

BRIGITTE PERTSCHY

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PERSONAL INFORMATION

- Date of birth: 10.11.1976
- Place of birth: Graz
- Citizenship: Austrian

ACADMIC QUALIFICATIONS

- 2014: Habilitation (lecture qualification) in Biochemistry and Molecular Biology
- 2001-2005: PhD training at the Institute of Molecular Biosciences at the University of Graz
- 1995-2001: studies in Microbiology at the Karl-Franzens-University Graz

PROFESSIONAL EXPERIENCE

- since April 2016: Senior Postdoctoral position at the IMB Graz, funded by the FWF
- February 2013 to April 2016: Elise Richter independent senior postdoctoral position at the IMB Graz, funded by the FWF
- April 2012 until January 2013: Senior Postdoctoral position at the IMB Graz, funded by the FWF.
- Since 2011: own research group at the IMB Graz. Currently, the group is composed of one Postdoc, one PhD student and one master student. Our main research foci are the identification and characterization of chaperones, importins and assembly factors of ribosomal proteins and the investigation of late steps in 40S maturation.
- April 2009 to March 2012: Independent postdoctoral researcher (Hertha Firnberg position, funded by the FWF) at the IMB Graz. Investigation of aspects of 40S subunit maturation, including characterization of the function of the RNA helicase Prp43 in ribosome biogenesis and characterization of the interaction between Yar1 and Rps3.
- November 2005 to March 2009: Postdoctoral researcher in the group of Ed Hurt, BZH Heidelberg. Participation in characterization of the roles of the AAA-proteins Rix7 and Rea1 in pre-60S maturation. Investigation of cytoplasmic steps of 40S ribosomal subunit formation.
- September 2001 to July 2005: PhD in the group of Gregor Högenauer and Helmut Bergler, IMB, Graz. Investigation of the effects of diazaborine on 60S ribosomal subunit biogenesis. Examination of the function of Drg1 in cytoplasmic steps of 60S biogenesis.
- January 2000 to January 2001: Master thesis supervised by Gregor Högenauer, Institut für Mikrobiologie, Graz. Examination of the mRNA stability of selected mRNAs in a *drg1*-mutant strain; analysis of mRNA expression in diazaborine treated cells.

- February 1999 to August 1999: semester at the University of Queensland, Brisbane, Australia. Participation in a project to identify novel members of the bacterial family TM7; in the group of Linda Blackall
- December 1998 to January 1999: participation in a project concerned with fatty acid biosynthesis in *E. coli*; in the group of Friederike Turnowsky, Institut für Mikrobiologie, Graz

AWARDS AND FELLOWSHIPS

- 2013-2016: Elise Richter Senior Postdoctoral Fellowship, funded by the Austrian Science Fund (FWF)
- 2009-2012: Hertha Firnberg Postdoctoral Fellowship, funded by the Austrian Science Fund (FWF)
- 2006 to 2008: Erwin Schrödinger Fellowship Abroad, funded by the Austrian Science Fund (FWF)
- July 2004: ÖGGGT Research Prize for Young Scientists, awarded by the Austrian Society for Genetics and Gene Technology (ÖGGGT)

FUNDED RESEARCH PROJECTS

- since May 2016: FWF stand alone project "Shaping the ribosome - restructuring events in ribosome biogenesis"
- since April 2015: FWF stand alone project "The ribosome assembly path of Rps3"
- April 2012-March 2016: FWF stand alone project "A specific chaperone for the ribosomal protein S3"
- September 2011-February 2015: FWF stand alone project "The function of the ribosomal protein S15 in 40S subunit biogenesis"

REVIEWER ACTIVITY FOR INTERNATIONAL, PEER REVIEWED JOURNALS

- Nature communications
- Nucleic acids research
- RNA

ORAL PRESENTATIONS AT SCIENTIFIC MEETINGS

- Ribosome synthesis meeting 2015 (Brussels), "The ribosome assembly path of Rps3"
- RNP Biogenesis meeting 2013 (Regensburg), "The interaction of ribosomal protein S3 with ankyrin repeat proteins in ribosome biogenesis and extra-ribosomal pathways"
- Ribosome Synthesis meeting 2009 (Regensburg), "RNA helicase Prp43 and its co-factor Pfa1 promote 20S to 18S rRNA processing catalyzed by the D-site specific endonuclease Nob1"
- Award lecture at the 2004 Annual Meeting of the Austrian Society for Genetics and Gene Technology (ÖGGGT; Innsbruck), "Diazaborine treatment of yeast cells inhibits maturation of the 60S ribosomal subunit"

CURRENT INTERNATIONAL COOPERATION PARTNERS

- Nicolas Leulliot, Université Paris Descartes, France
- Dieter Kressler, Unit of Biochemistry, University of Fribourg, Switzerland

SUPERVISION OF STUDENTS, POSTDOCS AND TECHNICAL PERSONNEL

- since February 2016, IMB Graz: Valentin Mitterer, Postdoc
- since December 2015, IMB Graz Ingrid Rössler, PhD student
- since December 2015, IMB Graz: Lisa Kofler, master student
- August 2014, to January 2015, IMB Graz: Mathias Loibl, shared postdoc (together with Helmut Bergler)
- March 2014 to January 2015, IMB Graz: Julia Unterluggauer, master student
- September 2013 to December 2014, IMB Graz: Nadine Gantenbein, master student
- February 2012 to April 2016, IMB Graz: Stefan Unterweger, PhD student
- September 2011 to January 2016, IMB Graz: Valentin Mitterer, PhD student
- September 2011 - June 2014, IMB Graz: Tamsyn Stanborough, master student, then PhD student
- October 2010 to August 2011, IMB Graz: Johannes Niederhauser, master student
- October 2009 to June 2010, IMB Graz: Barbara Koch, master student
- October 2007 to March 2009, BZH Heidelberg: Marén Gnädig, technical assistant
- June to September 2007, BZH Heidelberg: Lorena Vega, PhD student from the University of Salamanca (four months summer practical)
- September 2006 to February 2007, BZH Heidelberg: Yvonne Haag, technician apprentice

TEACHING EXPERIENCE

- Yeast genetics advanced course: taught in 2011, 2012, 2013, 2014, 2015, 2016 (University of Graz)
- Yeast genetics and cell biology lab course: practical course on yeast genetics for master students, taught in 2009, 2010, 2011, 2012, 2013, 2014 and 2015 at the University of Graz
- Molecular biology lab course II: advanced practical course in molecular biology, taught in 2010 at the University of Graz
- Biochemistry laboratory course for medical students, taught in 2006, 2007 and 2008 at the University of Heidelberg
- Practical courses in molecular biology for highly talented high school students, taught in 2001, 2003 and 2005 at the University of Graz
- Microbiology lab course: introductory practical course in microbiology for biology students, taught in 2005 at the University of Graz
- Molecular biology lab course: introductory practical course in molecular biology for biology students, taught in 2003 at the University of Graz
- set up and teaching of a practical course on mRNA expression analysis using DNA microarrays, entitled “Genomics lab course”; taught in 2002, 2003 and 2004 at the University of Graz