

Prof. Dr. Oliver EINSLE

Professor of Biochemistry (W3)

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born: November 8, 1970
nationality: German
children: 1 daughter (age 10)

Scientific Education

1991-1996 Studies of Biology (Diploma); University of Konstanz; Supervisor: Prof. Peter Kroneck

Academic Degrees

2002 Promotion (Biochemistry and Biophysics); University of Konstanz and Max-Planck-Institute for Biochemistry, Martinsried; advisors: Prof. Peter Kroneck, Prof. Robert Huber

Professional Experience

since 2008 Full professor and Chair of Biochemistry (W3); University of Freiburg
2003–2008 Junior professor for Protein Crystallography (W1); University of Göttingen
2001–2002 Postdoctoral Fellow (Howard-Hughes Medical Institute); California Institute of Technology, Pasadena, USA, with Prof. Douglas Rees
2000–2001 Postdoctoral Fellow; Max-Planck-Institute for Biochemistry, Martinsried, with Prof. Robert Huber

Honors, Awards and Scholarships

2015 Senior Fellow, Freiburg Research Institute for Advanced Studies (FRIAS)
2013 Johann Griess Lectureship, Royal Society of Chemistry, East Midlands Section
2013 Early Career Award, Society for Biological Inorganic Chemistry (SBIC)
2012 ERC Starting Grant
2011 Senior Fellow, Freiburg Research Institute for Advanced Studies (FRIAS)
2005 EMBO Young Investigator
2001 Byk Award, Herbert-von-Quandt Foundation, Altana AG
2001 Doctoral Award of the Society for General and Applied Microbiology (VAAM)

Other Scientific Activities

since 2018 Dean of the Faculty for Chemistry and Pharmacy, University of Freiburg
2018 Organizer, “7th Murnau Conference on Structural Biology”
since 2016 Elected Council Member, Society for Biological Inorganic Chemistry
2016 Organizer, “6th Murnau Conference on Structural Biology”
2012–2015 Speaker of the study group “Structural Biology” of the Society for Biochemistry and Molecular Biology (GBM)
2012–2015 Associate editor, *Biological Chemistry*

2012–2018	Vice dean of the faculty for Chemistry and Pharmacy, University of Freiburg
2014	Organizer, “5 th Murnau Conference on Structural Biology”
2013	Co-organizer, “27 th Rhine–Knee–Meeting on Biocrystallography”
2012	Organization Committee, “17 th European Bioenergetics Conference”
2006	Organization Committee, “9 th Heart of Europe Meeting on Biocrystallography”
2003	Organization Committee, “International Symposium on Copper in Biology”
concurrent	Reviewer duties for various journals, incl. <i>Nature</i> , <i>Science</i> , <i>PNAS</i> , <i>Nat. Comm.</i> , <i>J. Biol. Chem.</i> , <i>J. Mol. Biol.</i> , <i>EMBO J.</i> , <i>Nat. Struct. Mol. Biol.</i> ; Ad-hoc reviewer for the German–Israeli Foundation (GIF), German Academic Exchange Service (DAAD), Alexander–von–Humboldt–Foundation (AvH), Deutsche Forschungsgemeinschaft (DFG), European Molecular Biology Organization (EMBO), Max–Planck–Gesellschaft (MPG), Fundação para a Ciência e a Tecnologia (FCT), Schweizer Nationalfonds (SNF), Fonds zur Förderung der wissenschaftlichen Forschung (FWF), Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO), Agence Nationale de la Recherche (ANR)

Publications

Peer-reviewed publications and reviews

Sippel, D., Rohde, M., Netzer, J., Trncik, C., Gies, J., Grunau, K., Djurdjevic, I., Decamps, L., Andrade, S.L.A. & Einsle, O. (2018) A bound reaction intermediate sheds light on the mechanism of nitrogenase. **Science**, 359, 1484-1489.

Hermann, B., Kern, M., La Pietra, L., Simon, J. & Einsle, O. (2015) The octahaem MccA is a haem c–copper sulfite reductase. **Nature**, 520, 706-709.

Spatzal, T., Perez, K.A., Einsle, O., Howard, J.B. & Rees, D.C. (2014) Ligand binding to the FeMo-cofactor: Structures of CO-bound and reactivated nitrogenase. **Science**, 345, 1620-1623.

Spatzal, T., Aksoyoğlu, M., Zhang, L., Andrade, S.L.A., Schleicher, E., Weber, S., Rees, D.C. & Einsle, O. (2011) Evidence for Interstitial Carbon in Nitrogenase FeMo Cofactor. **Science**, 334, 940.

Du, J., Say, R.F., Lü, W., Fuchs, G. & Einsle, O. (2011) Active site remodeling in the bifunctional fructose-6-bisphosphate aldolase/phosphatase. **Nature**, 478, 534-537.

Pomowski, A., Zumft, W.G., Kroneck, P.M.H. & Einsle, O. (2011) N₂O binding at a [4Cu:2S] copper-sulphur cluster in nitrous oxide reductase. **Nature**, 477, 234-237.

Lü, W., Du, J., Wacker, T., Gerbig-Smentek, E., Andrade, S.L.A. & Einsle, O. (2011) pH-dependent gating in a FocA formate channel. **Science**, 332, 352-354.

Einsle, O., Tezcan, F. A., Andrade, S. L., Schmid, B., Yoshida, M., Howard, J. B. & Rees, D. C. (2002) Nitrogenase MoFe protein at 1.16 Å resolution: A central ligand in the FeMo cofactor. **Science**, 297, 1696-1700.

Schmid, B., Ribbe, M. W., Einsle, O., Yoshida, M., Thomas, L. M., Rees, D. C. & Burgess, B. K. (2002) Implications for metalloprotein assembly from the structure of a FeMo cofactor deficient nitrogenase MoFe protein. **Science**, 296, 352-356.

Einsle, O., Messerschmidt, A., Stach, P., Bourenkov, G. P., Bartunik, H. D., Huber, R. & Kroneck, P. M. H. (1999) Structure of cytochrome c nitrite reductase. **Nature**, 400, 476-480.

Patents

Lucas, X., Wohlwend, D., Gerhardt, S., Einsle, O., Jung, M., Schüle, R & Günther, S. (2014) Compounds for use as bromodomain inhibitors. WO/2014/170350.