

LIST OF PUBLICATION

Original Papers (peer-reviewed):

- **Simkó M** and Mattsson MO.: Risks from accidental exposures to engineered nanoparticles and neurological health effects: a critical review. [Part. Fibre. Toxicol. 7, 42 \(2010\)](#)
- Mannerling AC, **Simkó M**, Mild KH, Mattsson MO: Effects of 50 Hz magnetic field exposure on superoxide radical anion formation and HSP70 induction in human K562 cells. [Radiat Environ Biophys. 2010 Nov;49\(4\):731-41.](#)
- Frahm J, Mattsson MO, **Simkó M**. Exposure to ELF magnetic fields modulate redox related protein expression in mouse macrophages. [Toxicol Lett. 192 \(2010\) 330–336](#)
- Mild KH, Wilén J, Mattsson MO, **Simkó M**: Background magnetic fields in incubators: A factor of importance in cell culture work. [Cell Biol. Int. 33, 755-7 \(2009\)](#)
- Scientific Committee on Emerging and Newly Identified Health Risks (SCENIHR), Health Effects of Exposure to EMF, [ec.europa.eu/health/ \(2009\)](#)
- Ahlbom A, Bridges J, de Seze R, Hillert L, Juutilainen J, Mattsson MO, Neubauer G, Schüz J, **Simkó M**, Bromen K.: Possible effects of electromagnetic fields (EMF) on human health-opinion of the scientific committee on emerging and newly identified health risks (SCENIHR), [Toxicology. 18, 246 \(2-3\), 248-50 \(2008\)](#)
- Scientific Committee on Emerging and Newly Identified Health Risks (SCENIHR), Possible effects of Electromagnetic Fields (EMF) on Human Health, [ec.europa.eu/health/ \(2007\)](#)
- **Simkó M**: Cell type specific redox status is responsible for diverse electromagnetic field effects, [Curr. Med. Chem. 14, 1141-1152, \(2007\)](#)
- Frahm J, Lantow M, Lupke M, Weiss DG and **Simkó M**: Alteration in cellular functions in mouse macrophages after exposure to 50 Hz magnetic fields [J. Cell. Biochem. 99, 168-77 \(2006\)](#)
- Lantow M, Lupke M, Frahm J, Mattsson MO, Kuster N, and **Simkó M**: ROS release and Hsp70 expression after exposure to 1800 MHz radiofrequency electromagnetic fields in primary human monocytes and lymphocytes [Radiat. Environ. Biophys. 45, 55-62 \(2006\)](#)
- Lantow M, Viergutz T and **Simkó M**: Cell cycle analysis and apoptosis induction after exposure to radiofrequency radiation in human Mono Mac 6 cells, [Radiat Res. 166, 539-43 \(2006\)](#)
- Lupke M, Frahm J, Lantow M, Maercker C, Remondini D, Bersani F and **Simkó M**: Gene expression analysis of ELF-MF exposed human monocytes indicating the involvement of the alternative activation pathway, [Biochim. Biophys. Acta. 1763, 4, 402-412 \(2006\)](#)
- Lantow M, Schuderer J, Hartwig C and **Simkó M**: Free radical release and Hsp70 expression in two human immune relevant cell lines after exposure to 1800 MHz radiofrequency radiation [Radiat. Res. 165, 88-94 \(2006\)](#)
- **Simkó M**, Hartwig C, Lantow M, Lupke M, Mattsson MO, Rahman Q and Rollwitz J: Hsp70 expression and free radical release after exposure to non-thermal radio-frequency electromagnetic fields and ultrafine particles in human Mono Mac 6 cells, [Toxicol. Lett. 161, 73-82 \(2006\)](#)
- Lohrke B, Viergutz T, Kanitz W, Losand B, Weiss DG, **Simkó M**: Hydroperoxides in circulating lipids from dairy cows: Implications for bioactivity of endogenous-oxidized lipids, [J. Dairy Science. 88, 1708-1710 \(2005\)](#)
- **Simkó M**: Induction of cell activation processes by low frequency electromagnetic fields. [The Scientific World 4, 4–22, \(2004\)](#)

