

Publications: >280 peer reviewed publications; h-index 79; 30 review articles; 4 patents; 15 editorials; 8 book articles

- 1) Sánchez MF, Dietz MS, Müller U, Weghuber J, Gatterdam K, Wieneke R, Heilemann M, Lanzerstorfer P, Tampé R (2022) Dynamic in situ confinement triggers ligand-free neuropeptide receptor signaling. *Nano Letters*, in press. [doi:10.1021/acs.nanolett.2c03506](https://doi.org/10.1021/acs.nanolett.2c03506)
- 2) Winter C, Domnick A, Cernova D, Tampé R (2022) Semisynthetic viral inhibitor for light control of the MHC I peptide loading complex. *Angew Chem Int Ed* e202211826. [doi:10.1002/anie.202211826](https://doi.org/10.1002/anie.202211826)
- 3) Müller IK, Winter C, Thomas C, Spaapen RM, Trowitzsch S, Tampé R (2022) Structure of an MHC I-tapasin-ERp57 editing complex defines chaperone promiscuity. *Nat Commun*, 13, 5283. [doi:10.1038/s41467-022-32841-9](https://doi.org/10.1038/s41467-022-32841-9)
- 4) Sekulovski S, Sušac L, Stelzl L, Tampé R, Trowitzsch (2022) Structural basis of substrate recognition by human tRNA splicing endonuclease TSEN. *BioRxiv* 506465v1. [doi:10.1101/2022.09.03.506465](https://doi.org/10.1101/2022.09.03.506465)
- 5) Chan JF, Oh YJ, Yuan S, Chu H, Yeung ML; Canena D, Chan CC, Poon VK, Chan CC, Zhang AJ, Cai JP, Ye ZW, Wen L, Yuen TT; Kenn Chik KK, Shuai H, Wang Y, Hou Y, Luo C, Chan WM, Qin Z, Sit KY, Au WK, Legendre M, Zhu R, Hain L, Seferovic H, Tampé R; To KK, Chan KH, Thomas DG, Klausberger M, Xu C, Moon JJ, Stadlmann J, Penninger JM, Oostenbrink C, Hinterdorfer P, Yuen KY, Markovitz DM (2022) A molecularly engineered, broad-spectrum anti-coronavirus lectin inhibits SARS-CoV-2 and MERS-CoV infection in vivo. *Cell Rep Med*, 100774. [doi:10.1016/j.xcrm.2022.100774](https://doi.org/10.1016/j.xcrm.2022.100774)
- 6) Sušac L, Yuong MT, Thomas C, von Bülow S, O'Brien-Ball C, Santos AM, Fernandes RA, Hummer G, Tampé R*, Davis SJ* (2022) Structure of a fully assembled tumor-specific T-cell receptor ligated by pMHC. *Cell* 185, 3201-13. [doi:10.1016/j.cell.2022.07.010](https://doi.org/10.1016/j.cell.2022.07.010)
- 7) Domnick A, Winter C, Sušac L, Hennecke L, Hensen M, Zitzmann N, Trowitzsch S, Thomas C, Tampé R (2022) Molecular basis of MHC I quality control in the peptide loading complex. *Nat Commun* 13, 4701. [doi:10.1038/s41467-022-32384-z](https://doi.org/10.1038/s41467-022-32384-z)
- 8) Sánchez MF, Tampé R (2022) Ligand-independent receptor clustering modulates transmembrane signaling: a new paradigm. *Trends Biochem Sci*, in press. [doi:10.1016/j.tibs.2022.08.002](https://doi.org/10.1016/j.tibs.2022.08.002)
- 9) Koller N, Höllthaler P, Barends M, Döring M, Spahn C, Duran V, Costa B, Becker J, Heilemann M, Kalinke U, Tampé R (2022) Nanoscale organization of the MHC I peptide loading complex in human dendritic cells. *Cell Mol Life Sci* 79, 477. [doi:10.1007/s00018-022-04472-2](https://doi.org/10.1007/s00018-022-04472-2)
- 10) Sánchez MF, Dietz MS, Müller U, Weghuber J, Gatterdam K, Wieneke R, Heilemann M, Lanzerstorfer P, Tampé R (2022) Dynamic in situ confinement triggers ligand-free neuropeptide receptor signaling. *BioRxiv* 472742. [doi:10.1101/2021.12.472742](https://doi.org/10.1101/2021.12.472742)
- 11) Krüger H, Asido M, Wachtveitl J, Tampé R, Wieneke R (2022) Sensitizer-enhanced two-photon patterning of biomolecules in photoinstructive hydrogels. *Commun Materials* 3, 9. [doi:10.1038/s43246-022-00230-w](https://doi.org/10.1038/s43246-022-00230-w)
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- 15) Dultz G, Sirkakulam SK, Konetschnik M, Shimakami T, Doncheva NT, Dietz J, Sarrazin C, Biondi RM, Zeuzem S, Tampé R, Kalinina OV, Welsch C (2021) Epistatic interactions promote persistence of

