

Publication List – Dr. Thomas Monecke

* shared first authorship; # corresponding authorship

22. Gaber, T.*, **Monecke, T.***, Grabowski, J., Simon, B., Williams, T., Roman, V., Chao, J., Hennig, J., Ephrussi, A., Niessing, D., Heber, S. (2025) A direct interaction between the RNA-binding proteins Staufen and Tm1-l/C in the oskar mRNA transport complex. *Cell Rep*, 44(7), 1-13.
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<https://doi.org/10.1093/nar/gkae1107>
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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 argyri-D determined by 3D electron diffraction. *CrystEngComm*, 24, 5885-5889.
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16. Zinngrebe, 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.
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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.
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13. **Monecke, T.**, Dickmanns, A., Weiss, M.S., Port, S.A., Kehlenbach, R.H., Ficner, R. (2015) Combining dehydration, construct optimization and improved data collection to solve the crystal structure of a CRM1-RanGTP-SPN1-Nup214 quaternary nuclear export complex.
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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.
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8. **Monecke, T.**[#], Buschmann, J., Neumann, P., Wahle, E., Ficner, R. (2014) Crystal Structures of the Novel Cytosolic 5'-Nucleotidase IIIB Explain Its Preference for m⁷GMP.
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2. **Monecke, T.**, Dickmanns, A., Strasser, A., Ficner, R. (2009) Structure analysis of the conserved methyltransferase domain of human trimethylguanosine synthase TGS1.
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