- **Simkó M.** and Mattsson MO: Extremely low frequency electromagnetic fields as effectors of cellular responses in vitro: possible immune cell activation. [J Cell Biochem. 1;93\(1\):83-92 \(2004\)](#)
- Kriehuber R, Riedling M, Simko M, Weiss DG.:Cytotoxicity, genotoxicity and intracellular distribution of the Auger electron emitter (65)Zn in two human cell lines.[Radiat Environ Biophys. 43\(1\):15-22. \(2004\)](#)
- Lange S., D. Richard T. Viergutz R. Kriehuber and M. Simkó: Alterations in the cell cycle and in the protein level of cyclin D1, p21CIP1, and p16INK4a after exposure to 50 Hz MF in human cells. [Radiat. Environ. Biophys. 41, 131-137 \(2002\)](#)
- Richard D, Lange S., Viergutz T., Kriehuber R., Weiss D.G., **Simkó M.**: Influence of 50 Hz magnetic fields in combination with a tumour promoting phorbol ester on protein kinase C and cell cycle in human cells. [Mol. Cell. Biochem. 232, 133-141 \(2002\)](#)
- **Simkó M.**, Droste S., Kriehuber R. and Weiss D.G.: Stimulation of phagocytosis and free radical production in murine macrophages by 50 Hz electromagnetic fields. [Eur. J. Cell Biol. 80, 562-566 \(2001a\)](#)
- **Simkó M.**, D. Richard, R. Kriehuber and Dieter G. Weiss: Micronucleus induction in SHE cells following exposure to 50 Hz magnetic fields, Benzo(a)pyrene and TPA in vitro. [Mutat. Res. 495, 43-50 \(2001b\)](#)
- Kriehuber R and **Simkó M.**: Apoptosis induction and micronucleus formation after exposure to the auger-electron emitter zinc-65 in a human cell line. [Acta Oncologica, 39, 699-706 \(2000\)](#)
- **Simkó M.**, E. Dopp and R. Kriehuber: Absence of synergistic effects on micronucleus formation after exposure to ELF-EMF and asbestos fibers in vitro. [Toxic. Lett., 108, 47-53 \(1999\)](#)
- Kriehuber R., **Simkó M.**, Schiffmann D. and Trott K.R.: Delayed cytotoxic and genotoxic effects in a human cell line following X-irradiation. [Int. J. Radiat. Biol. 75, 1021-1027 \(1999\)](#)
- **Simkó M.**, R. Kriehuber, S. Lange: Micronucleus formation in human amnion cells after exposure to 50 Hz MF applied horizontally and vertically. [Mutat. Res., 418, 101-111 \(1998 b\)](#)
- **Simkó M.**, Kriehuber R., Weiss D.G. and Luben R.:The effects of 50 Hz EMF exposure on micronucleus formation and apoptosis in transformed and non transformed human cell lines. [Bioelectromagnetics, 19, 85-91 \(1998 a\)](#)
- **Simkó M.**, Noßke D.: Basis for a revision of the gastrointestinal tract model. [Radiation Protection Dosimetry 63, 29-36 \(1996\)](#)
- Dopp E., Nebe B., Hahnel C., Papp T., Alonso B., **Simkó M.** and Schiffmann, D.: Mineral fibers induce apoptosis in syrian hamster embryo (SHE) fibroblasts. [Pathobiology 63, 213-221 \(1995\)](#)
- Hadjiolov N., **Simkó M.**, Zimmermann H.P.: Immunohistochemical demonstration of rat pancreatic cancer-related antigen by monoclonal antibodies. *Compt. Rend. de L'Academie bulgare des Sciences* 42, N 6, 325-327 (1989)

NanoTrust Dossiers (published in German and English)

- Simkó, M. (2012) Warum ist die Frage nach der (Nano-) Dosis so wichtig? (*Why is question about (nano) dose so important?*) Institut für Technikfolgen-Abschätzung, Wien, [NanoTrust-Dossiers, Nr. 28 \(2012\)](#)
- Fries R, Greßler S, **Simkó M.** Kohlenstoff-Nanoröhrchen (Carbon Nanotubes) – Teil II: Risiken und Regulierung (*Carbon Nanotubes – Part II: Risks and regulation*) Institut für Technikfolgen-Abschätzung, Wien, [NanoTrust-Dossiers, Nr. 24 \(2011\)](#)

