



Poster Sessions | Tuesday, May 26 - No. 1 - 53 | Wednesday, May 27 - No. 54 - 107

	First Author	Title	City, Country	Corresponding Author
1	Agaesse, Angela	Magnetic Hyperthermia and Mechanical Ablation Induce an Anti-Tumor Immune Response in Pancreatic Ductal Adenocarcinoma	Toulouse, France	Agaesse, Angela
2	Altuna Ruiz de Eguino, Amaia	Magnetic Bead Redispersion: The Often Overlooked Control That Shapes Automated Chemiluminescent Assay Outcomes	Church Stretton, UK	Altuna Ruiz de Eguino, Amaia
3	Antal, Iryna	Amino Acid-Functionalized Magnetic Nanoparticles with Enhanced Colloidal and Relaxivity Properties for MRI Applications	Kosice, Slovakia	Antal, Iryna
4	Arik, Feyzanur	Positively charged Gold-Iron Oxide Nanoparticles for Immune Therapy	Tübingen, Germany	Arik, Feyzanur
5	Armenia, Ilaria	Magnetic-Chitosan Nanocarriers for CRISPR/Cas9 Delivery in Hermetia illucens	Varese, Italy	Armenia, Ilaria
6	Bär, Sebastien	MPI guided soft magnetic fluid hyperthermia using antibody-conjugated MNPs allows Blood-Brain Barrier opening in the rat	Freiburg im Breisgau, Germany	Bär, Sebastien
7	Barutiak, Michael	UV-C Activated APTES Functionalization of Fe ₃ O ₄ Magnetic Nanoparticles for RNA Separation	Kosice, Slovakia	Barutiak, Michael
8	Bikulov, Timur	Decoupling interaction and viscous effects in nonlinear responses through direct partition function evaluation	Jülich, Germany	Bikulov, Timur
9	Boelens, Peter	Characterization of citric acid coated magnetic nanoparticles attachment to Y2O ₃ :Eu for recycling applications	Dresden, Germany	Boelens, Peter
10	Boulant, Lou	Fibrin matrices dissolution enhanced by self-assembling magnetic colloid's actuation	Nice, France	Boulant, Lou
11	Buhne, Maria-Josephina	Continuous Coagulation Monitoring of Human Blood via Magnetic Particle Spectroscopy	Lübeck, Germany	Aderhold, Eric
12	Cam, Necda	Tuning field amplitude to minimise heat-loss variability in magnetic hyperthermia	Santiago de Compostela, Spain	Cam, Necda
13	Caoure, Elisa	Innovative detection of biological targets using a magnetic sensor-based biochip prototype for future early diagnosis	Saclay, France	Caoure, Elisa
14	Casas, Enric	Design of Anisotropic Magneto-Opto-Mechanical Nanocapsules for Cancer Treatment	Bellaterra, Spain	Casas, Enric
15	Chen, Dongyu	Intelligent Multiparametric QCM Detection of Magnetically Labeled Molecules	Beijing, China	Chen, Dongyu
16	Chwiej, Joanna	Spectroscopic study of cellular uptake, metabolism and systemic effects of ⁵⁷ Fe-labeled iron oxide nanoparticles	Krakow, Poland	Chwiej, Joanna
17	Ciuraszkiewicz, Agnieszka	Starch Makes The Difference: Surface-Engineered Magnetite Nanoparticles For Improved Magnetite Hyperthermia Effect	Gliwice, Poland	Ciuraszkiewicz, Agnieszka
18	Dibdiakova, Katarina	Cytotoxicity and MRI Relaxometry of Iron Oxide Nanoflowers in Neuronal Cells	Martin, Slovakia	Dibdiakova, Katarina
19	Drab, Jiri	SPIO nanoparticles as promising drug carriers for neurodegenerative disease treatment	Olomouc, Czech Republic	Drab, Jiri
20	Dupuis, Vincent	Investigation of dynamic hysteresis in Hard-Soft binary ferrofluids: dimers and short chains	Paris, France	Dupuis, Vincent
21	Ehsandoost, Afsaneh	Stiffness-Dependent Magnetic Responses in MNP-Loaded 3D-Printed Hydrogels	Darmstadt, Germany	Ehsandoost, Afsaneh
22	Engelmann, Ulrich	In-silico Investigation of Interacting Magnetic Nanoparticle Response in Physiological Environments Using Single- and Dual Frequency MPS	Jülich, Germany	Engelmann, Ulrich
