropy of Magnetic Noise, Generated by Magnetic Particles in Geomagnetic Field	Russia
177	Oberdick	Samuel	Microfabricated Magnetic Gel Composites as pH Sensitive Contrast Agents	United States
178	Thanh	Nguyen	Assessing cell-nanoparticle interactions by high content imaging of biocompatible iron oxide nanoparticles as potential contrast agents for MRI	England
179	Unterweger	Harald	Highly biocompatible dextran-coated superparamagnetic iron oxide nanoparticles for magnetic resonance imaging	Germany
180	Wells	James	Magnetic nanoparticles in a gelatin matrix: A model system to study temperature dependent particle-matrix interactions in MPI	Germany
181	Wells	James	Temperature effects in quantitative magnetic particle imaging of ferucarbotran nanoparticles	Germany
182	Wöckel	Lucas	Long-term stable measurement phantoms for multimodal imaging of magnetic nanoparticles	Germany
183	Zhong	Jing	Excitation frequency dependence of temperature resolution in magnetic nanoparticle temperature imaging with a scanning magnetic particle spectrometer	Germany

Magnetic Separation				
184	Achtsnicht	Stefan	Measurement of the magnetic movability of different superparamagnetic particles	Germany
185	Emadi	Asghar	Phosphate modified magnetite nanoparticles for extraction and preconcentration of Zirconium in solution	Iran
186	Hanley	Thomas	Design and Simulation of a Circulating Tumor Cell Detector	United States
187	Hirota	Noriyuki	In-situ orthogonal observation of particles deposition process on a ferromagnetic filter during high-gradient magnetic separation process	Japan
188	Injumba	Wishulada	Synthesis of peroxy-functionalized magnetic mesoporous silica as recyclable oxidizing agents for epoxidation of alkenes	Thailand
189	Kim	James	Label-less separation of the magnetic biological entities through combination of numerical analysis and magnetic separator systems.	United States
190	Kuznetsov	Andrey	Equilibrium magnetization and magnetophoretic mobility of a spherical cluster of single-domain nanoparticles	Russia
191	Moore	Lee	Continuous magnetic depletion of erythrocytes from whole blood with a quadrupole magnet and annular flow channel	United States
192	Pividori	María Isabel	Interferon gamma transcript detection on T cells by combining three types of magnetic separation	Spain
193	Pividori	María Isabel	Electrochemical biosensing of cancer exosomes in human serum based on magnetic separation	Spain
194	Pividori	María Isabel	Magneto-actuated rapid test for the detection of circulating tumor cells	Spain
195	Salgueiriño	Veronica	Synthetically-driven Assessment of Magnetic Properties of Nanocrystals and Nanostructures for Magnetic Separation Applications	Spain
196	Samanta	Abhishek	Hydrodynamic Effect on Transport and Capture of Bio-entities in a Magnetic Aqueous Two Phase System (ATPS)	India
197	Steinhoff	Uwe	A standardised description of magnetic beads for DNA extraction	Germany
198	Wei	Xue	Single cell magnetometry by magnetophoresis vs. bulk suspension magnetometry by SQUID-MPMS	United States
199	Yang	Liangrong	High Efficient Magnetic Solid Extraction for Heavy Metal Ions Removal	China

