

1. Franziska Köper, Danara Vonk, Malte W. Dirksen, Isabel Gross, Axel Heep, Torsten Plösch, Mark S. **Hipp**, Anja U. Bräuer. Visualizing multimerization of plasticity-related gene 5 at the plasma membrane using FLIM-FRET. *Frontiers in Molecular Bioscience* 2024 30 September 2024, Volume 11 - <https://doi.org/10.3389/fmolb.2024.1478291>. Pdf.
2. Henrick Riemenschneider, Qiang Guo , Jakob Bader h, Frédéric Frottin , Daniel Farny, Gernot Kleinberger, Christian Haass , Matthias Mann , F Ulrich Hartl , Wolfgang Baumeister, Mark S **Hipp** , Felix Meissner , Rubén Fernández-Busnadio, Ruben Fernandez Bus. Author Correction: Gel-like inclusions of C-terminal fragments of TDP-43 sequester stalled proteasomes in neurons. *EMBO reports* 2024 Jun 7. doi: 10.1038/s44319-024-00163-0.. Pdf.
3. Mark S. **Hipp** & F. Ulrich Hartl. Interplay of Proteostasis Capacity and Protein Aggregation: Implications for Cellular Function and Disease. *Journal of Molecular Biology* 2024 May 2024, 16815. <https://doi.org/10.1016/j.jmb.2024.168615>. Pdf.
4. Mario Mauthe, Harm H Kampinga, Mark S **Hipp**, Fulvio Reggiori. Digest it all: the lysosomal turnover of cytoplasmic aggregates. *Trends Biochem Sci* 2023 Mar 48(3):216-228. doi: 10.1016/j.tibs.2022.09.012.. Pdf.
5. Itika Saha , Patricia Yuste-Checa , Miguel Da Silva Padilha , Qiang Guo , Roman Körner , Hauke Holthusen , Victoria A Trinkaus , Irina Dudanova , Rubén Fernández-Busnadio, Wolfgang Baumeister , David W Sanders , Saurabh Gautam , Marc I D. The AAA+ chaperone VCP disaggregates Tau fibrils and generates aggregate seeds in a cellular system. *Nature Communications* 2023 Feb 2;14(1):560. Pdf.
6. Gross I, Tschigor T, Salman AL, Yang F, Luo J, Vonk D, **Hipp** MS, Neidhardt J, Bräuer AU. Dev Dyn.. A systematic expression analysis of Plasticity-Related Genes in mouse brain development brings PRG4 into play.. *Developmental Dynamics* 2022 Apr;251(4):714-728. doi: 10.1002/dvdy.428.. Pdf.
7. Henrick Riemenschneider, Qiang Guo, Jakob Bader, Frédéric Frottin, Daniel Farny, Gernot Kleinberger, Christian Haass, Matthias Mann, F. Ulrich Hartl, Wolfgang Baumeister, Mark S **Hipp**, Felix Meissner, Rubén Fernández-Busnadio, Dieter Edbauer. Gel-like inclusions of C-terminal fragments of TDP-43 sequester stalled proteasomes in neurons. *EMBO reports* 2022 e53890. Pdf.
8. Isabel Gross, Nicola Brandt, Danara Vonk, Franziska Köper, Lars Wöhlbrand, Ralf Rabus, Martin Witt6, Axel Heep, Torsten Plösch, Mark S. **Hipp**, and Anja U. Bräuer. Plasticity-Related Gene 5 Is Expressed in a Late Phase of Neurodifferentiation After Neuronal Cell-Fate Determination. *Frontiers in Cellular Neuroscience* 2022 15 April <https://doi.org/10.3389/fncel.2022.797588>. Pdf.
9. Mauthe M, Kampinga HH, **Hipp** MS, Reggiori F. Digest it all: The lysosomal turnover of cytoplasmic aggregates. *Trends in Biochemical Sciences* 2022 Oct 21;S0968-0004(22)00271-7. Pdf.
10. Frédéric Frottin, Manuela Pérez-Berlanga, F Ulrich Hartl, Mark S **Hipp**. Multiple pathways of toxicity induced by C9orf72 dipeptide repeat aggregates and G4C2 RNA in a cellular model. *eLife* 2021 10:e62718. DOI: <https://doi.org/10.7554/eLife.62718>. Pdf.
