

## Patrick Cramer – Medline-listed publications

### 2021

256. Structural basis of Integrator-mediated transcription regulation.  
Fianu I, Chen Y, Dienemann C, Dybkov O, Linden A, Urlaub H, **Cramer P**.  
*Science*. Nov 12;374(6569):883-887.
255. Structural basis of human transcription-DNA repair coupling.  
Kokic G, Wagner FR, Chernev A, Urlaub H, **Cramer P**.  
*Nature*. 2021 Oct;598(7880):368-372.
254. Structure of an inactive RNA polymerase II dimer.  
Aibara S, Dienemann C, **Cramer P**.  
*Nucleic Acids Res*. 2021 Oct 11;49(18):10747-10755.
253. Structural basis of RNA processing by human mitochondrial RNase P.  
Bhatta A, Dienemann C, **Cramer P**, Hillen HS.  
*Nat Struct Mol Biol*. 2021 Sep;28(9):713-723.
252. Jochheim FA, Tegunov D, Hillen HS, Schmitzová J, Kokic G, Dienemann C, **Cramer P**.  
The structure of a dimeric form of SARS-CoV-2 polymerase.  
*Commun Biol*. 2021 Aug 24;4(1):999.
251. Kabinger F, Stiller C, Schmitzová J, Dienemann C, Kokic G, Hillen HS, Höbartner C, **Cramer P**.  
Mechanism of molnupiravir-induced SARS-CoV-2 mutagenesis.  
*Nat Struct Mol Biol*. 2021 Sep;28(9):740-746.
250. **Cramer P**.  
AlphaFold2 and the future of structural biology.  
*Nat Struct Mol Biol*. 2021 Sep;28(9):704-705.
249. Wang H, Xiong L, **Cramer P**.  
Structures and implications of TBP-nucleosome complexes.  
*Proc Natl Acad Sci U S A*. 2021 Jul 27;118(30):e2108859118.
248. Garcia-Martinez J, Medina DA, Bellvis P, Sun M, **Cramer P**, Chavez S, Perez-Ortin JE.  
The total mRNA concentration buffering system in yeast is global rather than gene-specific.  
*RNA*. 2021 Jul 16:rna.078774.121.
247. Chen Y, Vos SM, Dienemann C, Ninov M, Urlaub H, **Cramer P**.  
Allosteric transcription stimulation by RNA polymerase II super elongation complex.  
*Mol Cell*. 2021 Aug 19;81(16):3386-3399.e10.
246. Žumer K, Maier KC, Farnung L, Jaeger MG, Rus P, Winter G, **Cramer P**.  
Two distinct mechanisms of RNA polymerase II elongation stimulation in vivo.  
*Mol Cell*. 2021 Aug 5;81(15):3096-3109.e8.
245. Schilbach S, Aibara S, Dienemann C, Grabbe F, **Cramer P**.  
Structure of RNA polymerase II pre-initiation complex at 2.9 Å defines initial DNA opening.  
*Cell*. 2021 Jul 22;184(15):4064-4072.e28.
244. Oberbeckmann E, Niebauer V, Watanabe S, Farnung L, Moldt M, Schmid A, **Cramer P**, Peterson CL, Eustermann S, Hopfner KP, Korber P.  
Ruler elements in chromatin remodelers set nucleosome array spacing and phasing.  
*Nat Commun*. 2021 May 28;12(1):3232.

243. Fianu I, Dienemann C, Aibara S, Schilbach S, **Cramer P**.  
Cryo-EM structure of mammalian RNA polymerase II in complex with human RPAP2.  
*Commun Biol*. 2021 May 21;4(1):606.
242. Osman S, Mohammad E, Lidschreiber M, Stuetzer A, Bazsó FL, Maier KC, Urlaub H, **Cramer P**.  
The Cdk8 kinase module regulates interaction of the mediator complex with RNA polymerase II.  
*J Biol Chem*. 2021 Jan-Jun;296:100734.
241. Rengachari S, Schilbach S, Aibara S, Dienemann C, **Cramer P**.  
Structure of the human Mediator-RNA polymerase II pre-initiation complex.  
*Nature*. 2021 Jun;594(7861):129-133.
240. Aibara S, Schilbach S, **Cramer P**.  
Structures of mammalian RNA polymerase II pre-initiation complexes.  
*Nature*. 2021 Jun;594(7861):124-128.
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.
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.
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.
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*. 2021;27(1):49-53.
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.
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.
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.
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.

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.

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.

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.

## **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.

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.

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.

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.

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.

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.

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.

220. **Cramer P**.  
Rosalind Franklin and the Advent of Molecular Biology.  
*Cell*. 2020 Aug 20;182(4):787-789.

219. Farnung L, Ochmann M, **Cramer P**.  
Nucleosome-CHD4 chromatin remodeller structure maps human disease mutations.  
*Elife*. 2020 Jun 16;9:e56178.
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 Jul;27(7):668-677.
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 Jul;52(7):655-661.
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Selective Mediator dependence of cell-type-specifying transcription.  
*Nat Genet*. 2020 Jul;52(7):719-727.
215. Hillen HS, Kokic G, Farnung L, Dienemann C, Tegunov D, **Cramer P**.  
Structure of replicating SARS-CoV-2 polymerase.  
*Nature*. 2020 Aug;584(7819):154-156.
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Nucleosome-bound SOX2 and SOX11 structures elucidate pioneer factor function.  
*Nature*. 2020 Apr;580(7805):669-672.
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An experimentally generated peptide database increases the sensitivity of XL-MS with complex samples.  
*J Proteomics*. 2020 May 30;220:103754.
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Structure of SWI/SNF chromatin remodeller RSC bound to a nucleosome.  
*Nature*. 2020 Mar;579(7799):448-451.
211. Wang H, Dienemann C, Stützer A, Urlaub H, Cheung AM, **Cramer P**.  
Structure of transcription coactivator SAGA.  
*Nature*. 2020, Jan;577(7792):717-720.
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**

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Structural basis of Poxvirus transcription: transcribing and capping Vaccinia complexes.  
*Cell*. 2019 Dec 12;179(7):1525-1536.
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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  
*Nat Struct Mol Biol*. 2020 Jan;27(1):8-13.