- Greßler S, Fries R, **Simkó M**, Kohlenstoff-Nanoröhrchen (Carbon Nanotubes) – Teil I: Grundlagen, Herstellung, Anwendung (*Carbon Nanotubes – Part I: Basics, Production, Practice*) Institut für Technikfolgen-Abschätzung, Wien, [NanoTrust-Dossiers, Nr. 22 \(2011\)](#)
- **Simkó M**: Gibt es neurologische Effekte und Risiken durch synthetische Nanopartikel? (*Are there any neurological effects and risks from nanoparticles to expect?*) Institut für Technikfolgen-Abschätzung, Wien, [NanoTrust-Dossiers, Nr. 21 \(2011\)](#)
- Greßler, S., Fiedeler, U., Simkó, M., Gázsó, A. und Nentwich, M., 2010, Selbstreinigende, schmutz- und wasserabweisende Beschichtungen auf Basis von Nanotechnologie. NanoTrust-Dossiers, Nr. 020 hrsg. v. Institut für Technikfolgen-Abschätzung, Wien [Dossier Nr.20 \(2010\)](#)
- Eisenberger, I., Nentwich, M., Fiedeler, U., Gázsó, A., Simkó, M., 2010, Nano-Regulierung in Österreich (II): ArbeitnehmerInnenschutz, Anlagen- und Umweltrecht. NanoTrust-Dossiers, Nr. 019 - Mai 2010, Wien: Institut für Technikfolgen-Abschätzung Wien, [Dossier Nr.19 \(2010\)](#)
- Eisenberger, I., Nentwich, M., Fiedeler, U., Gázsó, A., Simkó, M., 2010, Nano-Regulierung in Österreich (I): Stoff- und Produktrecht. NanoTrust-Dossiers, Nr. 018 - Mai 2010, Wien: Institut für Technikfolgen-Abschätzung Wien, [Dossier Nr.18 \(2010\)](#)
- Eisenberger, I., Nentwich, M., Fiedeler, U., Gázsó, A., Simkó, M., 2010, Nano-Regulierung in der Europäischen Union. NanoTrust-Dossiers, Nr. 017 - April 2010, Wien: Institut für Technikfolgen-Abschätzung Wien, [Dossier Nr.17 \(2010\)](#)
- Fiedeler, U., Nentwich, M., Greßler, S., Gázsó, A., Simkó, M., 2010, Industrielle Selbstverpflichtungen und freiwillige Maßnahmen im Umgang mit Nanomaterialien. NanoTrust-Dossiers, Nr. 016 - März 2010, Wien: Institut für Technikfolgen-Abschätzung Wien, [Dossier Nr.16 \(2010\)](#)
- Greßler S, Simkó, M, Gázsó A, Fiedeler U, Nentwich M, Nano-Textilien (*Nano textiles*) NanoTrust-Dossiers, Hrsg. v. Institut für Technikfolgen-Abschätzung, Wien, [Dossier Nr.15 \(2010\)](#)
- **Simkó M**, Fiedeler U, Gázsó, A Nentwich M, Können Nanopartikel in das Gehirn gelangen? (*Can nanoparticles reach the brain*) NanoTrust-Dossiers, Hrsg. v. Institut für Technikfolgen-Abschätzung, Wien, [Dossier Nr.14 \(2009\)](#)
- Fiedeler U, Fries R, Nentwich M, Simkó, M, Gázsó A, Diskussion um den Anteil der Begleitforschung im US-amerikanischen Forschungsprogramm zur Nanotechnologie, (*Discussion on the Proportion of EHS and ELSI Research in the US Research Programme on Nanotechnologies*) NanoTrust-Dossiers, Hrsg. v. Institut für Technikfolgen-Abschätzung, Wien, [Dossier Nr. 13 \(2009\)](#)
- **Simkó M**, Gázsó A, Fiedeler U, Nentwich M, Nanopartikel, Freie Radikale und Oxidativer Stress, (*Nanoparticles, Free Radicals and Oxidative Stress*) NanoTrust-Dossiers, Hrsg. v. Institut für Technikfolgen-Abschätzung, Wien, [Dossier Nr. 12 \(2009\)](#)
- Fiedeler U, Nentwich M, **Simkó M**, Gázsó A, Was ist eigentlich Begleitforschung zur Nanotechnologie? (*What is "Accompanying Research" on Nanotechnology?*) Hrsg. v. Institut für Technikfolgen-Abschätzung, Wien, NanoTrust-Dossiers, [Dossier Nr. 11, \(2009\)](#)
- Fries R, Greßler S, **Simkó M**, Gázsó A Fiedeler U, Nentwich M, Nanosilber, (*Nano Silver*) NanoTrust-Dossiers, Hrsg. v. Institut für Technikfolgen-Abschätzung, Wien, [Dossier Nr. 10, Wien \(2009\)](#)
- Greßler S, Nentwich M, **Simkó M**, Gázsó A, Fiedeler U, Nano-Konsumprodukte in Österreich, NanoTrust-Dossiers, (*Nanotechnology Consumer Products in Austria*) Hrsg. v. Institut für Technikfolgen-Abschätzung, Wien, [Dossier Nr. 9 \(2009\)](#)
- Greßler S, Gázsó A, **Simkó M**, Fiedeler U, Nentwich M, Nanotechnologie in Kosmetika, (*Nanotechnologies in Cosmetics*) NanoTrust-Dossiers, Hrsg. v. Institut für Technikfolgen-Abschätzung, Wien, [Dossier Nr. 8 \(2009\)](#)
- **Simkó M**, Fiedeler U, Gázsó A, Nentwich M, Einfluss von Nanopartikeln auf zelluläre Funktionen. NanoTrust-Dossiers, (*Nanoparticles and Cellular Functions*) Hrsg. v. Institut für Technikfolgen-Abschätzung, Wien, [Dossier Nr. 7 \(2008\)](#)

