



Curriculum Vitae

Personal information **Silke Dorner**

Work experience

1. Employer: Austrian Medicines and Medical Devices Agency
 - Start date: 02/2020
 - End date: present
 - Position: Assessor
 - Activities: Quality Assessment of biologics including advanced therapy medicinal products (ATMPs) in clinical trials, central procedures and scientific advice (national and EMA), Assessment of IVD performance studies in clinical trials.
 - Country: Austria
2. Employer: Austrian Medicines and Medical Devices Agency
 - Start date: 12/2015
 - End date: 04/2021
 - Position: Inspector
 - Activities: Inspection of blood, tissue and cell establishments including ART
 - Country: Austria
3. Employer: Max F. Perutz Laboratories, University of Vienna, Department of Microbiology, Immunobiology and Genetics
 - Start date: 01/2008
 - End date: 12/2016
 - Position: Group Leader
 - Activities: Basic research: RNA Biology _ post_transcriptional gene silencing (miRNA and siRNA pathways), mRNA degradation, translation regulation, NGS Sequencing, genome editing (CRISPR) Training and supervision of PhD and master students
 - Country: Austria
4. Employer: Max Plank Institute, Institute of Developmental Biology, Department of Biochemistry
 - Start date: 07/2006
 - End date: 12/2007
 - Position: Senior Postdoctoral Fellow
 - Activities: Basic research: RNA Biology _ post_transcriptional gene silencing (miRNA and siRNA pathways), mRNA degradation
 - Country: Germany
5. Employer: Johns Hopkins University, Howard Hughes Medical Institute, Department for Molecular Biology and Genetics
 - Start date: 07/2002
 - End date: 06/2006
 - Position: Postdoctoral Fellow
 - Activities: Basic research: RNA Biology _ kinetics of ribosome translation, chemical and fluorescent _ based fast kinetic methods, RNA structural probing, genome_wide RNAi screens
 - Country: United States
6. Employer: University of Vienna, Department of Medical Biochemistry
 - Start date: 06/2000
 - End date: 02/2002
 - Position: Teaching Assistant
 - Activities: Training of medical students
 - Country: Austria

Education and training

1. Subject: Medical University of Vienna
 - Start date: 01/2008
 - End date: 09/2016
 - Qualification: Habilitation / Venia docendi in Biochemistry
 - Organisation: Title: "Translation and the regulation of gene expression"
 - Country: Austria
2. Subject: Quality Austria
 - Start date: 09/2016
 - End date: 12/2016
 - Qualification: Quality System Manager / Auditor
 - Organisation: ISO 9001
 - Country: Austria
3. Subject: University of Vienna
 - Start date: 09/2014
 - End date: 12/2014
 - Qualification: Postgraduate Course: Pharmaceutical Quality Management
 - Organisation:
 - Country: Austria
4. Subject: University of Vienna
 - Start date: 03/1996
 - End date: 06/2002
 - Qualification: Dr. rer. nat. (PhD)
 - Organisation: Department of Medical Biochemistry and Department of Bioorganic Chemistry
 - Title: "Mechanistic studies of the ribosomal peptidyltransferase." Research: Organic Chemistry:

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Chemical synthesis and characterisation of nucleotide analogs RNA Biology: Biochemical assay development, RNA structural probing

• Country: Austria

5. Subject: University of Vienna

• Start date: 10/1991

• End date: 02/1996

• Qualification: Mag. rer. nat (MSc)

• Organisation: Diploma thesis at the Department of Medical Biochemistry Title: "Isolation and Characterisation of a SF2/ASF_like splicing factor from *A. thaliana*."

• Country: Austria

Additional information

Publications

Journal Articles (peer reviewed):

Kaiser, T.S., Poehn, B., Szkiba, D., Preussner, M., Sedlazeck, F.J., Zrim, A., Neumann, T., Nguyen, L.T., Betancourt, A.J., Hummel, T., Vogl, H., Dorner, S., Heyd, F., von Haeseler, A., Tessmar-Raible, K. (2016). The genomic basis of circadian and circalunar timing adaptations in a midge. *Nature*; 540(7631):69_73.

Antic, S., Wolfinger, M.T., Skucha, A., Hosiner, S. and Dorner, S. (2015). General and miRNA mediated mRNA degradation occurs on ribosome complexes in *Drosophila* cells, *Mol Cell Biol.*;35(13):2309_20.