11. Blumenstock S, Schulz-Trieglaff EK, Voelkl K, Bolender AL, Larios P, Lindner J, **Hipp** MS, Hartl FU, Rüdiger Klein R, Dudanova I. Fluc-EGFP reporter mice reveal differential alterations of neuronal proteostasis in aging and disease. *EMBO Journal* 2021 August. doi: 10.15252/embj.2020107260. Pdf.

12. Trinkaus VA, Riera-Tur I, Martínez-Sánchez A, Bäuerlein FJB, Guo Q, Arzberger T, Baumeister W, Dudanova I, **Hipp** MS, Hartl FU, Fernández-Busnadio R.. In situ architecture of neuronal α-Synuclein inclusions.. *Nat Commun.* 2021 Apr 14;12(1):2110. doi: 10.1038/s41467-021-22108-0.PMID: 33854052. Pdf.
13. Yuste-Checa P, Trinkaus VA, Riera-Tur I, Imamoglu R, Schaller TF, Wang H, Dudanova I, **Hipp** MS, Bracher A, Hartl FU.. The extracellular chaperone Clusterin enhances Tau aggregate seeding in a cellular model.. *Nature Communications* 2021 Aug 11;12(1):4863. Pdf.
14. Bie, A. S., Comert, C., Korner, R., Corydon, T. J., Palmfeldt, J., **Hipp**, M. S., Hartl, F. U., & Bross, P.. An inventory of interactors of the human HSP60/HSP10 chaperonin in the mitochondrial matrix space. *Cell Stres Chaperones* 2020 <https://doi.org/10.1007/s12192-020-01080-6>. Pdf.
15. Jayaraj, G. G., **Hipp**, M. S., & Hartl, F. U.. Functional Modules of the Proteostasis Network.. *Cold Spring Harb Perspect Biol.* 2020 12(1).. Pdf.
16. Khosravi, B., LaClair, K. D., Riemenschneider, H., Zhou, Q., Frottin, F., Mareljic, N., Czuppa, M., Farny, D., Hartmann, H., Michaelsen, M., Arzberger, T., Hartl, F. U., **Hipp**, M. S., & Edbauer, D.. Cell-to-cell transmission of C9orf72 poly-(Gly-Ala) triggers key features of ALS/FTD.. *EMBO J* 2020 39(8), e102811.. Pdf.
17. Klaips CL, Groppe MHM, **Hipp** MS, Hartl FU. Sis1 potentiates the stress response to protein aggregation and elevated temperature.. *Nat Commun* 2020 11(1):6271.. Pdf.
18. Klaips, C. L., Groppe, M. H. M., **Hipp**, M. S., & Hartl, F. U.. Sis1 potentiates the stress response to protein aggregation and elevated temperature.. *Nat Commun* 2020 11(1), 6271.. Pdf.
19. Trentini, D. B., Pecoraro, M., Tiwary, S., Cox, J., Mann, M., **Hipp**, M. S., & Hartl, F. U.. Role for ribosome-associated quality control in sampling proteins for MHC class I-mediated antigen presentation.. *Proc Natl Acad Sci USA* 2020 117(8), 4099-4108.. Pdf.
20. Jayaraj GG, **Hipp** MS, Hartl FU.. Functional Modules of the Proteostasis Network.. *Cold Spring Harb Perspect Biol.* 2019 Mar 4. pii: a033951.. Pdf.
21. van Well EM, Bader V, Patra M, Sánchez-Vicente A, Meschede J, Furthmann N, Schnack C, Blusch A, Longworth J, Petrasch-Parwez E, Mori K, Arzberger T, Trümbach D, Angersbach L, Showkat C, Sehr DA, Berlemann LA, Goldmann P, Clement AM, Behl C, Woerner AC, Sa. A protein quality control pathway regulated by linear ubiquitination.. *EMBO J.* 2019 May 2;38(9). Pdf.
22. **Hipp** MS, Kasturi P, Hartl FU. The proteostasis network and its decline in ageing.. *Nat Rev Mol Cell Biol* 2019 20(7):421-435.. Pdf.
