



## Curriculum Vitae

Personal information **Silke Dorner**

### Work experience

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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 medical assisted reproduction
  - 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

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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: 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 genomewide 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