Biological Applications				
200	Antosova	Andrea	Tryptophan Functionalized Magnetic Nanoparticles inhibit Lysozyme Amyloid Fibrillation	Slovakia
201	Bednarikova	Zuzana	Dextran-coated nanoparticles as an inhibitor of lysozyme amyloid aggregation	Slovakia
202	Belousov	Andrey	Discovery of New Antibacterial Mechanisms of Influence of Magnetite Nanoparticles (MCS-B)	Russia
203	Bogart	Lara	On the structure-driven functional properties of single-core and multicore magnetic nanoparticles	England
204	Cicha	Iwona	Magnetic targeting of SPIONs under arterial flow conditions: Ex vivo and in vivo feasibility	Germany
205	Demut	Johanna	Nanoparticle-cell interaction; Surface chemistry triggers inflammation response	Germany
206	Dias	Andre	Micro-patterning of hard magnetic films for MEMS	France
207	Frénéa-Robin	Marie	A new approach to isolate bacteria based on Magnetic In-Situ Hybridization and Hybridization Chain Reaction	France
208	Galisova	Andrea	Influence of magnetic nanoparticle coating on cell viability and uptake	Czech Republic
209	Gigoux	Véronique	Combined treatments of magnetic intra-lysosomal hyperthermia with Doxorubicin promotes synergistic anti-tumoral activity	France
210	Goiriena-Goikoetxea	Maite	Magnetic vortex nanodiscs for intracellular cancer cell disruption	United States
211	Gomes	Manuela	Magnetic particles as tools for the development of remotely actuated tissue engineered constructs for tendon tissue regeneration	Portugal
212	Horák	Daniel	Antioxidant Polymer-Modified Fe ₂ O ₃ Nanoparticles for ROS Scavenging	Czech Republic
213	Jankovic	Drina	Labeling of phosphates-coated MNPs with yttrium-90: a potential tumour treatment radiopharmaceuticals	Serbia
214	Kappen	Marie	Probing Magnetogenetic Activation of hRas with MagICs Nanoparticles Inside Living Cells	Germany
215	Klein	Stefanie	NOBF ₄ coated Au-Fe ₃ O ₄ -Nanoparticles in radiation therapy: The benefit of combined generation of ROS and RNS	Germany
216	Konopacka	Anna	The effect of the rotating magnetic field on bioethanol production by yeast strain immobilized on ferromagnetic nanoparticles	Poland
217	Labusca	Luminita	Antitumor drug-functionalized magnetic nanoparticles internalized by human adipose derived stem cells for in vitro tumour tissue-like structures targeting	Romania
218	Lee	Gil	Bio-Nano-Magnetic Materials for Localized Mechanochemical Stimulation of Cell Growth and Death	Ireland
219	Liberti	Paul	External-Gradient Ferrofluid-Enabled Clinical-Scale Cell Separator	United States
220	Lu	Yi-Ching	Gallate-Induced Nanoparticle Uptake by Tumor Cells: Structure-Activity Relationship	Taiwan
221	Makis	Angelakeris	Action of low-frequency magnetic field modes on magnetic nanoparticle environments	Greece
222	Martín Gracia	Beatriz	Development of magnetic nanoimmunoconjugates for the fast and efficient isolation of tumoral exosomes	Spain
223	Morel	Robert	Design of Magnetic Nanoparticles for Magneto-mechanical Cancer Cells Destruction	France
224	Moreno-Antolín	Eduardo	Oriented functionalization of magnetic nanoparticles with cadherins	Spain
225	Moros	Maria	Effect of Surface Chemistry and Associated Protein Corona on the Long-Term Biodegradation of Iron Oxide Nanoparticles In Vivo	Spain
226	Mühlberger	Marina	Functionalisation of T lymphocytes for magnetically controlled immune therapy	Germany
227	Müller	Elena	Differential modes of interaction and passage of magnetic nanoparticles through an in vitro blood-placenta model	Germany
228	Paciotti	Giulio	Precision MRX [®] : A Versatile Iron Oxide Nanoparticle Platform for the Clinical Diagnosis and Treatment of Cancer	United States
229	Quini	Caio	Development of a protocol to assess cell internalization and tissue uptake of nanoparticles	Brazil
230	Rahn	Helene	Development of a uniform phantom for quantification of magnetic nanocomposites in biological tissue for a cross-calibration of X-ray and MRI	Germany
231	Rodponthukwaji	Kamonlatth	Facile Synthesis of Magnetic-Silica-Mannan Nanocomposites for Enhancement in Internalization and Immune Response by Dendritic Cells	Thailand
232	Saengruengrit	Chalathan	Synthesis of PDMAEMA-Iron Oxide Nanocubes for Plasmid Gene Delivery into Dendritic Cells	Thailand
233	Shevtsov	Maxim	Glioma-specific targeting of SPIOS conjugated with cmHsp70.1 monoclonal antibodies (SPION-cmHsp70.1) is improved by ionizing radiation	Russia
234	Spyridopoulou	Katerina	Magnetic manipulation of implanted cancer cells for the optimization of the standard syngeneic mouse tumor model	Greece
235	Stanton	Rhiannon	Reducing non-specific binding on magnetic beads	England
236	Steele	Lindsay	Magnetically-Actuated Alginate Scaffolds: Effects on Macrophage Cytokine Secretion	United States

237	Takashi	Yoshida	Effect of Viscosity on AC Magnetization of Magnetic Nanoparticles for different AC Excitation Field	Japan
238	Tomanek	Boguslaw	Molecular Magnetic Resonance Imaging of Cancer using Double Action Core/Shell Nanoparticles	Canada
239	Tzirini	Maria	Numerical Investigation of Magnetic Nanoparticles Clearance from Blood Circulation Using Extracorporeal Magnets	Greece
240	van de Loosdrecht	Melissa	Differential Magnetometry to detect sentinel lymph nodes in laparoscopic procedures: static results	Netherlands
241	van de Loosdrecht	Melissa	Characterization of superparamagnetic iron oxide nanoparticles in biological environments	Netherlands
242	Vranjes-Djuric	Sanja	In vivo studies of phosphonate-coated magnetic nanoparticles labeled with technetium-99m	Serbia
243	Wang	Jian-Ping	Measuring Saturation Magnetizations of Superparamagnetic Nanoparticles from Liquid Phase	United States
244	Yun	Kyusik	Surface Functionalized Magnetic Nanoparticles Shift Cell Behavior with On/Off Magnetic Fields	Korea
245	Yurenja	Anton	Synthesis and Mossbauer study of the stability of 57Fe3O4 nanopropes in living cells for probing the viscoelasticity of cytoplasm with nanosecond time resolution	Russia
246	Zablotskii	Vitalii	Enhancement of Cytosolic Ca2+ Levels and Induction of Actin Polymerization in Skeletal Muscle Cells by Spatiotemporal Magnetic Fields	Czech Republic
247	Zelepukin	Ivan	Influence of various properties of magnetic particles on their pharmacokinetic profile	Russia
248	Zhejia	Gu	Solid Phase Multiplex PCR Based on Encoded Magnetic microbeads	China

Biosensors

249	Hansen	Mikkel	Optomagnetic sensing and biosensing	Denmark
250	Johansson	Christer	Development of a sensitive induction based magnetic nanoparticle biodetection method	Sweden
251	Minero	Gabriel Antonio	Strategies for on-chip DNA processing on magnetic microbeads	Denmark
252	Nikitin	Petr	Ultrasensitive In Vitro Diagnostics Platform Based on High-Affinity Magnetic Nanopropes for Simultaneous Detection of Multiple Biomarkers	Russia
253	Orlov	Alexey	Magnetic nanoparticles for detection of small molecules: synergetic combination of quantitative volumetric registration with interferometric optimization of immunoassays	Russia
254	Pividori	María Isabel	Rapid Diagnostic Test for Celiac Disease based on Deamidated Magnetic Peptide as a novel biomarker	Spain
255	Sepehri	Sobhan	Stability of biofunctional magnetic nanoparticles in a microfluidic chip for sensitive detection of DNA/RNA viruses	Sweden
256	Shevchenko	Konstantin	Development of self-assembling system based on magnetic and gold nanoparticles for in situ monitoring of biomolecules	Russia