

## Patrick Cramer – List of publications in Medline (Sept. 26, 2017)

### 2017

179. S. Schilbach, M. Hantsche, D. Tegunov, C. Dienemann, C. Wigge, H. Urlaub, **P. Cramer**. Structures of transcription pre-initiation complex with TFIID and Mediator. *Nature*, in press.
178. Farnung L, Vos S, Wigge, C, **Cramer P**. Nucleosome–Chd1 structure and implications for chromatin remodelling. *Nature*, in press.
177. Bernecky C, Plitzko JM, **Cramer P**. Structure of a transcribing RNA polymerase II-DSIF complex reveals a multidentate DNA-RNA clamp. *Nat Struct Mol Biol*. 2017 Sep 11. doi: 10.1038/nsmb.3465.
176. Xu Y, Bernecky C, Lee CT, Maier KC, Schwalb B, Tegunov D, Plitzko JM, Urlaub H, **Cramer P**. Architecture of the RNA polymerase II-Paf1C-TFIIS transcription elongation complex. *Nat Commun*. 2017 Jun 6; 8:15741. doi: 10.1038/ncomms15741.
175. Battaglia S, Lidschreiber M, Baejen C, Torkler P, Vos SM, **Cramer P**. RNA-dependent chromatin association of transcription elongation factors and Pol II CTD kinases. *Elife*. 2017 May 24;6. doi: 10.7554/eLife.25637.
174. **Cramer P**. 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. doi: 10.1016/j.jmb.2017.05.007. Epub 2017 May 10.
173. Nozawa K, Schneider TR, **Cramer P**. Core Mediator structure at 3.4 Å extends model of transcription initiation complex. *Nature*. 2017 May 11;656(7653):248-251. doi: 10.1038/nature22328. Epub 2017 May 3.
172. Hantsche M, **Cramer P**. Conserved RNA polymerase II initiation complex structure. *Curr Opin Struct Biol*. 2017 Apr 21; 47:17-22. doi: 10.1016/j.sbi.2017.03.013.
171. Kohler R, Mooney RA, Mills DJ, Landick R, **Cramer P**. Architecture of a transcribing-translating expressome. *Science*. 2017 Apr 14; 356(6334):194-197. doi: 10.1126/science.aal.3059.
170. Wittmann S, Renner M, Watts BR, Adams O, Huseyin M, Baejen C, El Omari K, Kilchert C, Heo DH, Kecman T, **Cramer P**, Grimes JM, Vasiljeva L. The conserved protein Seb1 drives transcription termination by binding RNA polymerase II and nascent RNA. *Nat Commun*. 2017 Apr 3; 8:14861. doi: 10.1038/ncomms14861.
169. Shetty A, Kallgren SP, Demel C, Maier KC, Spatt D, Alver BH, **Cramer P**, Park PJ, Winston F. Spt5 Plays Vital Roles in the Control of Sense and Antisense Transcription Elongation.

*Mol Cell*. 2017 Apr 6; 66(1):77-88.e5. doi: 10.1016/j.molcel.2017.02.023. Epub 2017 Mar 30.

168. Engel C, Gubbey T, Neyer S, Sainsbury S, Oberthuer C, Baejen C, Bernecky C, **Cramer P**.  
Structural Basis of RNA Polymerase I Transcription Initiation.

*Cell*. 2017 Mar 23; 169(1):120-131.e22. doi: 10.1016/j.cell.2017.03.003.

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Genome-wide Analysis of RNA Polymerase II Termination at Protein-Coding Genes.

*Mol Cell*. 2017 Apr 6; 66(1):38-49.e6. doi: 10.1016/j.molcel.2017.02.009. Epub 2017 Mar 16.

166. Michel M, Demel C, Zacher B, Schwalb B, Krebs S, Blum H, Gagneur J, **Cramer P**.

TT-seq captures enhancer landscapes immediately after T-cell stimulation.

*Mol Syst Biol*. 2017 Mar 7; 13(3):920. doi: 10.15252/msb.20167507.

165. Zacher B, Michel M, Schwalb B, **Cramer P**, Tresch A, Gagneur J.

Accurate Promoter and Enhancer Identification in 127 ENCODE and Roadmap Epigenomics Cell Types and Tissues by GenoSTAN.

*PLoS One*. 2017 Jan 5; 12(1):e0169249. doi: 10.1371/journal.pone.0169249. eCollection 2017.

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Structure of RNA polymerase I transcribing ribosomal DNA genes.

*Nature*. 2016 Nov 14; 540(7634):607-10. doi: 10.1038/nature20561.