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Eukaryotic transcription turns 50.  
*Cell*. 2019 Oct 31;179(4):808-812.
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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.
201. Kokic G, Chernev A, Tegunov D, Dienemann C, Urlaub H, **Cramer P.**  
Structural basis of TFIIH activation for nucleotide excision repair.  
*Nat Commun*. 2019 Jun 28;10(1):2885.
200. Chen Y, **Cramer P.**  
Structure of the super-elongation complex subunit AFF4 C-terminal homology domain reveals requirements for AFF homo- and heterodimerization.  
*J Biol Chem*. 2019 May 30. pii: jbc.RA119.008577.
199. Sohrabi-Jahromi S, Hofmann K, Boltendahl A, Roth C, Gressel S, Baejen C, Soeding J, **Cramer P.**  
Transcriptome maps of general eukaryotic RNA degradation factors.  
*Elife*. 2019 May 28;8. pii: e47040.
198. Wachutka L, Caizzi L, Gagneur J, **Cramer P.**  
Global donor and acceptor splicing site kinetics in human cells.  
*Elife*. 2019 Apr 26;8. pii: e45056.
197. Baluapuri A, Hofstetter J, Dudvarski Stankovic N, Endres T, Bhandare P, Vos SM, Adhikari B, Schwarz JD, Narain A, Vogt M, Wang SY, Düster R, Jung LA, Vanselow JT, Wiegering A, Geyer M, Maric HM, Gallant P, Walz S, Schlosser A, **Cramer P**, Eilers M, Wolf E.  
MYC Recruits SPT5 to RNA Polymerase II to Promote Processive Transcription Elongation.  
*Mol Cell*. 2019 May 16;74(4):674-687.e11.
196. Jones JL, Hofmann KB, Cowan AT, Temiakov D, **Cramer P**, Anikin M.  
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.  
*Cell*. 2019 Jan 10;176(1-2):182-197.e23.
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Structure of transcribing RNA polymerase II-nucleosome complex.  
*Nat Commun*. 2018 Dec 21;9(1):5432.

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

## **2018**

192. Zhu F, Farnung L, Kaasinen E, Sahu B, Yin Y, Wei B, Dodonova SO, Nitta KR, Morgunova E, Taipale M, **Cramer P**, Taipale J.  
The interaction landscape between transcription factors and the nucleosome.  
*Nature*. 2018 Oct; 562(7725):76-81.

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The APT complex is involved in non-coding RNA transcription and is distinct from CPF.  
*Nucleic Acids Res*. 2018 Sep 21.

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Structural basis of mitochondrial transcription.  
*Nat Struct Mol Biol*. 2018 Sep;25(9):754-765.

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Structure of paused transcription complex Pol II-DSIF-NELF.  
*Nature*. 2018 Aug;560(7720):601-606.

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Structure of activated transcription complex Pol II-DSIF-PAF-SPT6.  
*Nature*. 2018 Aug;560(7720):607-612.

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*Nat Struct Mol Biol*. 2018 Sep;25(9):833-840.

186. La Manno G, Soldatov R, Zeisel A, Braun E, Hochgerner H, Petukhov V, Lidschreiber K, Kastri ME, Lönnerberg P, Furlan A, Fan J, Borm LE, Liu Z, van Bruggen D, Guo J, He X, Barker R, Sundström E, Castelo-Branco G, **Cramer P**, Adameyko I, Linnarsson S, Kharchenko PV.  
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*Nature*. 2018 Aug;560(7719):494-498.

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Distinct Mechanisms of Transcription initiation by RNA Polymerases I and II.  
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*J Biol Chem*. 2018 May 11; 293(19):7189-7194.

## **2017**

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Structural Basis of Mitochondrial Transcription Initiation.  
*Cell*. 2017 Nov 16; 171(5):1072-1081.

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*Nature*. 2017 Nov 9; 551(7679):204-209.

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Mechanism of RNA polymerase II stalling by DNA alkylation.  
*Proc Natl Acad Sci U S A*. 2017 Oct 30; 114(46):12172-12177.
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Mechanism of Transcription Ant-termination in Human Mitochondria.  
*Cell*. 2017 Nov 16; 171(5):1082-1093.
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*Elife*. 2017 Oct 10;6:e29736.
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Structure of a transcribing RNA polymerase II-DSIF complex reveals a multidentate DNA-RNA clamp.  
*Nat Struct Mol Biol*. 2017 Oct; 24(10):809-815.
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Structural molecular biology – a personal reflection on the occasion of John Kendrew's 100<sup>th</sup> birthday.  
*J Mol Biol*. 2017 Aug 18; 429(17):2603-2610.
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Conserved RNA polymerase II initiation complex structure.  
*Curr Opin Struct Biol*. 2017 Apr 21;47:17-22.
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Architecture of a transcribing-translating expressome.  
*Science*. 2017 Apr 14;356(6334):194-197.
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TT-seq captures enhancer landscapes immediately after T-cell stimulation.  
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## **2016**

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