

## Patrick Cramer – Medline-listed publications

### **2021 (as of May 01, 2021)**

241. Aibara S, Schilbach S, **Cramer P**.  
Structures of mammalian RNA polymerase II pre-initiation complexes.  
*Nature* <https://doi.org/10.1038/s41586-021-03554-8> (2021).
240. Rengachari S, Schilbach S, Aibara S, Dienemann C, **Cramer P**.  
Structure of human Mediator–RNA polymerase II pre-initiation complex.  
*Nature* <https://doi.org/10.1038/s41586-021-03555-7> (2021).
239. Hillen HS, Markov DA, Wojtas ID, Hofmann KB, Lidschreiber M, Cowan AT, Jones JL, Temiakov D, **Cramer P**, Anikin M.  
The pentatricopeptide repeat protein Rmd9 recognizes the dodecameric element in the 3'-UTRs of yeast mitochondrial mRNAs.  
*Proc Natl Acad Sci U S A*. 2021 Apr 13;118(15):e2009329118. doi: 10.1073/pnas.2009329118.
238. Farnung L, Ochmann M, Engeholm M, **Cramer P**.  
Structural basis of nucleosome transcription mediated by Chd1 and FACT.  
*Nat Struct Mol Biol*. 2021 Apr;28(4):382-387. doi: 10.1038/s41594-021-00578-6.
237. Choi J, Lysakovskaia K, Stik G, Demel C, Söding J, Tian TV, Graf T, **Cramer P**.  
Evidence for additive and synergistic action of mammalian enhancers during cell fate determination.  
*Elife*. 2021 Mar 26;10:e65381. doi: 10.7554/eLife.65381.
236. Caizzi L, Monteiro-Martins S, Schwalb B, Lysakovskaia K, Schmitzova J, Sawicka A, Chen Y, Lidschreiber M, **Cramer P**.  
Efficient RNA polymerase II pause release requires U2 snRNP function.  
*Mol Cell*. 2021 Feb 26:S1097-2765(21)00126-X. doi: 10.1016/j.molcel.2021.02.016.
235. **Cramer P**, Kokic G, Dienemann C, Höbartner C, Hillen HS.  
Coronavirus-Replikation: Mechanismus und Inhibition durch Remdesivir.  
*Biospektrum (Heidelb)*. 2021;27(1):49-53. German. doi: 10.1007/s12268-021-1516-6.
234. Sawicka A, Villamil G, Lidschreiber M, Darzacq X, Dugast-Darzacq C, Schwalb B, **Cramer P**.  
Transcription activation depends on the length of the RNA polymerase II C-terminal domain.  
*EMBO J*. 2021 Feb 8:e107015. doi: 10.15252/embj.2020107015.
233. Rawat P, Boehning M, Hummel B, Aprile-Garcia F, Pandit AS, Eisenhardt N, Khavaran A, Niskanen E, Vos SM, Palvimo JJ, Pichler A, **Cramer P**, Sawarkar R.  
Stress-induced nuclear condensation of NELF drives transcriptional downregulation.  
*Mol Cell*. 2021 Mar 4;81(5):1013-1026.e11. doi: 10.1016/j.molcel.2021.01.016.
232. Tegunov D, Xue L, Dienemann C, **Cramer P**, Mahamid J.  
Multi-particle cryo-EM refinement with M visualizes ribosome-antibiotic complex at 3.5 Å in cells.  
*Nat Methods*. 2021 Feb;18(2):186-193. doi: 10.1038/s41592-020-01054-7.
231. Lidschreiber K, Jung LA, von der Emde H, Dave K, Taipale J, Cramer P, Lidschreiber M.  
Transcriptionally active enhancers in human cancer cells.  
*Mol Syst Biol*. 2021 Jan;17(1):e9873. doi: 10.15252/msb.20209873.
230. Endres T, Solvie D, Heidelberger JB, Andrioletti V, Baluapuri A, Ade CP, Muhar M, Eilers U, Vos SM, Cramer P, Zuber J, Beli P, Popov N, Wolf E, Gallant P, Eilers M.  
Ubiquitylation of MYC couples transcription elongation with double-strand break repair at active promoters.  
*Mol Cell*. 2021 Feb 18;81(4):830-844.e13. doi: 10.1016/j.molcel.2020.12.035.

