

Silke Pichler

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CURRENT EMPLOYMENTS

Personal Training at Fitness Agents, Cambridge

Professional and Elite Triathlete, Marathon and Half-Marathon runner 2004-present

Austrian Triathlon Association (OETRV), Austria. Sponsors: BlueSeventy, Bont (until December 2012), GU, Ironman, Cannondale, Ironman Institute Triangle Austria, Ironman UK, Ironman Switzerland, Ironman Hawaii and Ironman Florida.

Sport Journalist and Commentator of Triathlon website Ironman.com - 2010-present

Social worker for Jark Agency, Cambridge, UK

EDUCATION

2013: Postural Analysis and Corrective Exercise Trainer

2013: Suspended Movement Trainer

2012: Special Populations Trainer

2011: CYQ3 Diploma in Personal Training in Soho gyms Training academy

1997-2001: PhD. studies in Biochemistry and in Molecular Cell Biology

The PhD research was a joint project performed in the laboratories of Prof. Dr. Anthony A. Hyman, European Molecular Biology Laboratory (EMBL) and Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG), Germany and Prof. Dr. Anne Ephrussi, European Molecular Biology Laboratory (EMBL), Germany. The Ph.D. thesis was completed with highest distinction. Ph.D. Thesis title: Studies on the establishment of Polarity and Spindle Orientation in the early *C. elegans* embryo.

1991-1997: Diplom-studies in Chemistry/Biochemistry

The diploma was completed with highest distinction.

1995-1997: Diploma thesis in Biochemistry and Genetics

The diploma research was conducted in the laboratory of Prof. Dr. Kim Nasmyth, Institute of Molecular Pathology, Vienna Biocenter, Austria. Diploma thesis title: The role of the Anaphase Promoting Complex in the regulation of DNA replication in the yeast *Saccharomyces cerevisiae*.

1983-1991: High School

Bundes- und Bundesrealgymnasium Völkermarkt, Austria. High school was completed with highest distinction. Matura in German (1), English (1), English literature (1), French (1), Latin (1), Mathematics (1), Physics (1), Chemistry (1), Informatics (1), Geography (1), History (1), Arts (1), Music (1), Sports (1), Psychology (1), Philosophy and Politics (1).

RESEARCH EXPERIENCE

2006-2009: Staff scientist

Project title: bicoid dependent morphogenesis and nuclear distribution in syncytial blastoderm embryos of *Drosophila melanogaster*. Department of Genetics, Cambridge University, UK.

2002-2006: Postdoctoral Scientist

Project title: bicoid dependent morphogenesis and nuclear distribution in syncytial blastoderm embryos of *Drosophila melanogaster*. Department of Genetics, Cambridge University, UK. Supervisor: Prof. Dr. David M. Glover, and Department of Molecular Biology, Princeton University, USA. Supervisor: Prof. Dr. Eric F. Wieschaus.

TEACHING EXPERIENCE

2009: Invigilator of the University of Cambridge.

2008: Examiner in Biology of Cells of the University of Cambridge.

2004-2009: Supervisor

Supervisions are undertaken in groups of two to three students to discuss lecture material and provide supplementary information of the subject to the students. Students have to write essays and answer short-answer questions, which have to be marked by the supervisor as exam preparation. The supervisor needs to write term-reports grading the homework and the performance of students during supervisions. The supervision report contributes to the final mark of the students in this subject.

Cell and Developmental Biology second year biology course

Biology of Cells Course first year biology course

2007-2009: Biomedical Admission Test Assessor

In these assessments the admission tests of students applying to Cambridge University Medical school are critically read and marked in teams. Cambridge Assessment. Cambridge University, UK.

2007-2009: Demonstrator

Practicals are supported by demonstrators who have to assist students in their experiments, solve technical problems and assess the theoretical background knowledge of the students.

Biology of Cells first year biology course:

Biology of Cells Practical, Cambridge University, UK.

Biochemistry first year medical course:

Biochemistry Practical, Cambridge University, UK.

2004: Graduate student tutor

The subject of the nine-week-rotation project was 'Effect of Aurora inhibitors on mitosis in syncytial blastoderm Drosophila embryos'. The University of Cambridge Four-Year PhD programme, Department of Genetics, Cambridge University, UK (2004).

2002-2003: Graduate student tutor

The title of the supervisions were 'Caenorhabditis elegans development'. Department of Molecular Biology, Princeton University, USA.

2002: Lecturing

Research Discussion Group Leader: The subject of the lecture were 'Oral presentations in Biology'. Department of Molecular Biology, Princeton University, USA. Junior-level Scientific

Reading Course Instructor: The subject of the lecture was 'The relevance of Drosophila melanogaster in Cancer Research'. Department of Molecular Biology, Princeton University, USA.