23	Exposito, Laurie	Encapsulation of a poorly water-soluble anti-cancer drug in ultra-magnetic liposomes for its controlled and locoregional release	Paris, France	Menager, Christine
24	Fabriciova, Zaneta	Shape-Dependent Magnetic Properties of CoFe ₂ O ₄ Nanoparticles for MRI Applications	Kosice, Slovakia	Fabriciova, Zaneta
25	Failde, Daniel	Optimizing Magnetic Hyperthermia Performance under Safety Limits	Barcelona, Spain	Iglesias, Oscar
26	Feoktystov, Artem	Insights into internal magnetic structure of iron oxide nanoparticles: a combined small-angle neutron scattering and magnetometry study	Garching, Germany	Feoktystov, Artem
27	Gallo-Cordova, Alvaro	Magnetic hyperthermia in focus: emerging non-cancer applications of magnetic nanoparticles	Madrid, Spain	Gutierrez, Lucia
28	Gandarias, Lucia	Engineering HER2-targeted magnetosomes displaying immunotherapeutic proteins to enhance radiotherapy efficacy in solid tumors	Saint Paul lez Durance, France	Preveral, Sandra
29	Giang, Trang Ngan	Photothermal and phototherapeutic effects induced by gold/iron oxide nanoparticles to facilitate the penetration of anticancer agents	Ecully, France	Giang, Trang Ngan
30	Gigoux, Veronique	Magnetic field-responsive bioMOF drug delivery nanocomposite based on Bi(III)-ellagate SU-101	Toulouse, France	Gigoux, Veronique
31	Grossrieder, Tim	Low Frequency Inductive Sensing of Magnetic Microrobots	Zürich, Switzerland	Christiansen, Michael

32	Guo, Dongdong	Magnetic Nanoflower-Mediated Hyperthermia Activates Concurrent Apoptosis and Ferroptosis on Prostate PC3 and Melanoma DX3 cells	London, UK	Thanh, Nguyen
33	Habermann, Sebastian	Hydrogel-Based MPS-Sensor for the Visualization of Microenvironmental Changes and Identification of Pathological Conditions	Zürich, Switzerland	Herrmann, Inge
34	Hadadian, Yaser	UV-Vis spectroscopy of turbid dispersions containing magnetic nanoparticles and drugs	Berlin, Germany	Hadadian, Yaser
35	Hanson, Lise	Revealing the temperature inside induction-heated magnetic nanoparticles and their surroundings - hotspots defied	Kgs. Lyngby, Denmark	Hanson, Lise
36	Haq, Siraj	Monte Carlo-Based Cone Angle Approach for Torque Analysis in Hybrid BD-KMC Simulations of Magnetic Nanoparticles	Santiago de Compostela, Spain	Haq, Siraj UL
37	Herrera Aquino, Rafael	Sustainable Valorization of PET Nanoplastics: Integrated Magnetic Harvesting and Upcycling via Mesocrystalline Iron Oxide Nanoflowers	Madrid, Spain	Herrera Aquino, Rafael
38	Hrubovcak, Pavol	Interactions of silica-coated magnetic nanocarriers with cell membranes	Kosice, Slovakia	Hrubovcak, Pavol
39	Hu, Xinkai	Magnetic Hyperthermia for Chemo-Thermal Therapy via Intracellular GSH-Responsive Prodrug Release	London, UK	Thanh, Nguyen
40	Imhoff, Eric	A High-Throughput Thermal Decomposition Synthesis Platform for Optimizing Magnetic Nanoparticles	Gainesville, FL, USA	Rinaldi-Ramos, Carlos
41	Jaiswar, Ankur	Hybrid Magnetic Nano/Micro-swimmers with Integrated Theranostics for Targeted Biomedical Applications	Bangalore, India	Jaiswar, Ankur
42	Jedinak, Valentin	BSA-Coated Magnetic Nanoparticles for Betulinic Acid Delivery and Hyperthermia	Kosice, Slovakia	Jedinak, Valentin
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44	Jones, Iestyn	High Magnetisation Magnetite Particles for Biomedical Applications	Bangor, UK	Jones, Iestyn