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- 16) Stefan E, Obexer R, Hofmann S, Vu Huu K, Huang Y, Morgner N, Suga H, Tampé R (2021) De-novo macrocyclic peptides dissect energy coupling of a heterodimeric ABC transporter by multimode allosteric inhibition. *eLife* 10, e67732. [doi:10.7554/eLife.67732](https://doi.org/10.7554/eLife.67732)
- 17) Diederichs T, Tampé R (2021) Membrane-suspended nanopores in microchip arrays for stochastic transport recording and Sensing. *Front Nanotechnol* 3, 703673. [doi:10.3389/fnano.2021.703673](https://doi.org/10.3389/fnano.2021.703673)
- 18) Joest EF, Winter C, Wesalo JS, Deiters A, Tampé R (2021) Light-guided intrabodies for on-demand in-situ target recognition in human cells. *Chem Science* 12,5787-95. [doi:10.1039/D1SC01331A](https://doi.org/10.1039/D1SC01331A)
- 19) Durán V, Grabski E, Hozsa C, Becker J, Yasar H, Costa B, Koller N, Lueder Y, Wiegmann B, Brandes G, Kaefer V, Lehr CM, Tampé R, Förster R, Bošnjak B, Furch M, Graalman, Kalinke U (2021) Fucosylated lipid nanocarriers loaded with antibiotics efficiently inhibit mycobacterial propagation in human myeloid cells. *J Controlled Release* 334, 201-22. [doi:10.1016/j.conrel.2021.Joest.04.012](https://doi.org/10.1016/j.conrel.2021.Joest.04.012)
- 20) Barbet G, Nair-Gupta P, Schotsaert M, Yeung ST, Moretti J, Seyffer F, Metreveli G, Tardner T, Choi A, Tortorella D, Tampé R, Khanna KM, Garcia-Sastre A, Blander JM (2021) TAP dysfunction redirects subcellular MHC-I traffic to enable non-canonical cross-presentation and CD8 T cell priming. *Nat Immunol* 22, 497-509. [doi:10.1038/s41590-021-00903-7](https://doi.org/10.1038/s41590-021-00903-7)
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- 22) Sánchez MF, Els-Heindl S, Beck-Sickinger AG, Wieneke R, Tampé R (2021) Photo-induced receptor confinement drives ligand-independent GPCR signaling. *Science* 371, abb7657. [doi:10.1126/science.abb7657](https://doi.org/10.1126/science.abb7657)
- 23) Diederichs T, Tampé R (2021) Single cell-like systems reveal active unidirectional and light-controlled transport by nanomachineries. *ACS Nano* 15, 6747-55. [doi:10.1021/acsnano.0c10139](https://doi.org/10.1021/acsnano.0c10139)
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- 28) Thomas C, Aller SG, Beis K, Carpenter EP, Chang G, Chen L, Dassa E, Dean M, Doung van Hoa F, Ekiert D, Ford R, Gaudet R, Gong X, Holland IB, Huang Y, Kahne DK, Kato H, Kornakis V, Koth CM, Lee Y, Lewinson O, Lill R, Martinoia E, Marakami S, Pinkett HW, Poolman B, Rosenbaum D, Sarkadi B, Schmitt L, Schneider E, Shi Y, Shyng SL, Slotboom DJ, Tajikhorshid E, Tieleman DP, Ueda K, Váradi A, Wen PC, Yan N, Zhang P, Zheng H, Zimmer J, Tampé R (2020) Structural and functional diversity calls for a new classification of ABC transporters. *FEBS Lett* 594, 2767-75. [doi:10.1002/1873-3468-13936](https://doi.org/10.1002/1873-3468-13936)
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- 36) Nürnberg-Goloub E, Kratzat H, Heinemann H, Heuer A, Kötter P, Berninghausen O, Becker T, Tampé R^{*,#}, Beckmann R^{*} (2020) Molecular analysis of the ribosome recycling factor ABCE1 bound to the 30S post-splitting complex. *EMBO J* 39, e103788. (*corr. author, #lead contact) [doi:10.15252/embj.2019103788](https://doi.org/10.15252/embj.2019103788)
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