WRITING EXPERIENCE

2007: Scientific writer for EMBL alumni organization (see Appendix

2008: Scientific writer and editor for Cambridge BlueSci (see Appendix 1)

SCHOLARSHIPS AND FELLOWSHIPS

2005: Youth travel fellowship of the Federation of European Biochemical Society _

2003-2006: Postdoctoral fellowship of the Austrian Program of Advanced Research and Technology of the Austrian Academy of Sciences (120 000.00 Euro)

2003-2004: Long-term postdoctoral fellowship of the European Molecular Biology Organization (EMBO)

2002: Postdoctoral Fellowship of the Howard Hughes Medical Institute, USA

2001: Predoctoral Fellowship of the Max Planck Institute, Germany

1997-2001: Predoctoral Fellowship of the European Molecular Biology Laboratory (EMBL)

1994-1997: Diploma Fellowship of the Vienna Biocenter, Austria

HONORS AWARDS AND MEMBERSHIPS

2003-present: Alumni of the Austrian Academy of Sciences, Austria
2003-present: Alumni of Fitzwilliam College and Cambridge University, UK for athletic achievements
2005-2009: Member of the Austrian Society of Biochemistry and Molecular Biology
2002: Representative of Postdoctoral Association of Princeton University and AAA member
1997-2009: Member of the American Society of Cell Biology
2002-2009: Member of the Genetics Society of America (GSA)
2002-2009: Member of the European Molecular Biology Organization (EMBO)
2005-2009: Head of local branch of EMBL alumni association in Austria
1997-present: European Molecular Biology Laboratory (EMBL) Alumnus.
1993-1996 Stipend of the University of Vienna for excellent grades

SCIENTIFIC SPECIALIST SKILLS

- *Drosophila melanogaster*: Keeping, handling and genetic manipulation of *D. melanogaster*, Immunohistochemistry, Confocal Microscopy and Live Imaging using Fluorescence Confocal and Spinning Disk Confocal Microscopy, Microinjection.
- Bacteriology/Virology: Molecular Biology, Protein expression and purification by HPLC
- Mammalian cell culture system: Keeping, handling and manipulation of mammalian cell cultures, Immunobiochemistry
- *Saccharomyces cerevisiae*: Keeping, handling and genetic manipulation of *S. cerevisiae*, growing and radioactive labelling of yeast in liquid culture, Immunohistochemistry, Fluorescence microscopy, Molecular Biology
- *Caenorhabditis elegans*: Keeping, handling and genetic manipulation of *C. elegans*, Microinjection of *C. elegans*, Immunohistochemistry, Confocal Microscopy and Live-Imaging using Nomarski Microscopy and Fluorescence Deltavision Microscopy, Molecular Biology.
- Computational analysis in Structural Biology, Functional Genomics and Genome Informatics as part of an MPhil course in Computational Biology, Center for Mathematical Sciences, Cambridge University, UK.
- Accounting, Microeconomics, Leadership, Marketing, Strategy as part of an MPhil course in Computational Biology, Cambridge-MIT Institute, Cambridge University, UK.

COURSES

- 2005/2006: Computational analysis in Structural Biology, Functional Genomics and Genome Informatics, Marketing, Microeconomics, Strategy, Accounting, Leadership (Modules of MPhil course in Computational Biology), Cambridge-MIT Institute, Cambridge University, UK.
- 2005: Data protection. Staff Development, Cambridge University, UK.
- 2005: Dreamweaver. Staff Development, Cambridge University, UK.
- 2005: Web authoring: Introduction into HTML (I+II). Staff Development, Cambridge University, UK.
- 2005: CV analysis course. Staff Development, Cambridge University, UK.
- 2005: Unix course. Staff Development, Cambridge University, UK.
- 2005: Vi editor course. Staff Development, Cambridge University, UK.
- 2005: C++ course. Staff Development, Cambridge University, UK.
- 2005: Photoshop course. Staff Development, Cambridge University, UK.
- 2005: Securing the next position: Interview technique. Staff Development, Cambridge University, UK.
- 2005: Communication Skills: Handling difficult people. Staff Development, Cambridge University, UK.
- 2005: Communication skills: Voice & Presentation (I+II). Staff Development, Cambridge University, UK.
- 2005: Communication skills: Are you receiving me? Staff Development, Cambridge University, UK.
- 2005: Supervision graduate students (3 courses). Staff Development, Cambridge University, UK.
- 2004: Supervising undergraduates more efficiently. Staff Development, Cambridge University, UK.
- 2004: Being a good mentor. Staff Development, Cambridge University, UK.
- 2004: Project Management Course. Staff Development, Cambridge University, UK.
- 2004: Artemis Introductory Course. Cambridge University, UK.
- 2004: Confocal microscopy workshop. Cambridge University, UK.
- 2001: Perl Programming Course. Princeton University, UK.
- 1999: Genome sequence analysis course. European Molecular Biology Laboratory, UK.

PUBLICATIONS

See Appendix 1

CONFERENCE AND MEETING ABSTRACTS

See Appendix 2

INVITED SPEAKING ENGAGEMENTS

See Appendix 3

ADDITIONAL PROFESSIONS / ATHLETICS

Full-time professional and ELITE triathlete, duathlete and marathon runner of the Austrian National team (see Appendix 4)

Languages: German and English (fully bilingual), Latin, French (moderate conversation level), Spanish (moderate conversation level).

Work experience: As social leader I organized guided tours of English language students and taught them about the history of Cambridge, Ely, London, Oxford, Stratford, Warwick, Windsor, Blenheim. I also organized social events (e.g. preparation of shows) and sports classes (e.g. swimming, running).

Social leader for the English language school EC, Cambridge, UK, 2007.

Social leader for the English language school Cambridge Language Center, Cambridge, UK, 2008.

Activities Coordinator in 'Language and Activity Programme', Studio School Cambridge June 2009.

Support Worker for charity Scope 'Achieving equality for children with cerebral palsy'

Meldreth Manor School, Royston. May 2009-June 2010.

Traveling for Studying and Athletics: Austria, Germany, Switzerland, Italy, Yugoslavia, Hungary,

France, Monaco, Portugal, Spain, UK, USA, Canada, South Africa.

REFERENCES

See Appendix 5