Barisic-Jäger, E., Krecioch, I., Hosiner, S., Antic, S. and Dorner, S. (2013). HPat a decapping activator interacting with the miRNA effector complex. *PLoS One*; 8(8):e71860. Jäger, E. and Dorner, S. (2010). The decapping activator HPat a novel factor co_purifying with GW182 from *Drosophila* cells. *RNA Biol.*;7(3). 381_5.

Eulalio, A., Rehwinke, J., Stricker, M., Huntzinger, E., Yang, S.F., Doerks T., Dorner S., Bork, P., Boutros, M. and Izaurralde, E. (2007). Target_specific requirement for enhancers of decapping in miRNA mediated gene silencing, *Genes and Development* 21, 2558_70. Dorner

S., Lum, L., Kim, M., Paro, R., Beachy, P.A., and Green, R. (2006). A genome wide screen for components of the RNAi pathway in *Drosophila* cultured cells, *Proc Natl Acad Sci USA*. 103, 11880_5.

Dorner, S., Brunelle, J.L., Sharma, D., and Green, R. (2006). The hybrid state of tRNA binding is an authentic translation elongation intermediate, *Nat. Struc. Mol. Biol.* 13, 234_41.

Dorner, S., Schmid, W., and Barta, A. (2005). Activity of 3'_thioAMP derivatives as ribosomal P_site substrates, *Nucleic Acids Res.* 33, 3065_71. Weininger, J.S., Parnell, K.M., Dorner, S., Green, R., and Strobel, S.A. (2004). Substrate assisted catalysis of peptide bond formation by the ribosome. *Nat. Struc. Mol. Biol.* 11, 1101_06.

Dorner, S., Panuschka, C., Schmid, W., and Barta, A. (2003). Mononucleotide derivatives as ribosomal P_site substrates reveal an important contribution of the 2'_OH to activity. *Nucleic Acids Res.* 31, 6536_42.

Dorner, S., Polacek, N., Schulmeister, U., Panuschka, C. and Barta, A. (2002). Molecular aspects of the ribosomal peptidyl transferase, *Biochem Soc Trans.*30, 1131_36.

Kählig, H., Dietrich, K., and Dorner, S. (2002). Analysis of Carbohydrate Mixtures by Diffusion Difference NMR Spectroscopy, *Monatsh. Chem., (Chemical Monthly)*, 133, 589_98.

Bayfield, M.A., Dahlberg, A.E., Schulmeister, U., Dorner, S. and Barta, A. (2001). A conformational change in the ribosomal peptidyl transferase center upon active/inactive transition, *PNAS*, 98, 10096-101.

Lopato, S., Kalyna, M., Dorner, S., Kobayashi, R., Krainer, A.R. and Barta, A. (1999). atSRp30, one of two SF2/ASF_like proteins from *A. thaliana*, regulates splicing of specific plant genes, *Genes and Development* 13, 987_1001.

Dorner, S. and Barta, A. (1999). Probing Ribosome Structure by Europium Induced RNA Cleavage, *Biol. Chem.* 380, 243-51.

Projects

Principle Investigator (Basic research):

2012 – 2016 Austrian Science Fund (FWF P 23884) "Co_translational mRNA degradation in *Drosophila* cells."

2010 – 2015 Austrian Science Fund (FWF P 22124) "The influence of miRNAs on mRNA degradation."

2010 – 2014 Vienna Science and Technology Fund (WWTF LS09_044) "The dynamics of the miRNA effector complex."

2009 – 2014 Austrian Science Fund (FWF P 21488) "RNAs and Proteins associated with P_body components."

2009 – 2012 Austrian Ministry of Science and Technology "Identification of translationally repressed miRNA targets." _subproject in the consortium "Non coding RNAs: from identification to functional characterization (ncRNA)" in the Austrian Genome Research Program GEN_AU

2008 – 2011 Austrian Science Fund, Career Development Grant (FWF V 63, Elise_Richter Fellowship): "The regulation of gene expression by small non_coding RNAs"

2002 – 2004 Austrian Science Fund, Post_doctoral Fellowship (FWF J 2172, Erwin_Schrödinger Fellowship) "Structural dynamics of translating ribosomes"

Memberships

EMA CAT Committee for Advanced Therapie AT Member since 03/2023

EMA CAT Committee for Advanced Therapie AT Alternate 04/2020 - 02/2023

Other Relevant Information