- Raab C, **Simkó M**, Fiedeler U, Nentwich M, Gazsó A, Herstellungsverfahren von Nanopartikeln und Nanomaterialien. (*Production of Nanoparticles and Nanomaterials*) NanoTrust-Dossiers, Hrsg. v. Institut für Technikfolgen-Abschätzung, Wien, [Dossier Nr. 6 \(2008\)](#)
- Gazsó A, Fiedeler U, **Simkó M**, Nentwich M, Umwelt- und Gesundheitsauswirkungen von Nanopartikeln – EU-Projekte im 6. Rahmenprogramm. (*Environmental and Health Impacts of Nanoparticles - EU Projects in the 6th FP*) NanoTrust-Dossiers, Hrsg. v. Institut für Technikfolgen-Abschätzung, Wien [Dossier Nr. 5 \(2008\)](#)
- Greßler S, Gazsó A, **Simkó M**, Nentwich M, Fiedeler U, Nanopartikel und nanostrukturierte Materialien in der Lebensmittelindustrie. (*Nanoparticles and Nanostructured Materials in the Food Industry*) NanoTrust-Dossiers, Hrsg. v. Institut für Technikfolgen-Abschätzung, Wien, [Dossier Nr. 4 \(2008\)](#)
- **Simkó M**, Nentwich M, Gazsó A, Fiedeler U, Wie kommen Nanopartikel in den menschlichen Körper und was verursachen sie dort? (*How Nanoparticles Enter the Human Body and what are the effects?*) NanoTrust-Dossiers, Hrsg. v. Institut für Technikfolgen-Abschätzung, Wien [Dossier Nr. 3 \(2008\)](#)
- Raab C, **Simkó M**, Gazsó A, Fiedeler U, Nentwich M, Was sind synthetische Nanopartikel? (*What are Synthetic Nanoparticles?*) NanoTrust-Dossiers, Hrsg. v. Institut für Technikfolgen-Abschätzung, Wien, [Dossier Nr. 2 \(2008\)](#)
- Fiedeler U, **Simkó M**, Gazsó A, Nentwich M, Zur Definition der Nanotechnologie. (*On the Definition of Nanotechnology*) NanoTrust-Dossiers, Hrsg. v. Institut für Technikfolgen-Abschätzung, Wien, [Dossier Nr. 1 \(2008\)](#)

For the European Commission

- SCENIHR (Scientific Committee on Emerging and Newly Identified Health Risks), Research needs and methodology to address the remaining knowledge gaps on the potential health effects of EMF, [6 July 2009](#)
- SCENIHR (Scientific Committee on Emerging and Newly Identified Health Risks), Health Effects of Exposure to EMF, [19 January 2009](#)
- SCENIHR (Scientific Committee on Emerging and Newly Identified Health Risks), Possible effects of Electromagnetic Fields (EMF) on Human Health, [21 March \(2007\)](#)

Book contributions (peer reviewed):

- Fiedeler, U., Gazsó, A., Nentwich, M., **Simkó, M.**, Governance von Nanotechnologie - Das österreichische Projekt NanoTrust als Beispiel, in: Aichholzer, G., Bora, A., Bröchler, S., Decker, M. and Latzer, M. (Eds): Technology Governance. Der Beitrag der Technikfolgenabschätzung, Berlin: edition sigma, 247-255 (2010)
- **Simkó M**, Molecular Nanotechnology, in: Guston, D. H. (Ed.) Encyclopedia of Nanoscience and Society: SAGE Publications, Vol 1, 434-436 (2010)
- **Simkó M**, 2010, Nanomedicine: Toxicological Issues, in: Guston, D. H. (Ed.): Encyclopedia of Nanoscience and Society: SAGE Publications, Vol 2, 509-511.
- Fiedeler U, Gazsó A, **Simkó M**, Nentwich M. NanoTrust. Ein österreichisches Projekt zu möglichen Gesundheits- und Umweltrisiken der Nanotechnologie, Technikfolgenabschätzung – Theorie und Praxis 17(2), p.72-74 (2008)
- Gminski R, Schlatterer K, Fitzner RG, **Simkó M**: Genotoxische Effekte durch hochfrequente elektromagnetische Felder. In: Risikobewertung Mobilfunk; Ergebnisse eines wissenschaftlichen Dialogs. Eds. PM Wiedemann, H. Schutz, A. Spangenberg. Forschungszentrum Julich, Umwelt/Environment, 54, A1-31 (2005)

- **Simkó M:** Zellulärer Wirkmechanismen zur Wirkung elektromagnetischer Felder. In: Forschungsprojekte zur Wirkung elektromagnetischer Felder des Mobilfunks, Bundesamt für Strahlenschutz, Eds. J. Brix, R. Matthes, O. Schulz, W. Weiß, BfS Schriften 25/2002, 72-73 (2002)
- Kriehuber R, **Simkó M:** Target cell dosimetry for short-range particles: The biological effects of the Auger Emitter ⁶⁵Zn. Radiation Fields, Dosimetry, Biokinetics and Biophysical Models for Cancer Induction by Ionising Radiation 1996-1999, Ed. J. Ertel, GSF Forschungszentrum für Umwelt und Gesundheit GmbH, Neuherberg, 49-59, (1998)
- Lux D, Kammerer L, **Simkó M**, Hiersche L, Wirth E: Migration und Transfer von Transuranen (Pu, Am) und langlebigen Spaltprodukten (Sr, Ru, Sb, Cs, Eu) in Waldökosystemen der 30-km Zone von Tschernobyl. In: Umweltradioaktivität, Radioökologie, Strahlenwirkungen; Hrsg., Winter M., Wicke A.; Verlag TÜV Rheinland, Köln, Band 2, 715-720 (1993)