45	Khmara, Iryna	Poly-L-Lysine Functionalized Iron Oxide Nanoparticles: Single-Core vs Nanoflower Structures for potential MRI, Hyperthermia, and theranostic applications	Kosice, Slovakia	Khmara, Iryna
46	Kianpour, Mehrnoosh	Drug-Coated Magnetic Microrobots as a Targeted Drug Delivery Platform for Cancer Drug Studies	Colchester, UK	Kafash Hoshiar, Ali
47	Klein, Stefanie	Magneto-Plasmonic Nanoparticles for X-ray triggered cancer therapy	Tübingen, Germany	Klein, Stefanie
48	Kluwe, Bruno	Setup for dynamic control of magnetic particle concentration enabling versatile measurement applications	Berlin, Germany	Kluwe, Bruno
49	Kosch, Olaf	Determination of unique pure system functions for Color- Magnetic Particle Imaging of cellular states	Berlin, Germany	Kosch, Olaf
50	Kralj, Slavko	Magneto-Mechanical Remodelling of Bacterial Biofilms Using Bimodal Chemo-Mechanical Nano- Microrobots	Ljubljana, Slovenia	Kralj, Slavko
51	Kubovcikova, Martina	Development of Amino-Functionalized Magnetic Nanoparticles for Theranostic Applications	Kosice, Slovakia	Kubovcikova, Martina
52	Kurokawa, Ryosuke	Blood Coagulation Testing using Magnetic Nanoparticles Measured by HTS-SQUID System	Okayama, Japan	Kurokawa, Ryosuke
53	Lafuente, Aritz	Opto-Magnetically Guided Monocytes for Enhanced Nanotherapy in 3D Bioprinted Tumor Models	Barcelona, Spain	Lafuente, Aritz
54	Löffler, Marcus	3D-printed anatomic and geometric phantoms for platform-independent Magnetic Particle Imaging	Zwickau, Germany	Löffler, Marcus
55	Lünne, Kai	Towards a scaled-up, integrated system for Magnetic Particle Imaging and localized Hyperthermia for theranostic applications	Braunschweig, Germany	Lünne, Kai
56	Lyu, Weiming	Synthesis of cobalt ferrite magnetic seed nanoparticles for magnetoelectric system	London, UK	Nguyen, Thanh
57	Ma, Yunn-Hwa	Tannic Acid-Coating Augments Nanoparticle Uptake by Laminin Receptor-Mediated Endocytosis: Implication in Tumor Targeting	Tao-Yuan, Taiwan	Ma, Yunn-Hwa
58	Maisuradze, Anano	Flame-made Superparamagnetic Iron Oxide Nanoparticles for Non-invasive Diagnosis of Inflammatory Bowel Disease	Uppsala, Sweden	Maisuradze, Anano
59	Marsalin, Akash	Structural Engineering of Fe ₃ O ₄ Mesocrystals for Enhanced Magneto-Optical Cancer Therapy	Chennai, India	Mani, Rajaboopathi
60	Matskevich, Natall	AI/ML-driven in vitro Platform for Quantification of Nanoparticle Transport Efficiency Across Biological Barriers	Prague, Czech Republic	Matskevich, Natall
61	Matsuki, Kenjiro	Improved Thermal Management for Stable Continuous Measurement in Magnetic Particle Spectroscopy	Hyogo, Japan	Matsuki, Kenjiro
62	Mefford, Thompson	Influence of interparticle spacing on AC magnetic losses in magnetic nanoparticle assemblies	Clemson, SC, USA	Mefford, Thompson
63	Molcan, Matus	Disruption of Amyloid Fibrils by Nanoparticles: Effect of Pulsed and Rotating Magnetic Fields	Kosice, Slovakia	Molcan, Matus
64	Nagy, Lubos	Biomolecule-functionalized CoFe ₂ O ₄ nanoparticles: Balancing high heating efficiency with improved cellular safety	Kosice, Slovakia	Nagy, Lubos
65	Nahar, Tasmin	Development of magnetic force biotechnology for neural regeneration	Keele, UK	Nahar, Tasmin
66	Nistor, Mirela	Development of Theranostic Magneto-Microemulsion Platforms Based on Mn-Doped Magnetite Nanoparticles for Doxorubicin Delivery	Iasi, Romania	Dragoi, Brindusa
