

Publication List – Thomas Monecke

* shared authorships; # corresponding authorship

17. Gorelik, T.E., Tehrani, K.H.M.E., Grüne, T.*, **Monecke, T.***, Niessing, D., Kaiser, U., Blankenfeldt, W., Müller, R. (2022) Crystal structure of natural product argyirin-D determined by 3D electron diffraction. *CrystEngComm*, 24, 5885-5889.
16. Zingrebe, J., Moepps, B., **Monecke, T.**, Gierschik, P., Schlichtig, F., Barth, T.F.E., Strauß, G., Boldrin, E., Posovszky, C., Schulz, A., Beringer, O., Rieser, E., Jacobsen, E.M., Lorenz, M.R., Schwarz, K., Pannicke, U., Walczak, H., Niessing, D., Schuetz, C., Fischer-Posovszky, P., Debatin, K.M. (2022) Compound heterozygous variants in OTULIN are associated with fulminant atypical late-onset ORAS. *EMBO Mol Med*, 14(3), e14901.
15. Behrens, G., Edelmann, S.L., Raj, T., Kronbeck, N., **Monecke, T.**, Davydova, E., Wong, E.H., Kifinger, L., Giesert, F., Kirmaier, M.E., Hohn, C., de Jonge, L.S., Pisfil, M.G., Fu, M., Theurich, S., Feske, S., Kawakami, N., Wurst, W., Niessing, D., Heissmeyer, V. (2021) Disrupting Roquin-1 interaction with Regnase-1 induces autoimmunity and enhances antitumor responses. *Nat Immunol*, 22(12), 1563-1576.
14. Netz, E., Dijkstra, T.M.H., Sachsenberg, T., Zimmermann, L., Walzer, M., **Monecke, T.**, Ficner, R., Dybkov, O., Urlaub, H. and Kohlbacher, O. (2020) OpenPepXL: An open-source tool for sensitive identification of cross-linked peptides in XL-MS. *Mol Cell Proteomics*, 19(12), 2157-2168.
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12. Port, S.A.*, **Monecke, T.***, Dickmanns, A., Spillner, C., Hofele, R., Urlaub, H., Ficner, R., Kehlenbach, R. (2015) Structural and functional characterization of CRM1-Nup214 interactions reveals multiple FG-binding sites involved in nuclear export. *Cell Rep*, 13(4), 690-702.
11. Dickmanns, A., **Monecke, T.**, Ficner, R. (2015) Structural Basis of Targeting the Exportin CRM1 in Cancer. *Cells*, 4(3), 538-568.
10. **Monecke, T.**, Dickmanns, A., Ficner, R. (2014) Allosteric control of the exportin CRM1 unraveled by crystal structure analysis. *FEBS J*, 281(18), 4179-4194.
9. Liu, Y., Neumann, P., Kuhle, B., **Monecke, T.**, Schell, S., Chari, A., Ficner, R. (2014) Translation initiation factor eIF3b contains a nine-bladed β -propeller and interacts with the 40S ribosomal subunit. *Structure*, 22(6), 923-930.
8. **Monecke, T.#**, Buschmann, J., Neumann, P., Wahle, E., Ficner, R. (2014) Crystal Structures of the Novel Cytosolic 5'-Nucleotidase IIIIB Explain Its Preference for m^7 GMP. *PLoS ONE*, 9(3), e90915.
7. Dölker, N., Blanchet, C.E., Voß, B., Haselbach, D., Kappel, C., **Monecke, T.**, Svergun, D., Stark, H., Ficner, R., Zachariae, U., Grubmüller, H., Dickmanns, A. (2013) Structural Determinants and Mechanism of Mammalian CRM1 Allostery. *Structure*, 21(8), 1350-1360.
6. **Monecke, T.**, Haselbach, D., Voß, B., Russek, A., Neumann, P., Thomson, E., Hurt, E., Zachariae, U., Stark, H., Grubmüller, H., Dickmanns, A., Ficner, R. (2013) Structural basis for cooperativity of CRM1 export complex formation. *Proc Natl Acad Sci USA*, 110(3), 960-965.

5. Güttler, T., Madl, T., Neumann, P., Deichsel, D., Corsini, L., **Monecke, T.**, Ficner, R., Sattler, M., Görlich, D. **(2010)** NES consensus redefined by structures of PKI-type and Rev-type nuclear export signals bound to CRM1.
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4. **Monecke, T.***, Güttler, T.*, Neumann, P., Dickmanns, A., Görlich, D., Ficner, R. **(2009)** Crystal structure of the nuclear export receptor CRM1 in complex with Snurportin1 and RanGTP.
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3. **Monecke, T.**, Dickmanns, A., Ficner, R. **(2009)** Structural basis for m⁷G-cap hypermethylation of small nuclear, small nucleolar and telomerase RNA by the dimethyltransferase TGS1.
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