Proceedings and reports (selected)

- **Simkó M.** „Omics for Assessing Unclear Risks (Omik-Technologien zur Einschätzung unklarer Risiken)“ Rapporteursbericht zum Workshop, FGF News Letter, 3, 1-12, (2008)
- Fiedeler, U., Gzásó, A., **Simkó, M.** und Nentwich, M., NanoTrust. Ein österreichisches Projekt zu möglichen Gesundheits- und Umweltrisiken der Nanotechnologie, Technikfolgenabschätzung – Theorie und Praxis 17(2), 72-74 (2008)
- Nentwich, M., Fiedeler, U., Gzásó, A. und **Simkó, M.**, NanoTrust. Ein Beitrag zum Umgang mit möglichen Gesundheits- und Umweltrisiken sowie gesellschaftlichen Aspekten der Nanotechnologien; Bericht an das Parlament, Nr. C21-1, Mai, Wien: Institut für Technikfolgen-Abschätzung (2008)
- **Simkó M:** Synergistic effects after exposure to NF-EMF and other noxes. In: FGF-Workshop of Genetic and cytogenetic aspects of RF-field interaction. Herg. Berufsgenossenschaft der Feinmechanik und Elektrotechnik, pp 35-37 (2005)
- **Simkó M:** Cells meet electromagnetic fields - Biologische Wirksamkeit elektromagnetischer Felder, Traditio et Innovatio, Das Forschungsmagazin der Universität Rostock, Heft 2, 8. Jahrgang, 30-33 (2003)
- **Simkó M:** Electromagnetic fields as effector for cellular responses in vitro. In: COST 244 BIS Biomedical Effects of Electromagnetic Fields; Workshop “Biological EMF-Interaction Mechanisms and their relevance to exposure Limits, 2000 Munich, Germany; Proceedings, 73-79 (2000)
- **Simkó M**, Kriehuber R, Noßke D: Revision of the biokinetic data of Cobalt. International Commission on Radiological Protection (ICRP), Committee 2; Oak Ridge/Tennessee, USA 1998; ICRP-C2/HAT/98-15, 1-29 (1998)
- **Simkó M**, Noßke D: Ein neues biokinetisches Modell für den Magen-Darm-Trakt. In: BfS Jahresbericht 1994, Bundesamt für Strahlenschutz, Salzgitter, 83-85, (1995)
- **Simkó M**, Noßke D: Grundlagen zur Revision des biokinetischen Magen-Darm-Trakt-Modells. BfS / ISH-IB 5, 1-35 (1995)
- **Simkó M:** A new gastrointestinal-tract-model. International Commission on Radiological Protection (ICRP), Committee 2; Cadarache, France 1994; ICRP/94/C 2-12 (1994)
- Kriehuber R, Dehos A, **Simkó M**, Meier S: Molekularbiologische Untersuchungen zur Wirkung ionisierender Strahlung. In: BfS Jahresbericht 1992, Bundesamt für Strahlenschutz, Salzgitter, 64-67, (1993)
- Kammerer L, Hiersche L, Lux D, **Simkó M**, Wirth E: Verhalten von Radionukliden in Böden und Pflanzen innerhalb der 30-km Zone von Chernobyl. In: BfS Jahresbericht 1992, Bundesamt für Strahlenschutz, Salzgitter, 76-77, (1993)