229. Zhang S, Aibara S, Vos SM, Agafonov DE, Lührmann R, **Cramer P**. Structure of a transcribing RNA polymerase II-U1 snRNP complex. *Science*. 2021 Jan 15;371(6526):305-309. doi: 10.1126/science.abf1870.
228. Kocic G, Hillen HS, Tegunov D, Dienemann C, Seitz F, Schmitzova J, Farnung L, Siewert A, Höbartner C, **Cramer P**. Mechanism of SARS-CoV-2 polymerase stalling by remdesivir. *Nat Commun*. 2021 Jan 12;12(1):279. doi:10.1038/s41467-020-20542-0.
- 2020**
227. Lykke-Andersen S, Žumer K, Molska EŠ, Rouvière JO, Wu G, Demel C, Schwalb B, Schmid M, **Cramer P**, Jensen TH. Integrator is a genome-wide attenuator of non-productive transcription. *Mol Cell*. 2020 Dec 23;S1097-2765(20)30906-0. doi: 10.1016/j.molcel.2020.12.014.
226. Bonekamp NA, Peter B, Hillen HS, Felser A, Bergbrede T, Choidas A, Horn M, Unger A, Di Lucrezia R, Atanassov I, Li X, Koch U, Menninger S, Boros J, Habenberger P, Giavalisco P, **Cramer P**, Denzel MS, Nussbaumer P, Klebl B, Falkenberg M, Gustafsson CM, Larsson NG. Small-molecule inhibitors of human mitochondrial DNA transcription. *Nature*. 2020 Dec;588(7839):712-716. doi: 10.1038/s41586-020-03048-z.
225. Maier KC, Gressel S, **Cramer P**, Schwalb B. Native molecule sequencing by nano-ID reveals synthesis and stability of RNA isoforms. *Genome Res*. 2020 Sep;30(9):1332-1344. doi: 10.1101/gr.257857.119. Epub 2020 Sep 4. PMID: 32887688
224. Osman S, **Cramer P**. Structural Biology of RNA Polymerase II Transcription: 20 Years On. *Annu Rev Cell Dev Biol*. 2020 Oct 6;36:1-34. doi: 10.1146/annurev-cellbio-042020-021954. Epub 2020 Aug 21. PMID: 32822539
223. Kim KP, Choi J, Yoon J, Bruder JM, Shin B, Kim J, Arauzo-Bravo MJ, Han D, Wu G, Han DW, Kim J, **Cramer P**, Schöler HR. Permissive epigenomes endow reprogramming competence to transcriptional regulators. *Nat Chem Biol*. 2020 Aug 17. doi: 10.1038/s41589-020-0618-6. Online ahead of print. PMID: 32807969
222. Tellier M, Zaborowska J, Caizzi L, Mohammad E, Velychko T, Schwalb B, Ferrer-Vicens I, Blears D, Nojima T, **Cramer P**, Murphy S. CDK12 globally stimulates RNA polymerase II transcription elongation and carboxyl-terminal domain phosphorylation. *Nucleic Acids Res*. 2020 Aug 20;48(14):7712-7727. doi: 10.1093/nar/gkaa514. PMID: 32805052
221. O'Reilly FJ, Xue L, Graziadei A, Sinn L, Lenz S, Tegunov D, Blötz C, Singh N, Hagen WJH, **Cramer P**, Stülke J, Mahamid J, Rappsilber J. In-cell architecture of an actively transcribing-translating expressome. *Science*. 2020 Jul 31;369(6503):554-557. doi: 10.1126/science.abb3758. PMID: 32732422
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219. Farnung L, Ochmann M, **Cramer P**. Nucleosome-CHD4 chromatin remodeller structure maps human disease mutations. *Elife*. 2020 Jun 16;9:e56178. doi: 10.7554/eLife.56178. Online ahead of print. PMID: 32543371 Free article.
218. Vos SM, Farnung L, Linden A, Urlaub H, **Cramer P**.

Structure of complete Pol II-DSIF-PAF-SPT6 transcription complex reveals RTF1 allosteric activation.  
*Nat Struct Mol Biol.* 2020 Jun 15. doi: 10.1038/s41594-020-0437-1. Online ahead of print. PMID: 32541898

217. Stik G, Vidal E, Barrero M, Cuartero S, Vila-Casadesús M, Mendieta-Esteban J, Tian TV, Choi J, Berenguer C, Abad A, Borsari B, le Dily F, **Cramer P**, Marti-Renom MA, Stadhouders R, Graf T. CTCF is dispensable for immune cell transdifferentiation but facilitates an acute inflammatory response.  
*Nat Genet.* 2020 Jun 8. doi: 10.1038/s41588-020-0643-0. Online ahead of print. PMID: 32514124

216. Jaeger MG, Schwalb B, Mackowiak SD, Velychko T, Hanzl A, Imrichova H, Brand M, Agerer B, Chorn S, Nabet B, Ferguson F, Müller AC, Bergthaler A, Gray NS, Bradner JE, Bock C, Hnisz D, **Cramer P**, Winter GE. Selective Mediator dependence of cell-type-specifying transcription.  
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215. Hillen HS, Kokic G, Farnung L, Dienemann C, Tegunov D, **Cramer P**. Structure of replicating SARS-CoV-2 polymerase.  
*Nature.* 2020 May 21. doi: 10.1038/s41586-020-2368-8.