67	Novak, Ekaterina	Effects of Mixing Hard and Soft Magnetic Nanoflowers: Theory and Simulations	Ekaterinburg, Russia	Novak, Ekaterina
68	Nozka, Aniela	Development and validation of magnetic particle imaging-guided modeling and comparison with magnetic fluid hyperthermia in 3D printed mouse phantoms	Gainesville, FL, USA	Rinaldi-Ramos, Carlos
69	Nucci, Giulia	Repurposing mild magnetic hyperthermia for rapid intracellular labelling of immune cells for tracking applications	Genova, Italy	Nucci, Giulia Eugenia Paola
70	Ozkahraman, Bengi	pH-Responsive Magnetic Iron Oxide Nanogels of Seed-Nanoflower-Chitosan for Cancer treatment	Corum, Turkey	Ozkahraman, Bengi

71	Palacios-Alonso, Pablo	Predictive Magneto-Hydrodynamic Simulations of Ferrofluids for Biomedical Applications	Madrid, Spain	Palacios-Alonso, Pablo
72	Pansegrau, Kerstin	Towards Magnetorelaxometry-Based Real-Time Remote Magnetic Nanoparticle Thermometry for Thermotherapy Applications	Hall in Tirol, Austria	Pansegrau, Kerstin
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74	Payan, Sandy	Chemical coupling of biological magnetosomes with amine-functionalized antibody conjugates to improve immuno-associated cancer therapy	Saint-Paul-Lez-Durance, France	Sandra, Preveral
75	Pei, Peggy	Complex-Weighted Differential Harmonic Extraction in Magnetoresistance Sensor-Based Magnetic Particle Spectroscopy	Kiel, Germany	Pei, Peggy
76	Phan, Minh Duy	Design, fabrication, characterization and modeling of additive manufactured devices using novel magnetic nanoinks for label-free magnetic cell fractionation	Lubbock, TX, USA	Gomez-Pastora, Jenifer
77	Pillarova, Paula	Design of Amino-Modified PLA Nanospheres as a Promising Platform for Nitric Oxide Delivery	Kosice, Slovakia	Pillarova, Paula
78	Pinto Ahmad, Sara	In Vivo Magnetorelaxometry of Iron Oxide Nanoparticles: Temporal Evolution of Relaxation Behaviour Following Injection	London, UK	Pinto Ahmad, Sara
79	Ployart, O	Magnetic hyperthermia at the nanoscale	Paris, France	Fresnais, Jerome
80	Porru, Margherita	Magnetic Nanoflowers as MRI Contrast Agents: Shape, Coating and Size Effect on ¹ H-NMR Properties	Pavia, Italy	Porru, Margherita
81	Radon, Patricia	Framework for Assessing the Distinguishability of Magnetic Nanoparticles used in Color Magnetic Particle Imaging	Berlin, Germany	Radon, Patricia
82	Reichl, Teresa	Magnetic Nanoparticles as Sensor for Brain Perfusion	Würzburg, Germany	Vogel, Patrick
83	Rodriguez Garcia, Miguel Ramon	Empirical evaluation of non-harmonic asymmetric waveforms magnetic hyperthermia with magnetic nanoparticles	Pozuelo de Alarcon, Spain	Rodriguez Garcia, Miguel Ramon
84	Rodriguez Garcia, Miguel Ramon	Magnetic hyperthermia treatment using pulsed-shaped waveforms in glioblastoma multiforme cell line using nanoflowers-shaped nanoparticles: migration and immunogenic tests	Pozuelo de Alarcon, Spain	Rodriguez Garcia, Miguel Ramon
85	Rossa, Lea	Urease-Powered Nanorobots Enhance Tumor Penetration and Hyperthermia Efficiency in 3D Cancer Cell Spheroids	Darmstadt, Germany	Rossa, Lea
86	Sagastuy, Marine	Fusion of Magnetic Liposomes with Model and Plasma Membranes: Towards Cytoplasmic Delivery	Paris, France	Menager, Christine
87	Schoenen, Max	A Theranostic Implant Concept for Advancing Magnetic Hyperthermia and Magnetic Particle Imaging Towards Clinical Use	Hamburg, Germany	Slabu, Ioana