23. Frottin F, Schueder F, Tiwary S, Gupta R, Körner R, Schlichthaerle T, Cox J, Jungmann R, Hartl FU, **Hipp** MS. The nucleolus functions as a phase-separated protein quality control compartment.. *Science* 2019 365(6451):342-347. Pdf.
24. Guo Q, Lehmer C, Martínez-Sánchez A, Rudack T, Beck F, Hartmann H, Pérez-Berlanga M, Frottin F, **Hipp** MS, Hartl FU, Edbauer D, Baumeister W, Fernández-Busnadio R.. In Situ Structure of Neuronal C9orf72 Poly-GA Aggregates Reveals Proteasome Recruitment.. *Cell* 2018 Feb 8;172(4):696-705.e12.. Pdf.
25. Vincenz-Donnelly L, Holthusen H, Körner R, Hansen EC, Presto J, Johansson J, Sawarkar R, Hartl FU, **Hipp** MS. High capacity of the endoplasmic reticulum to prevent secretion and aggregation of amyloidogenic proteins.. *EMBO J* 2018 Feb 1;37(3):337-350.. Pdf.
26. Gruber A, Hornburg D, Antonin M, Krahmer N, Collado J, Schaffer M, Zubaite G, Lüchtenborg C, Sachsenheimer T, Brügger B, Mann M, Baumeister W, Hartl FU, **Hipp** MS, Fernández-

- Busnadio R.. Molecular and structural architecture of polyQ aggregates in yeast.. Proc Natl Acad Sci U S A 2018 Apr 10;115(15):E3446-E3453.. Pdf.
27. Bäuerlein FJB, Saha I, Mishra A, Kalemanov M, Martínez-Sánchez A, Klein R, Dudanova I, **Hipp** MS, Hartl FU, Baumeister W, Fernández- Busnadio R.. In Situ Architecture and Cellular Interactions of PolyQ Inclusions.. Cell 2017 Sep 21;171(1):179-187.e10.. Pdf.
28. Hosp F, Gutiérrez-Ángel S, Schaefer MH, Cox J, Meissner F, **Hipp** MS, Hartl FU, Klein R, Dudanova I, Mann M.. Spatiotemporal Proteomic Profiling of Huntington's Disease Inclusions Reveals Widespread Loss of. Cell reports 2017 Nov 21;21(8):2291-2303. Pdf.
29. Vincenz-Donnelly L, **Hipp** MS.. The endoplasmic reticulum: A hub of protein quality control in health and disease.. Free Radic Biol Med. 2017 Jul;108:383-393. Pdf.
30. De Smet F, Saiz Rubio M, Hompes D, Naus E, De Baets G, Langenberg T, **Hipp** MS, Houben B, Claes F, Charbonneau S, Delgado Blanco J, Plaisance S, Ramkissoon S, Ramkissoon L, Simons C, van den Brandt P, Weijenberg M, Van England M, Lambrechts S, Amant F, D'Ho. Nuclear inclusion bodies of mutant and wild-type p53 in cancer: a hallmark of p53 inactivation and. Journal of Pathology 2017 May;242(1):24-38.. Pdf.
31. Landreh M, Sawaya MR, **Hipp** MS, Eisenberg DS, Wüthrich K, Hartl FU.. The formation, function and regulation of amyloids: insights from structural biology.. J Intern Med. 2016 Aug;280(2):164-76. doi: 10.1111/joim.12500. Review.. Pdf.
32. Woerner AC, Frottin F, Hornburg D, Feng LR, Meissner F, Patra M, Tatzelt J, Mann M, Winklhofer KF, Hartl FU, **Hipp** MS. Cytoplasmic protein aggregates interfere with nucleocytoplasmic transport of protein and RNA.. Science 2016 Jan 8;351(6269):173-6.. Pdf.
33. Kirstein J, Morito D, Kakihana T, Sugihara M, Minnen A, **Hipp** MS, Nussbaum-Krammer C, Kasturi P, Hartl FU, Nagata K, Morimoto RI.. Proteotoxic stress and ageing triggers the loss of redox homeostasis across cellular compartments.. EMBO Journal 2015 Sep 14;34(18):2334-49. Pdf.
34. Ripaud L, Chumakova V, Antonin M, Hastie AR, Pinkert S, Körner R, Ruff KM, Pappu RV, Hornburg D, Mann M, Hartl FU, **Hipp** MS.. Overexpression of Q-rich prion-like proteins suppresses polyQ cytotoxicity and alters the polyQ. Proc Natl Acad Sci U S A 2014 Dec 23;111(51):18219-24. Pdf.
