

Curriculum Vitae

Dr. rer. nat. Jürgen Schiller

University of Leipzig, Medical Faculty
Institute of Medical Physics and Biophysics
Liebigstr. 27, D-04103 Leipzig, Germany
Tel.: +49-341-9715733 Fax: +49-341-9715709
e-mail: juergen.schiller@medizin.uni-leipzig.de

Home:

Täubchenweg 51
D-04317 Leipzig
Germany
Tel.: +49-341-6993108
Mobile: +49-162-8215481

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| 6.12.1965 | Birth date (Bayreuth, Bavaria, Germany) |
| 1972-1976 | Primary School ("Grundschule" St. Georgen in Bayreuth) |
| 1976-1985 | Grammar School ("Gymnasium" Christian Ernestinum in Bayreuth) |
| 1985 | School Leaving Examination ("Abitur") |
| 1985-1987 | Basic Studies of Chemistry at the University of Bayreuth |
| Oct. 87 | Examination ("Vordiplomprüfung") in Chemistry |
| 1987-1990 | Advanced Studies of Chemistry at the University of Bayreuth |
| May 1990 | Examination ("Diplomprüfung") in Chemistry |
| May 90-Feb. 91 | Diploma Thesis at the Chair of Inorganic Chemistry II at the University of Bayreuth
(Topic: From bisamino-chlorophosphanes to phosphenium ions - Applications of multinuclear magnetic resonance spectroscopy) |
| Feb. 91-Oct.1991 | Scientific Co-worker at the Chair of Inorganic Chemistry II at the University of Bayreuth |
| May 92-May 95 | PhD student at the Institute of Medical Physics and Biophysics at the Medical Faculty of the University of Leipzig
Thesis: "NMR investigations of synovial fluids and contributions to the modelling of cartilage destruction during rheumatoid arthritis" |
| May 92-May 97 | Member of the Research Training Group (Graduiertenkolleg) "Molecular- and cell biology of connective tissues" at the Medical Faculty of the University of Leipzig |
| May 95-May 97 | Postdoctoral fellowship ("Cartilage degradation induced by products of stimulated neutrophilic granulocytes") |

1.6. 97-31.5. 99	Postdoctoral fellowship provided by the German Research Council (DFG) with the topic: "Interactions of hydroxyl radicals with components of the extracellular matrix of articular cartilage".
1.6. 99-31.12. 00	Scientific Co-worker at the Institute of Medical Physics and Biophysics at the Medical Faculty of the University of Leipzig (funded by the Collaborative Research Centre "Molecules in Interaction with Surfaces" and the Center of Excellence "Chemical Signal and Biological Response")
1.1. 01-1.07. 01	Scientific Co-worker at the Institute of Medical Physics and Biophysics at the Medical Faculty of the University of Leipzig (funded by the Collaborative Research Centres "Molecules in Interaction with Surfaces" and "Bio- and Model Membranes")
since 1.07.01	Regular position as scientific co-worker at the Institute of Medical Physics and Biophysics at the Medical Faculty of the University of Leipzig
September 2002	Habilitation (Topic of thesis: "Combined application of MALDI-TOF mass spectrometry and ³¹ P NMR spectroscopy for the analysis of lipids and the development of clinical topics")
Since August 2003	Permanent position as scientific co-worker at the Institute of Medical Physics and Biophysics at the Medical Faculty of the University of Leipzig

Research Interests:

- Mass spectrometry of lipids and phospholipids (in particular methodological developments in the field of matrix-assisted laser desorption and ionization time-of-flight (MALDI-TOF) MS)
- Lipid oxidation and peroxidation (induced by HOCl and other reactive oxygen species)
- Coupling between MALDI-TOF MS and thin-layer chromatography
- Tissue engineering / Characterization of tissue organization by NMR spectroscopy
- Degradation of biomacromolecules (particularly glycosaminoglycans) under the influence of reactive oxygen species
- Analysis of body fluids (blood, surfactant, seminal fluid, etc.)