# Curriculum Vitae

**Last name, First name**: **Mattsson, Mats-Olof** **Gender**: **Male**

**Nationality**: **Swedish**

**Overall Scientific Expertise:**

[Based on your educational and professional backgrounds, please summarize (up to 100 words) your scientific expertise (disciplinary areas, competencies, etc.) especially your health and environmental risk assessment expertise *(if applicable*).]

Undergraduate and graduate education in biology and chemistry followed by post-graduate education in animal physiology and cell and developmental biology. Many years of research in developmental and neurobiology which gradually included environmental and toxicological aspects of research in these disciplines. Currently active in basic research in neurobiology on the cell and molecular level, as well as research on toxicological and environmental aspects of physical and chemical agents (EMF, nanoparticles, flame retardants) and health risk assessments of these factors. Present activities also include development of in vitro based tools for toxicological and pharmaceutical research.

**Professional Experience**

[Starting with your present occupation, list in reverse chronological order each activity in which you have been engaged. Please copy and paste more rows if needed.]

| Years employed from – to | Title of position | Employer – name and location | Areas of professional specialization♠ |
|---|---|---|---|
| 2008-present | Professor | University of Vienna, Vienna, Austria | Neurobiology, nanotechnology pharmacology, toxicology, risk assessment, |
| 1999-2009 | Professor | Örebro University, Örebro Sweden | Cell biology, toxicology, risk assessment |
| 2006-2007 | Professor | University of Rostock, Rostock, Germany | Neurobiology, tissue engineering, toxicology |
| 1988-1998 | Assistant/associate professor | Umea University, Umea, Sweden | Cell and developmental biology, neurobiology, toxicology |
| 1987-1990 | Senior scientist | National Institute of Occupational Health | Occupational medicine |
| 1983-1987 | Research assistant | Umea University, Umea, Sweden | Developmental biology |
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♠[*For example*: toxicology (alternative methods, carcinogenesis, endocrine, immunotoxicity, occupational, exposure assessment, genotoxicity, etc.), chemistry (atmospheric, medicinal, peptide, etc.), physics (biophysics, EMF radiation, noise, etc.), engineering (genetic, environmental, medical, etc.), biology (antimicrobial resistance, biophysics, biotechnology, etc.), medicine (allergies, neurology, etc.), epidemiology (clinical, genetic, cancer, etc.) environmental science (air quality, waste treatment, climate change, ecology, etc.), biostatistics, pharmacokinetics, medical technologies, nanoscience, etc…]

**Educational Background**

[Starting with the most recent, please provide the details of your post-secondary education and/or professional training (e.g. university or its equivalent, postgraduate, postdoctoral). Please copy and paste more rows if needed.]

| Year | Degree awarded | Educational Institution – name and location | Areas of educational specialization* |
|---|---|---|---|
| 1992 | Docent | Umea University, Umea, Sweden | Cell and developmental biology |
| 1987 | Ph.D. | Umea University, Umea, Sweden | Animal physiology |
| 1983 | B.Sc. | Umea University, Umea, Sweden | Biology, chemistry |
| 1977 | B.DSc | Umea University, Umea, Sweden | Dental medicine |

*[*For example*: chemistry (analytical, organic, etc.), physics (thermodynamics, nuclear, etc.), engineering (mechanical, electrical, chemical, civil, etc.), biology (microbiology, molecular, etc.), medicine (dermatology, oncology, etc.), environmental science, pharmacology, toxicology, etc.…]

**Memberships in Scientific Advisory Bodies/Committees/Panels** *(if any)***:**
TeliaSonera Scientific Advisory Board (2009-present)
Wissenschaftsbeirat Funk, Vienna, Austria (2009-present)
DG SANCO SCENIHR (2004-present)
Örebro Life Science Center (2004-2008)
SIFs Scientific Council (Noll-risk i IT-samhället) 1999-2001
Bioelectromagnetics Society (1999-2000)
Swedish chapter of URSI (1999-present)
NIEHS WG on EMF (1996-1998)

**Memberships in Learned Societies** *(if any)***:**
**Presently member in:**
BEMS (Bioelectromagnetics Society)

SNRV (Svensk Nationalförsamling för Radiovetenskaper)

Swefield (Swedish network for bioelectromagnetics research)

DGZ (Deutsche Gesellschaft fuer Zellbiologie)

**Memberships in Editorial Boards** *(if any)***:**
Bioelectromagnetics

**List of Publications:**
[Please indicate the type and total number of your publications. In addition, provide the bibliographic details for the 7 most representative, peer-reviewed articles which highlight the main areas of your scientific expertise.]

| | |
|---|---|
| Original papers and proceedings | ca 60 |
| Review articles | 7 |
| Reports | ca 20 |
| Conference contributions | ca 60 |

Books 1

Seven representative articles:

Simkó M, C Hartwig, M Lantow, M Lupke, M-O Mattsson, Q Rahman and J Rollwitz. Hsp70 expression and free radical release after exposure to non-thermal radio-frequency electromagnetic fields and ultrafine particles in human Mon Mac 6 cells. Toxicol Letters 161:73-82. 2006.

Lantow M, Lupke M, Frahm J, Mattsson M-O, Kuster N, Simkó M. ROS release and Hsp70 expression after exposure to 1,800 Mhz radiofrequency electromagnetic fields in primary human monocytes and lymphocytes. Radiat Environ Biophys, 45:55-62. 2006.

Simkó M, M-O Mattsson. Extremely low frequency electromagnetic fields as effectors of cellular responses in vitro: Possible immune cell activation. J Cell Biochem, 93:83-92, 2004.

Mattsson M-O, Lindström E, Still M, Lindström P, Hansson Mild K, Lundgren E. $(Ca^{2+})_i$-rise in Jurkat E6-1 cell lines from different sources as a response to 50 Hz magnetic field exposure is a reproducible effect and independent of poly-L-lysine treatment. Cell Biol Int., 25:901-907. 2001.

Lundgren P, L. Johansson, C. Englund, Å. Sellström and M.-O. Mattsson**.** Expression pattern of glutamate decarboxylase (GAD) in the developing cortex of the embryonic chick brain. Int. J. Devl. Neuroscience, 15:127-137. 1997.

Åhman A-K, F. Wågberg and M-O. Mattsson. Two glutamate decarboxylase forms corresponding to the mammalian GAD65 and GAD67 are expressed during development of the chick telencephalon. Eur J Neuroscience, 8:2111-2117. 1996.

Rosander U, I Holm, B Grahn, H Løvtrup, M-O Mattsson and O Heby. Down-regulation of ornithine decarboxylase by a change in enzyme turnover during early gastrulation of *Xenopus laevis.* Biochim. Biophys. Acta. 1264:121-128. 1995.