

Hans Gmuender

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Personal Information

- Marital status: married since 1976, two children
- Nationality: Swiss
- Date of birth: June 8, 1950
- Place of birth: Winterthur, Switzerland

Professional experience

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| 2019 | • Consultant for Genedata AG, Basel |
| 2018 | • Retirement, end of December 2018 |
| 2016 | • 'Lehbeauftragter' for Oberseminar "High-Throughput Methods" WS 16/17, University Freiburg, Germany |
| 2001 | • Since October, 2001 Scientific Consultant for Profiler® at Genedata AG, Basel
www.genedata.com
Data analyses of 'omics data for the FP6 EU consortia: BioCop, Proligen, InnoMed PredTox, NewGeneris, carcinoGenomics, INCA, and the FP7 consortia diXa, EuRhythDia, EXPOsOMICS, HeCaToS. Other major consulting projects for: The Czech Academy of Sciences, Novartis, The Netherlands Toxicogenomics Centre, Astellas Pharma, Advanced Technologies Cambridge, Ltd., Institut für Experimentelle Dermatologie der Westfälischen Wilhelms-Universität Münster. |
| 2000 | • Since November, 2000, Data mining consultant at Predict AG, Reinach, in the Pharma Business Unit

• Examen for "PC-Supporter SIZ"

• PC support for Biological Technologies department with 150 employees in collaboration with IT department |
| 1999 | • Team leader for 2 technicians

• Project leader in the biological science area for 3 exploratory projects (DNA Gyrase, Topoisomerase IV, replicative Helicase DnaB)

• Various projects using DNA microchip technology for the analysis of gene expression during bacterial infections

• Begin of course of instruction for PC-Supporter ACOS/SIZ |

- 1998
 - Team leader for 1 scientist and 2 technicians
 - Project leader in the biological science area for 4 projects
 - Implementation of DNA microchip technology in the department of Infectious Diseases for the analysis of gene expression during bacterial infections
 - Ongoing research from previous projects
- 1997
 - Visiting scientist at Roche Bioscience in Palo Alto
 - Development of DNA microchip technology
 - Use of this technology to study various human diseases, e.g. multiple sclerosis in collaboration with a postdoc at Stanford University, Palo Alto, California
- 1993 - 1997
 - Senior scientist at F. Hoffmann-La Roche Ltd, Basel
 - Project leader in the biological science area for 3 projects
 - Established interdepartmental collaborations (Crystallography, NMR, Screening, Analytical Spectroscopy)
 - Established contacts with external University specialists for basic scientific research
 - Presentations of research results at international meetings and conferences
 - Publications in internationally reputed journals
- 1988 - 1993
 - Scientist at F. Hoffmann-La Roche Ltd, Basel
 - Created the environment for the basic and applied research for the essential bacterial enzyme DNA gyrase
 - Created the environment to perform molecular biology in the department of Infectious Diseases at F. Hoffmann-La Roche Ltd
 - Established interdepartmental collaborations
 - Publications in internationally reputed journals
- 1984 - 1988
 - postdoctoral work (see education)
- 1969 - 1973
 - Official in charge in the credit department at Swiss Bank Corporation, Lyss
 - Accounting assistant at Osterwalder AG, Lyss
 - Assistant of publicity manager at the publicity office PUBACO, Biel, with budget responsibility

Education

- 1966 - 1969
 - Apprenticeship at Swiss Bank Corporation in Zug and Biel

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| 1969 | • Final exam of apprenticeship with an average note of 5.3 |
| 1973 - 1976 | • Working-student at AKAD AG in preparation for the
“Eidgenössische Maturitätsprüfung, Typus B” |
| 1976 | • Final Exam, 71 points obtained from max 90 points |
| 1976 - 1980 | • Study of microbiology and biochemistry at the University of Bern |
| 1981 - 1984 | • Ph.D. by Dr. W. Lesslauer at University of Bern

Title of the thesis: Biochemische Untersuchungen eines 45 kD
Membranproteins von humanen T-Lymphozyten und dessen
funktionelle Bedeutung in der Regulation der Zellproliferation |
| 1984 - 1985 | • Post-doc with Dr. W. Lesslauer |
| 1985 - 1988 | • Post-doc with Prof. J. Kohli at University of Bern |

During my thesis work and one year postdoc in Dr. W. Lesslauer's lab in Bern I worked on the characterization of membrane receptors on human T-lymphocytes. I spent three years with Prof. Kohli in Bern learning molecular biology. I designed new shuttle vectors for the transformation of the yeast *Schizosaccharomyces pombe* and the bacterium *E.coli*. I analyzed genomic elements which stabilize such vectors and investigated the function of promoters of higher eukaryotes in this yeast.

Additional professional activities

- Certificate for the education of biology-technicians
- Certificate for the guidance of a type C radioactive laboratory
- Course for data mining (MineSet from Silicon Graphics)
- Good knowledge of Macintosh and PC programs (Windows 98, Windows NT, Microsoft Office 97, Excel, Word, Access, Power Point, Sigma Plot, FileMaker Pro)
- Attended managerial seminar “Führung und Organisation Roche”
- Certificate for “Informatik-Anwender SZ”
- Certificate for “PC-Supporter SZ”

Languages

native language: German
good knowledge of English, French and Italian

Extracurricular activities

For 4 years I was responsible as lay-preacher for a congregation of 500 people.

Interests and activities

Philosophy, Literature, Sports