Invited Lectures

- Metrics, dose, and dose concept: The need for a proper dose concept in risk assessment of nanoparticles. OECD 3rd Expert Consultation Meeting of the WPMN SG7 on Alternative Test Methods in Nanotoxicology, 27-29.03.2012, Paris/France
- Toxikologische Aspekte von Nanopartikeln. Nanotechnologie und ArbeitnehmerInnen-Schutz, 07.12.2011, Wien/Austria.
- Strategies for in vitro research. Network meeting: “Neurodegenerative diseases and ELF & RF EMF exposure”, 20.09.2011, Berlin/Germany.
- Metrics, Dose and Dose Concept: The Need for a Proper Dose Concept in Risk Assessment of Nanoparticles: International Conference on Biological Responses to Nanoscale Particles, 12.09.2011, Essen/ Germany.
- Cells meet electromagnetic fields: Cell type and redox status dependent effects. EMF symposium, “Low frequency electromagnetic field exposure and modulation of cellular functions”. 16.09.2010, Wageningen, Netherlands (invited plenary lecture)
- Nanoparticles: Biological effects and approaches to risk assessment, Institute for Biotechnology, IMC FH Krems, 08.04.2010, Krems, Austria
- Nano meets cells: The interaction between engineered nanoparticles and living matter, Nanotech Malaysia 2009, October 27-29, 2009, Kuala Lumpur, Malaysia (invited plenary lecture)
- Nano meets cells: The interaction between engineered nanoparticles and living matter, October 28, 2009, UKM Medical Molecular Biology Institute, Kuala Lumpur, Malaysia
- The interaction between engineered nanoparticles and living matter, 25th Annual Conference of the Society of Minerals and Trace Elements (GMS), BOKU October 2-3, 2009, Vienna, Austria (invited plenary lecture)
- Nanoparticles: Biological Effects and Approaches to Risk Assessment, Materials Days Rostock, University of Rostock, July 9-10, 2009, Germany
- Aspects of nanotoxicology, Bionanomed Conference, Krems, 26-27.01.2009 Abstract Book, Krems, Austria
- Induction of cell activation processes by MFs: cell activation via the alternative pathway in immune relevant cells. Stockholm University, 19. April 2007, Stockholm, Sweden
- Induction of cell activation processes by low frequency electromagnetic fields. University Vienna, 15 December 2006, Vienna, Austria
- ELF-MFs induce cell activation via the alternative pathway in immune relevant cells. 4th International Workshop on Biological Effects of Electromagnetic Fields. 16-20 October 2006, Crete, Greece (invited plenary lecture)
- Functional and molecular investigations after 1.8 GHz radiofrequency electromagnetic fields exposure in different immune cells. Workshop "Proposed mechanisms for the interaction of RF-Signals with living Matter", 11-13th September 2006, Rostock, Germany.
- DNA repair. Örebro University, 6th December 2005, Örebro, Sweden.
- Genotoxic effects after exposure to ELF-EMF and other noxes, Erice Summer School, 2005 Italy.
- Apoptosis. Erice Summer School, 2005 Italy.
- Induction of cell activation processes by low frequency electromagnetic fields. 27 Annual Meeting of The BEMS, 2005, Dublin, Ireland.
- Biological effectiveness of electromagnetic fields. University of Wageningen, 17th January 2005, Wageningen, Holland.

- Cells and EMF - Biological effectiveness of electromagnetic fields. Annual Winter-Meeting of The Bioelectromagnetics Society, 5th February 2005, Phoenix, Arizona, USA
- Cells meet electromagnetic fields. Örebro University, 16th December 2004, Örebro, Sweden.
- Mechanisms of cell activation processes after exposure to electromagnetic fields. 6th International Congress of the European Bioelectromagnetics Association (EBEA), 13–15 November 2003 Budapest, Hungary.
- Cell activation processes induced by 50 Hz electromagnetic fields. 25 Annual Meeting of The BEMS, 2003, Maui, Hawaii, USA.
- Cell cycle disturbances, interleukin production and generation of super oxide radicals after exposure to 50 Hz EMF in mouse macrophages. 24 Annual Meeting of The BEMS, 2002, Quebec, Canada.
- Synergistic effects after exposure to NF-EMF and other noxes. Workshop of “Genetic and cytogenetic aspects of RF-field interaction” Löwenstein (Stuttgart), Germany 24th - 27th November 2002, Löwenstein.
- Biologische Wirkungen von elektromagnetischen Feldern. Diskussionsforum der Stadt Rostock (Umweltsenator, T-Mobil), 29.10.2002 Rostock.
- How electromagnetic fields act in biologic systems? Prof. Adlkofer, Reflex-Meeting 25.10.-17.10.2002 Bologna, Italien.
- Elektromog? III. Umweltmedizinisches Symposium der Ärztekammer Mecklenburg Vorpommern, Rostock (Prof. Hennighausen) 24. November 2001, Rostock.
- Biologische Wirkungen von elektromagnetischen Feldern. Diskussionsseminar Elektromog, Vorkommen-Wirkungen-Messen. Technologiepark Warnemünde (Prof. J. Kreuzmann) 26. Oktober 2001, Warnemünde.
- Micronucleus induction in SHE cells following exposure to 50 Hz magnetic fields, Benzo(a)pyrene and TPA in vitro. 23 Annual Meeting of The BEMS, 2001, St. Paul, Minnesota, USA, 2001, St. Paul, USA.
- Sind elektromagnetische Felder Streßfaktoren oder mögliche Stimuli für Zellaktivierung? Seminarreihe im Institut für Zoologie (Prof. Herwig O. Gutzeit), Technische Universität Dresden, 29.05.2001, Dresden.
- EMF as possible stimuli for cell activation? Kleinheubacher Tagung 2000 des "International Union of Radio Science" (U.R.S.I.) Landesausschusses in der Bundesrepublik Deutschland, 26.09. 2000, Kleinheubach.
- Biological effectiveness of electromagnetic fields. Frederic Joliot-Curie National Research Institute for Radiobiology and Radiohygiene, Budapest, 1.09.2000, Budapest, Ungarn.
- Influence on phagocytosis and free radical production in mouse macrophages following exposure to 50 Hz ELF-EMF as possible stimuli for cell activation? 22 Annual Meeting of The Bioelectromagnetics Society, 13.06.2000, München.
- Biologische Wirkung elektromagnetischer Felder. Seminarreihe im Fachbereich Elektrotechnik und Informationstechnik (Prof. Dr. Ursula van Rienen) an der Universität Rostock, 26.05.2000, Rostock
- Elektromagnetische Felder als Stressfaktoren. Tage der Forschung an der Universität Rostock, 11.11.1999, Rostock
- Wirkung niederfrequenter elektromagnetische Felder auf die Phagozytose in murinen Knochenmarksmakrophagen. Tagung der Arbeitsgruppe elektromagnetische Felder, 5-6. 05. 1999, Dresden