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*Nature.* 2020 Apr;580(7805):669-672. doi: 10.1038/s41586-020-2195-y.

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*J Proteomics.* 2020 May 30;220:103754. doi: 10.1016/j.jprot.2020.103754.

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*Nature.* 2020 Mar;579(7799):448-451. doi: 10.1038/s41586-020-2088-0.

211. Wang H, Dienemann C, Stützer A, Urlaub H, Cheung AM, **Cramer P**. Structure of transcription coactivator SAGA.  
*Nature.* 2020, Jan 22. doi: 10.1038/s41586-020-1933-5.

210. **Cramer P**. 500 years after the first circumnavigation of the world: the efforts, rewards and drawbacks of exploration.  
*FEBS Lett.* 2020 Jan;594(2):207-208.

## **2019**

209. Hillen HS, Bartuli J, Grimm C, Dienemann C, Bedenk K, Szalay AA, Fischer U, **Cramer P**. Structural basis of Poxvirus transcription: transcribing and capping Vaccinia complexes.  
*Cell.* 2019 Dec 12;179(7):1525-1536.

208. Grimm C, Hillen HS, Bedenk K, Bartuli J, Neyer S, Zhang Q, Hüttenhofer A, Erlacher M, Dienemann C, Schlosser A, Urlaub H, Böttcher B, Szalay AA, **Cramer P**, Fischer U. Structural basis of Poxvirus transcription: Vaccinia RNA polymerase complexes.  
*Cell.* 2019 Dec 12;179(7):1537-1550.

207. Wang H, Farnung L, Dienemann C, **Cramer P**. Structure of H3K36-methylated nucleosome-PWWP complex reveals multivalent cross-gyre binding  
*Nature Struct Mol Biol.* 2019 doi:10.1038/s41594-019-0345-4

206. **Cramer P**. Eukaryotic transcription turns 50.  
*Cell.* 2019 Oct 31;179(4):808-812.

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Real-time cryo-electron microscopy data preprocessing with Warp.  
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204. **Cramer P.**

Organization and regulation of gene transcription.  
*Nature*. 2019 Sep;573(7772):45-54.

203. Gressel S, Schwalb B, **Cramer P.**

The pause-initiation limit restricts transcription activation in human cells.  
*Nat Commun*. 2019 Aug 9;10(1):3603.

202. Hendriks GJ, Jung LA, Larsson AJM, Lidschreiber M, Andersson Forsman O, Lidschreiber K, **Cramer P**, Sandberg R.

NASC-seq monitors RNA synthesis in single cells.  
*Nat Commun*. 2019 Jul 17;10(1):3138.

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Structural basis of TFIIH activation for nucleotide excision repair.  
*Nat Commun*. 2019 Jun 28;10(1):2885.

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Structure of the super-elongation complex subunit AFF4 C-terminal homology domain reveals requirements for AFF homo- and heterodimerization.  
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Transcriptome maps of general eukaryotic RNA degradation factors.  
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Global donor and acceptor splicing site kinetics in human cells.  
*Elife*. 2019 Apr 26;8. pii: e45056. doi: 10.7554/eLife.45056.

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MYC Recruits SPT5 to RNA Polymerase II to Promote Processive Transcription Elongation.  
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Yeast mitochondrial protein Pet111p binds directly to two distinct targets in COX2 mRNA, suggesting a mechanism of translational activation.  
*J Biol Chem*. 2019 May 3;294(18):7528-7536.

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The Implication of Early Chromatin Changes in X Chromosome Inactivation.  
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194. Farnung L, Vos SM, **Cramer P.**

Structure of transcribing RNA polymerase II-nucleosome complex.  
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Promoter Distortion and Opening in the RNA Polymerase II Cleft.  
*Mol Cell*. 2019 Jan 3;73(1):97-106.e4.

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The interaction landscape between transcription factors and the nucleosome.

*Nature*. 2018 Oct; 562(7725):76-81. doi: 10.1038/s41586-018-0549-5.

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Structural basis of mitochondrial transcription.

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Structure of paused transcription complex Pol II-DSIF-NELF.

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188. Vos SM, Farnung L, Boehning M, Wigge C, Linden A, Urlaub H, **Cramer P**.

Structure of activated transcription complex Pol II-DSIF-PAF-SPT6.

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RNA velocity of single cells.

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Structural Basis of Mitochondrial Transcription Initiation.

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Mechanism of RNA polymerase II stalling by DNA alkylation.

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RNA-dependent chromatin association of transcription elongation factors and Pol II CTD kinases.  
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## **2015**

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