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Nucleosomal arrangement affects single-molecule transcription dynamics.

*Proc Natl Acad Sci USA*. 2016 Oct 24; 113(45):12733-8. doi: 10.1073/pnas.1602764113.

162. Hillenbrand P, Maier KC, **Cramer P**, Gerland U.

Inference of gene regulation functions from dynamic transcriptome data.

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Structure determination of transient transcription complexes.

*Biochem Soc Trans*. 2016 Aug 15; 44(4):1177-82. doi: 10.1042/BST20160079. (Review)

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RNA polymerase I-Rrn3 complex at 4.8 Å resolution.

*Nat Commun*. 2016 Jul 05; 7:12129. doi: 10.1038/ncomms12129.

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Architecture and RNA binding of the human negative elongation factor.

*Elife*. 2016 Jun 10; 5. doi: 10.7554/eLife.14981.

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TT-seq maps the human transient genome.

*Science*. 2016 Jun 3; 352(6290):1225-8. doi: 10.1126/science.aad9841.

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Transcription initiation complex structures elucidate DNA opening.

*Nature*. 2016 May 19; 533(7603):353-8. doi: 10.1038/nature17990. Epub 2016 May 11.

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Mechanisms of backtrack recovery by RNA polymerases I and II.  
*Proc Natl Acad Sci USA*. 2016 Mar 15; 113(11):2946-51. doi: 10.1073/pnas.1517011113.

154. Eser P, Wachutka L, Maier KC, Demel C, Boroni M, Iyer S, **Cramer P**, Gagneur J.  
Determinants of RNA metabolism in the *Schizosaccharomyces pombe* genome.  
*Mol Syst Biol*. 2016 Feb 16; 12(2):857. doi: 10.15252/msb.20156526.

153. Plaschka C, Nozawa K, **Cramer P**.  
Mediator Architecture and RNA Polymerase II Interaction.  
*J Mol Biol*. 2016 Jun 19; 428(12):2569-74. doi: 10.1016/j.jmb.2016.01.028. Epub 2016 Feb 3.

152. Bernecky C, Herzog F, Baumeister W, Plitzko JM, **Cramer P**.  
Structure of transcribing mammalian RNA polymerase II.  
*Nature*. 2016 Jan 28; 529(7587):551-4. doi: 10.1038/nature16482. Epub 2016 Jan 20.

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Structure of GPN-loop GTPase Npa3 and implications for RNA polymerase II assembly.  
*Mol Cell Biol*. 2015 Dec 28; 36(5):820-31. doi: 0.1128/MCB.01009-15.

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An alternative RNA polymerase I structure reveals a dimer hinge.  
*Acta Crystallogr D Biol Crystallogr*. 2015 Sep; 71(Pt 9):1850-5. doi: 10.1107/S1399004715012651.  
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Structure of Ctk3, a subunit of the RNA polymerase II CTD kinase complex, reveals a non-canonical CTD-interacting domain fold.  
*Proteins*. 2015 Oct; 83(10):1849-58. doi: 10.1002/prot.24869. Epub 2015 Aug 24.

148. Martinez-Rucobo FW, Kohler R, van de Waterbeemd M, Heck AJ, Henemann M, Herzog F, Stark H, **Cramer P**.  
Molecular Basis of Transcription-Coupled Preo-mRNA Capping.  
*Mol Cell*. 2015 Jun 18; 58(6):1079-89. doi: 10.1016/j.molcel.2015.04.004. Epub 2015 May 7.

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A model for transcription initiation in human mitochondria.  
*Nucleic Acids Res*. 2015 Apr 20; 43(7):3726-35. doi: 10.1093/nar/gkv235. Epub 2015 Mar 23.

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*Nat Rev Mol Cell Biol*. 2015 Mar; 16(3):129-43. doi: 10.1038/nrm3952. Epub 2015 Feb 18.

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BRF1 mutations alter RNA polymerase III-dependent transcription and cause neurodevelopmental anomalies.  
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*Mol Cell.* 2014 Sep 4; 55(5):745-757. doi: 10.1016/j.molcel.2014.08.005

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137. Schulz D, Pirkl N, Lehmann E, **Cramer P**.  
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*Nucleic Acids Res.* 2014 Apr; 42(6):4043-55. doi: 10.1093/nar/gkt1392. Epub 2014 Jan 20.

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*Proc Natl Acad Sci USA.* 2012 Nov 20; 109(47):19232-7. doi: 10.1073/pnas.1211665109. Epub 2012 Nov 6.
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