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Rospert, Sabine

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Academic education including academic degrees

- 1988 – 1991 Doctoral research, Philipps University Marburg, supervised by Prof. Dr. R.K. Thauer
- 1982 – 1988 Study of Chemistry and Biology, University of Marburg

Scientific graduation

- 1998 Habilitation in Biochemistry, University of Basel, Department of Prof. Dr. G. Schatz
- 1991 Dr. rer. nat., Philipps University Marburg, supervised by Prof. Dr. R.K. Thauer
- 1988 Staatsexamen Chemistry and Biology, Philipps University Marburg, supervised by Prof. Dr. W. Buckel

Employment

- Since 2005 Full professor (W3), Institute of Biochemistry and Molecular Biology, University of Freiburg
- 2003 – 2004 Associate Professor (C3), Institute of Biochemistry and Molecular Biology, University of Freiburg
- 1999 – 2003 Head of an independent junior research group at the MPI 'Enzymology of protein folding', Halle/Saale
- 1997 – 1998 Independent research associate at the Biocenter, University of Basel, Switzerland
- 1992 – 1996 Postdoctoral fellow, Biocenter, University of Basel, Switzerland, Department of Prof. Dr. G. Schatz
- 1991 – 1992 Postdoctoral fellow, Philipps University Marburg, Department of Prof. Dr. R.K. Thauer

Other activities, awards and honors

- 2022 - present Member of the "Kommission für Verantwortung in der Forschung", University of Freiburg
- 2021 - present Member of the "Studienkommission" of the Medical Faculty, Freiburg
- 2009 - present Member of the "Research Board" (FoKo) of the Medical Faculty, Freiburg
- 2003 - present Member of SFB388 (2003 -2006), SFB746 (2006 - 2018), SFB1381 (2019 -present)
- 2007 - 2018 Principal Investigator BIOS Centre for Biological Signalling Studies
- 2008 - 2017 Steering committee of the excellence cluster BIOS
- 2007- 2012 Executive board of the Spemann Graduate School of Biology and Medicine (SGBM)
- 2008 - 2010 Executive board of the IMPRS-MCB Graduate School, MPI Freiburg
- 2002 - 2010 Advisory Board, Österreichisches Genomforschungsprogramm, GEN-AU
- 2005 - 2009 Selection committee for PhD fellowships of the DAAD
- 2003 Offer for a full professorship (C4) in Halle/Saale, declined
- 1992-1994 EMBO long term fellowship

Selected publications

(CIBSS member since March 2022, * CIBSS publications, CIBSS members indicated in blue)

in revision

* Zhang, Y., Grundmann, L., Vollmar, L., Schimprf, J., Hübscher, V., Areeb, M., Grishkovskaya, I., Moddemann, A., Werner, K., [Hugel, T.](#), Haselbach, D. and [Rospert, S.](#) (2025) The cotranslational cycle of the ribosome-bound Hsp70 homolog Ssb. *Nat. Commun.*, *resubmitted after revision*.

2017 - 2025

* Scazzari, M., Zhang, Y., Moddemann, A. and [Rospert, S.](#) (2025) Stalled disomes marked by Hel2-dependent ubiquitin chains undergo Ubp2/Ubp3-mediated deubiquitination upon translational run-off. *Commun Biol*, 8, 132.

* Deprez, M.A., Caligaris, M., Rosseels, J., Hatakeyama, R., Ghillebert, R., Sampaio-Marques, B., Mudholkar, K., Eskes, E., Meert, E., Ungermann, C., Ludovico, P., [Rospert, S.](#), De Virgilio, C. and Winderickx, J. (2023) The nutrient-responsive CDK Pho85 primes the Sch9 kinase for its activation by TORC1. *PLoS Genet*, 19, e1010641.

* Caligaris, M., Nicastro, R., Hu, Z., Tripodi, F., Hummel, J.E., Pillet, B., Deprez, M.A., Winderickx, J., [Rospert, S.](#), Coccetti, P., Dengjel, J. and De Virgilio, C. (2023) Snf1/AMPK fine-tunes TORC1 signaling in response to glucose starvation. *Elife*, 12.

Zhang, Y., De Laurentiis, E., Bohnsack, K.E., Wahlig, M., Ranjan, N., Gruseck, S., Hackert, P., Wölfle, T., Rodnina, M.V., Schwappach, B. and [Rospert, S.](#) (2021) Ribosome-bound Get4/5 facilitates the capture of tail-anchored proteins by Sgt2 in yeast. *Nat. Commun.*, 12, 782.

* Dannenmaier, S., Desroches Altamirano, C., Schuler, L., Zhang, Y., Hummel, J., Milanov, M., Oeljeklaus, S., Koch, H.G., [Rospert, S.](#), Alberti, S. and [Warscheid, B.](#) (2021) Quantitative proteomics identifies the universally conserved ATPase Ola1p as a positive regulator of heat shock response in *Saccharomyces cerevisiae*. *J. Biol. Chem.*, 101050.

Zhang, Y., Valentin Gese, G., Conz, C., Lapouge, K., Kopp, J., Wölfle, T., [Rospert, S.](#) and Sinning, I. (2020) The ribosome-associated complex RAC serves in a relay that directs nascent chains to Ssb. *Nat. Commun.*, 11, 1504.

Puleston, D.J., Buck, M.D., Klein Geltink, R.I., Kyle, R.L., Caputa, G., O'Sullivan, D., Cameron, A.M., Castoldi, A., Musa, Y., Kabat, A.M., Zhang, Y., Flachsmann, L.J., Field, C.S., Patterson, A.E., Scherer, S., Alfei, F., Baixauli, F., Austin, S.K., Kelly, B., Matsushita, M., Curtis, J.D., Grzes, K.M., Villa, M., Corrado, M., Sanin, D.E., Qiu, J., Pallman, N., Paz, K., Maccari, M.E., Blazar, B.R., Mittler, G., Buescher, J.M., Zehn, D., [Rospert, S.](#), Pearce, E.J., Balabanov, S. and Pearce, E.L. (2019) Polyamines and eIF5A Hypusination Modulate Mitochondrial Respiration and Macrophage Activation. *Cell Metab.*, 30, 352-363 e358.

Gribling-Burrer, A.S., Chiabudini, M., Zhang, Y., Qiu, Z., Scazzari, M., Wölfle, T., Wohlwend, D. and [Rospert, S.](#) (2019) A dual role of the ribosome-bound chaperones RAC/Ssb in maintaining the fidelity of translation termination. *Nucleic Acids Res.*, 7018-7034.

Zhang, Y., Sinning, I. and [Rospert, S.](#) (2017) Two chaperones locked in an embrace: Structure and function of the ribosome-associated complex RAC. *Nat. Struct. Mol. Biol.*, 24, 611-619.

Mudholkar, K., Fitzke, E., Prinz, C., Mayer, M.P. and [Rospert, S.](#) (2017) The Hsp70 homolog Ssb affects ribosome biogenesis via the TORC1-Sch9 signaling pathway. *Nat. Commun.*, 8, 1-14.