35. **Hipp** MS, Park SH, Hartl FU.. Proteostasis impairment in protein-misfolding and -aggregation diseases.. Trends Cell Biol 2014 Sep;24(9):506-14.. Pdf.
36. Kim YE, **Hipp** MS, Bracher A, Hayer- Hartl M, Hartl FU. Molecular chaperone functions in protein folding and proteostasis.. Annu Rev Biochem 2013 82:323-55. doi: 10.1146/annurev-biochem-060208-092442. Review.. Pdf.
37. Kim YE, **Hipp** MS, Bracher A, Hayer-Hartl M, Hartl FU.. Molecular Chaperone Functions in Protein Folding and Proteostasis.. Annual rev of Biochem 2013 VOL 82, pp. 323 - 355. Pdf.
38. Park SH, Kukushkin Y, Gupta R, Chen T, Konagai A, **Hipp** MS, Hayer-Hartl M, Hartl FU.. PolyQ proteins interfere with nuclear degradation of cytosolic proteins by sequestering the Sis1p. Cell 2013 Jul 3;154(1):134-45. Pdf.
39. Bersuker K, **Hipp** MS, Calamini B, Morimoto RI, Kopito RR.. Heat shock response activation exacerbates inclusion body formation in a cellular model of Huntington. J Biol Chem 2013 Aug 16;288(33):23633-8.. Pdf.
40. **Hipp** MS, Patel CN, Bersuker K, Riley BE, Kaiser SE, Shaler TA, Brandeis M, Kopito RR.. Indirect inhibition of 26S proteasome activity in a cellular model of Huntington's disease.. J Cell Biol 2012 Mar 5;196(5):573- 87. Pdf.

41. **Hipp** MS, Bersuker K, Kopito RR.. Live-cell imaging of ubiquitin-proteasome system function.. *Methods Mol Biol* 2012 832:463-72. doi: 10.1007/978-1-61779-474-2_33.. Pdf.
42. **Hipp** MS, Bersuker K, Kopito RR. (Eds. Dohmen, R. J.; Scheffner, M.). *Live-Cell Imaging of Ubiquitin-Proteasome System Function.. Ubiquitin Family Modifiers and the Proteasome: Reviews and Protocols* 2012 pp. 463 - 472. Pdf.
43. Riley BE, Kaiser SE, Shaler TA, Ng AC, Hara T, **Hipp** MS, Lage K, Xavier RJ, Ryu KY, Taguchi K, Yamamoto M, Tanaka K, Mizushima N, Komatsu M, Kopito RR.. Ubiquitin accumulation in autophagy-deficient mice is dependent on the Nrf2-mediated stress response pathway: a potential role for protein aggregation in autophagic substrate selection.. *J Cell Biol* 2010 Nov 1;191(3):537-52.. Pdf.
44. Schmidtke G, Kalveram B, Weber E, Bochtler P, Lukasiak S, **Hipp** MS, Groettrup M.. The UBA domains of NUB1L are required for binding but not for accelerated degradation of the. *J Biol Chem* 2006 Jul 21;281(29):20045-54.. Pdf.
45. **Hipp** MS, Kalveram B, Raasi S, Groettrup M, Schmidtke G.. FAT10, a ubiquitin-independent signal for proteasomal degradation.. *Mol Cell Biol* 2005 May;25(9):3483-91.. Pdf.
46. **Hipp** MS, Raasi S, Groettrup M, Schmidtke G. *J Biol Chem*. 2004 Apr 16;279(16):16503-10. Epub 2004 Feb 2.. NEDD8 ultimate buster-1L interacts with the ubiquitin-like protein FAT10 and accelerates its. *J Biol Chem* 2004 Apr 16;279(16):16503-10.. Pdf.
47. **Hipp** MS, Urbich C, Mayer P, Wischhusen J, Weller M, Kracht M, Spyridopoulos I.. Proteasome inhibition leads to NF-kappaB-independent IL-8 transactivation in human endothelial cells. *Eur J Immunol* 2002 Aug;32(8):2208-17.. Pdf.