Publications

* Sorted by year (year on the left and then listed publication from that year and so on, the newest go on top

**1. Sonn-Segev, A., Belacic, K., Bodrug, T., Young, G., VanderLinden, R. T., Schulman, B.A., Schimpf, J., Friedrich, T., Vinh Dip, P., Schwartz, T.U., Bauer, B., Peters, J.M., Struwe, W.B., Benesch, J.L.P., Brown, N.G., Haselbach, D., Kukura, P. (2020)**

[**Quantifying the heterogeneity of macromolecular machines by mass photometry.**](https://www.nature.com/articles/s41467-020-15642-w)

Nat Commun. 11: 1772

**2. Prajapati, S., Haselbach, D., Wittig, S., Patel, MS., Chari, A., Schmidt, C., Stark, H., Tittmann, K. (2019)**

**[Structural and Functional Analyses of the Human PDH Complex Suggest a "Division-of-Labor" Mechanism by Local E1 and E3 Clusters.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=31130485" \o "Structural and Functional Analyses of the Human PDH Complex Suggest a &quot;Division-of-Labor&quot; Mechanism by Local E1 and E3 Clusters." \t "_blank)**

Structure. 27(7):1124-1136.e4

**3. Watson, ER., Grace, CRR., Zhang, W., Miller, DJ., Davidson, IF., Prabu, JR., Yu, S., Bolhuis, DL., Kulko, ET., Vollrath, R., Haselbach, D., Stark, H., Peters, JM., Brown, NG., Sidhu, SS., Schulman, BA. (2019)**

**[Protein engineering of a ubiquitin-variant inhibitor of APC/C identifies a cryptic K48 ubiquitin chain binding site.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=31350353" \o "Protein engineering of a ubiquitin-variant inhibitor of APC/C identifies a cryptic K48 ubiquitin chain binding site." \t "_blank)**

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**4. Haselbach, D., Komarov, I., Agafonov, DE., Hartmuth, K., Graf, B., Dybkov, O., Urlaub, H., Kastner, B., Lührmann, R., Stark, H. (2018)**

**[Structure and Conformational Dynamics of the Human Spliceosomal Bact Complex.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=29361316" \o "Structure and Conformational Dynamics of the Human Spliceosomal Bact Complex." \t "_blank)**

Cell. 172(3):454-464.e11

**5. Bertram, K., Agafonov, DE., Dybkov, O., Haselbach, D., Leelaram, MN., Will, CL., Urlaub, H., Kastner, B., Lührmann, R., Stark, H. (2017)**

**[Cryo-EM Structure of a Pre-catalytic Human Spliceosome Primed for Activation.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=28781166" \o "Cryo-EM Structure of a Pre-catalytic Human Spliceosome Primed for Activation." \t "_blank)**

Cell. 170(4):701-713.e11

**6. Haselbach, D., Schrader, J., Lambrecht, F., Henneberg, F., Chari, A., Stark, H. (2017)**

**[Long-range allosteric regulation of the human 26S proteasome by 20S proteasome-targeting cancer drugs.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=28541292" \o "Long-range allosteric regulation of the human 26S proteasome by 20S proteasome-targeting cancer drugs." \t "_blank)**

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**7. Brown, NG., VanderLinden, R., Watson, ER., Weissmann, F., Ordureau, A., Wu, KP., Zhang, W., Yu, S., Mercredi, PY., Harrison, JS., Davidson, IF., Qiao, R., Lu, Y., Dube, P., Brunner, MR., Grace, CRR., Miller, DJ., Haselbach, D., Jarvis, MA., Yamaguchi, M., Yanishevski, D., Petzold, G., Sidhu, SS., Kuhlman, B., Kirschner, MW., Harper, JW., Peters, JM., Stark, H., Schulman, BA. (2016)**

**[Dual RING E3 Architectures Regulate Multiubiquitination and Ubiquitin Chain Elongation by APC/C.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=27259151" \o "Dual RING E3 Architectures Regulate Multiubiquitination and Ubiquitin Chain Elongation by APC/C." \t "_blank)**

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**8.Qiao, R., Weissmann, F., Yamaguchi, M., Brown, NG., VanderLinden, R., Imre, R., Jarvis, MA., Brunner, MR., Davidson, IF., Litos, G., Haselbach, D., Mechtler, K., Stark, H., Schulman, BA., Peters, JM. (2016)**

**[Mechanism of APC/CCDC20 activation by mitotic phosphorylation.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=27114510" \o "Mechanism of APC/CCDC20 activation by mitotic phosphorylation." \t "_blank)**

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**9. Yamaguchi, M., VanderLinden, R., Weissmann, F., Qiao, R., Dube, P., Brown, NG., Haselbach, D., Zhang, W., Sidhu, SS., Peters, JM., Stark, H., Schulman, BA. (2016)**

**[Cryo-EM of Mitotic Checkpoint Complex-Bound APC/C Reveals Reciprocal and Conformational Regulation of Ubiquitin Ligation.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=27522463" \o "Cryo-EM of Mitotic Checkpoint Complex-Bound APC/C Reveals Reciprocal and Conformational Regulation of Ubiquitin Ligation." \t "_blank)**

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**10. Chari, A., Haselbach, D., Kirves, JM., Ohmer, J., Paknia, E., Fischer, N., Ganichkin, O., Möller, V., Frye, JJ., Petzold, G., Jarvis, M., Tietzel, M., Grimm, C., Peters, JM., Schulman, BA., Tittmann, K., Markl, J., Fischer, U., Stark, H. (2015)**

**[ProteoPlex: stability optimization of macromolecular complexes by sparse-matrix screening of chemical space.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=26237227" \o "ProteoPlex: stability optimization of macromolecular complexes by sparse-matrix screening of chemical space." \t "_blank)**

Nat Methods. 12(9):859-65

**11. Dölker, N., Blanchet, CE., Voß, B., Haselbach, D., Kappel, C., Monecke, T., Svergun, DI., Stark, H., Ficner, R., Zachariae, U., Grubmüller, H., Dickmanns, A. (2013)**

**[Structural determinants and mechanism of mammalian CRM1 allostery.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=23850451" \o "Structural determinants and mechanism of mammalian CRM1 allostery." \t "_blank)**

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**12. 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)**

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**13. Köster, DM., Haselbach, D., Lehrach, H., Seitz, H. (2011)**

**[A DNAzyme based label-free detection system for miniaturized assays.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Abstract&list_uids=21792453" \o "A DNAzyme based label-free detection system for miniaturized assays." \t "_blank)**

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