- Untersuchungen zur Mikrostrukturbildung und zur Induktion von programmiertem Zelltod nach Exposition mit 50 Hz-Feldern in vitro. 8.Arbeitssitzung - Biologische Wirkung elektromagnetischer Strahlung - Forschungsinitiative NRW - 19.11.1997, Essen
- Biologische Wirkung elektromagnetischer Felder. Seminarreihe im Fachbereich Informatik (PD. Dr. Siegm. Adomßent) der Universität Rostock, 1998, Rostock
- Biologische Wirkung elektromagnetischer Felder. Tage der Forschung an der Universität Rostock, 1997, Rostock

Peer reviewed conference contributions (selected)

- Mattsson MO, Mild KH and **Simkó M**: Ornithine Decarboxylase Activity in Jurkat Cells is enhanced by 50 Hz Magnetic Field Exposure and Cyclic AMP Stimulation. 33th Annual Meeting of The BEMS 2011, Halifax, Canada
- **Simkó M**, Mannerling AC, Mild KH and Mattsson MO: What goes on in Cells after 50 Hz Magnetic Field Exposure? 33th Annual Meeting of The BEMS 2011, Halifax, Canada
- **Simkó M**: Cells meet electromagnetic fields: Cell type and redox status dependent effects. EMF symposium, "Low frequency electromagnetic field exposure and modulation of cellular functions". 16.09.2010, Wageningen (NL)
- Strompen J, Mattsson MO, Weiss DG, **Simkó M**, and Lantow M: Effects of 50 Hz extremely low-frequency electromagnetic fields (ELF-EMF) on the redox status of human Mono Mac 6 and K562 cells. 20th Annual Conference of the German Society for Cytometry Oct. 13-15. 2010, Leipzig, Germany (2010)
- Lantow M, Mattsson MO, Weiss DG. and **Simkó M**.: Fifty hertz extremely low-frequency electromagnetic field causes changes in redox status in human Mono Mac 6 cells, 19th Annual Conference of the DGfZ, 14th-16th October, 2009, Leipzig, Germany (2009)
- Lantow M, Mattsson MO, Weiss DG and **Simkó M**.: Responding and nonresponding human Mono Mac 6 cell line cells to electromagnetic field exposure BioEM2009 Meeting of The BEMS, 2009, Davos, Switzerland, (2009)
- Mannerling AC, **Simkó M**, Hansson Mild K, Mattsson MO: Oxygen radical release in human leukaemia cell lines after ELF magnetic field exposure. 30 Annual Meeting of The BEMS, 2008, San Diego, USA, (2008)
- Lantow M, Mattsson MO, Hanson Mild K. and **Simkó M**: Functional Investigations of the GSM-DTX modulation of 1.8 GHz RF exposure in immune relevant cells. 30 Annual Meeting of The BEMS, 2008, San Diego, USA, (2008)
- Hanson Mild K, Mattsson MO, Weiss DG and **Simkó M**: What are you exposing your controls cells to? A study of background magnetic fields in incubators. 30 Annual Meeting of The BEMS, 2008, San Diego, USA, (2008)
- Frahm J, Hoffmann E, Hannemann S, **Simkó M**: Oscillation of coated-pit vesicle related proteins after magnetic field exposure to mouse macrophages Eur J Cell Biol 85, 26-26 Suppl. 56 (2006).
- **Simkó M**, Frahm J, Lupke M and Maercker C: ELF-MF induce cell activation via the alternative pathway in immune relevant cells. 4th International Workshop on Biological Effects of Electromagnetic Fields. Crete, Greece, Proceedings (2006).
- **Simkó M** and Lantow M: Functional and molecular investigations after 1.8 GHz radiofrequency electromagnetic fields exposure in different immune cells. Workshop "Proposed mechanisms for the interaction of RF-Signals with living Matter", Rostock, Germany (2006).
- Lantow M, Hartwig C, Maercker C and **Simkó M**: Free radical Production, Hsp70 expression and protein profiling after 1800 mhz RF exposure in different immune relevant cells. 27 Annual Meeting of The BEMS, 2005, Dublin, Ireland (2005).
- Lupke M, Rollwitz J, Lantow M, Maercker C and **Simkó M**: Activation of umbilical cord blood-derived monocytes following exposure to 50 Hz electromagnetic fields. 27 Annual Meeting of The BEMS, 2005, Dublin, Ireland (2005).
- **Simkó M** and Mattsson MO: Induction of cell activation processes by low frequency electromagnetic fields. 27 Annual Meeting of The BEMS, 2005, Dublin, Ireland (2005).
- HSP70 regulation in human cells after exposure to 50 Hz magnetic fields: Mannerling AC, Hannemann S, **Simkó M**, Hansson Mild K, Mattsson MO: 27 Annual Meeting of The BEMS, 2005, Dublin, Ireland (2005).