88	Seino, Satoshi	Micro Powder Drying of Magnetic Nanoparticle Dispersions: Toward Re-dispersible Powder Formulations	Osaka, Japan	Seino, Satoshi
89	Simsek, Ece	ULF-Mag: A Compact Ultra-Low Frequency Electromagnetic Device for Magnetic Microsphere Applications in Cell Culture	Antalya, Turkey	Simsek, Ece
90	Siska, Zuzana	Microtron Electron-Beam Defect Engineering of Ultrasmall Ceria Nanoparticles for Tuning Optical and Magnetic Properties	Brno, Czech Republic	Sojkova, Tereza
91	Sojka, Martin	Transition-Metal-Doped Iron Oxide Nanoparticles: Synthesis, Phase Composition, and Structure Evolution	Brno, Czech Republic	Sojka, Martin
92	Strbak, Oliver	CODERAM: Coating-dependent Relaxation Model for Prediction of MRI Relaxivities of Iron Oxide Nanoparticles with Different Coatings	Martin, Slovakia	Strbak, Oliver
93	Suarez-Lopez, Yael del Carmen	Multi-Parameter MRI Mapping for Identifying SPION in Gastrointestinal Tissue Models	Uppsala, Sweden	Suarez-Lopez, Yael del Carmen
94	Toffanello, Francesca	Synthesis and Characterization of Co-doped Iron Oxide Nanoparticles for Torque-based Actuation	Zürich, Switzerland	Christiansen, Michael
95	Totter, Elena	BacBots: Engineering bacteria-based biohybrid microrobots for torque-driven actuation	Zürich, Switzerland	Schuerle, Simone
96	Tran, Nguyen Thuy Linh	Magnetic Phenotyping of Red Blood Cells and Monocytes to Assess the Pain Severity and Risk of Vaso-Occlusive Crises in Sickle Cell Disease	Lubbock, TX, USA	Gomez Pastora, Jenifer
97	Ullah, Faiz	Mussel-Inspired Janus Films Incorporating Polydopamine-Coated Magnetite Nanoparticles for Skin Cancer Therapy and Tissue Regeneration	Barcelona, Spain	Suarez Garcia, Salvio
98	Valdes, Daniela	Segmentation Strategies for Quantitative Biodistribution in Magnetic Particle Imaging	Gainesville, FL, USA	Valdes, Daniela
99	Venegas-Gomez, Alejandro	Probing protein and drug interactions by nanoparticle dynamical magnetization phenomena	Madrid, Spain	Teran, Francisco
100	Wang, Xuyiling	Characterising exogenous and endogenous magnetic nanomaterials in biological samples using a magneto-optical multifunctional microscope	Stoke-on-Trent, UK	Wang, Xuyiling
101	Washino, Masaomi	Harmonic Magnetic Response of Iron Oxide Nanoparticle Powders: Influence of Interparticle Dipolar Interactions	Hyogo, Japan	Washino, Masaomi
102	Weber, Paula	Synthesis by Physics: Development of Superparamagnetic Thin Films Containing Nanoparticles via Magnetron Sputtering	Darmstadt, Germany	Bakenecker, Anna
103	Weidner, Andreas	Preparation of a binder-free electrode to assess magnetic nanocatalysts in a study of novel Cu _x O _y -IONP-clusters for electrochemical nitrate reduction	Ilmenau, Germany	Weidner, Andreas
104	Weisspflug, Maria	Synthesis of Cobalt-Doped Ferrite Nanoparticles by Green Hydrothermal Synthesis: From Shape Anisotropic Particles to Chain-like Structures	Hamburg, Germany	Hankiewicz, Birgit
105	Wenck, Christina	Development of a continuous flow micromixer synthesis of hydrophobic MNPs for encapsulation in lipid nanoparticles for theranostic applications	Mainz, Germany	Wenck, Christina
106	Zara-Danceanu, Camelia-Mihaela	pH-Modulated Adsorption and Desorption of BSA onto Mn/Zn/Co-Fe ₃ O ₄ Magnetic Nanocarriers for Biomedical Applications	Iasi, Romania	Dragoi, Brindusa
107	Zuo, Can	Real-Time Prediction of Coupled Physical Parameters in Magnetic Particle Systems for Drug Delivery Monitoring	Shanghai, China	Wen, Yumei