- Lantow M and **Simkó M**: 1800 MHz RF-EMF do not induce free radical production in different immune relevant cells. 26 Annual Meeting of The BEMS, 2004, Washington DC, USA, (2004).
- **Simkó M**, Hannemann S and Lange S: Modifications in cell cycle kinetics and in expression of G1 phase-regulating proteins in human amniotic cells after exposure to 50 Hz electromagnetic fields and ionizing radiation. 26 Annual Meeting of The BEMS, 2004, Washington DC, USA, (2004).
- Lupke M, Maercker C and **Simkó M**: Alteration in gene expression after 50 Hz ELF-MF exposure in human umbilical cord blood-derived monocytes. Biological Effects of Electromagnetic Fields, 3rd International Workshop, Kos, Greece, Proceedings, (2004).
- **Simkó M**, Lupke M and Rollwitz J: Cell activation processes induced by 50 Hz electromagnetic fields. 25 Annual Meeting of The BEMS, 2003, Maui, Hawaii, USA, (2003).
- Lupke M, Rollwitz J, Viergutz T and **Simkó M**: Activation of umbilical cord blood-derived monocytes following exposure to 50 Hz electromagnetic fields. 25 Annual Meeting of The BEMS, 2003, Maui, Hawaii, USA, (2003).
- Rollwitz J, Lupke M and **Simkó M**: The induction of cell activation processes after exposure to 50 Hz EMF is dependent on the differentiation status of mouse macrophages. 25 Annual Meeting of The BEMS, 2003, Maui, Hawaii, USA, (2003).
- **Simkó M.** and Lange S: Alterations in the expression level of cell cycle regulating proteins after exposure to 50 Hz electromagnetic fields in human cells. Biological Effects of Electromagnetic Fields, 2nd International Workshop, Rhodes, Greece, Proceedings, (2002).
- **Simkó M** and Rollwitz J: Cell cycle disturbances, interleukin production and generation of superoxide radicals after exposure to 50 Hz EMF in mouse macrophages. 24 Annual Meeting of The BEMS, 2002, Quebec, Canada, (2002)
- **Simkó M**, Richard D, Kriehuber R and Weiss DG: Micronucleus induction in SHE cells following exposure to 50 Hz magnetic fields, Benzo(a)pyrene and TPA in vitro. 23 Annual Meeting of The BEMS, 2001, St. Paul, Minnesota, USA, (2001)
- Kriehuber, R, **Simkó M**, Unverricht M, Lange S, Richard D, Weiss DG: Radiation-induced apoptosis in a tumour cell line lacking functional p53. In Proceedings of the 31st Annual Meeting of the European Society for Radiation Biology (ESBR) and 5. Jahrestagung der Gesellschaft für Biologische Strahlenforschung, Eds. W. Dörr, D. Frankenberg, D. Harder, J. Kiefer, (2001)
- Lange S, Richard D, Viergutz T, Kriehuber R, Weiss DG, **Simkó M**: Effects of 50 Hz magnetic fields and ionizing radiation on the cell cycle and on G1-phase regulating proteins in human cells. In Proceedings of the 31st Annual Meeting of the European Society for Radiation Biology (ESBR) and 5. Jahrestagung der Gesellschaft für Biologische Strahlenforschung, Edts. W. Dörr, D. Frankenberg, D. Harder, J. Kiefer, (2001)
- Lange S, Richard D, Viergutz T, Kriehuber R, and **Simkó M**: Analysis of the cell cycle and the expression of G1 regulating proteins after exposure to 50 Hz MF in human amniotic fluid cell. 23 Annual Meeting of The BEMS, 2001, St. Paul, Minnesota, USA, (2001)
- Lange S, Richard D, Viergutz T, Kriehuber R, and **Simkó M**: Influence of 50 Hz electromagnetic fields in combination with ionizing radiation on the cell cycle progression and on proteins involved in G1/S transition in two human cell lines. Millennium Workshop on Biological Effects of Electromagnetic Fields, Heraklion, Greece, 2000
- Richard D, Lange S, Viergutz T, Kriehuber R, **Simkó M**: The influence of 50 Hz EMF in combination with tumour promoting phorbol ester on protein kinase C and on cell cycle in two human cell lines. 22 Annual Meeting of The BEMS, 2000, Munich, Germany, (2000)
- Kriehuber R, Riedling M, Lange S, Richard D, Viergutz T, Weiss DG and **Simkó M**: Apoptosis in tumour cells lacking functional Eur. J. Cell Biol. Suppl. (2000)