

# Patrick Cramer – Curriculum vitae (December 07, 2016)

## Personal data

Date of birth February 3, 1969  
Place of birth Stuttgart, Germany  
Nationality German  
Marital status Married, two children (born 1997, 2000)

## Address

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## Education

1998	EMBL and Universität Heidelberg	Dr. rer. nat. ' <i>summa cum laude</i> '
1995	Universität Heidelberg	Diploma in Chemistry
7/94-3/95	University of Cambridge, UK	Research student with A.R. Fersht
10/92-3/93	University of Bristol, UK	ERASMUS research student with A.G. Orpen
1992-1995	Universität Heidelberg	Student of Chemistry
1989-1991	Universität Stuttgart	Student of Chemistry

## Positions

2014-now	MPI for Biophysical Chemistry	Director
2010-2013	Universität München (LMU)	Director, Department of Biochemistry
2004-2013	Universität München (LMU)	Director, Gene Center Munich
2004-2014	Universität München (LMU)	Professor of Biochemistry
2001-2003	Universität München LMU	Tenure-track Professor of Biochemistry
1999-2001	Stanford University, USA	Postdoctoral fellow with R.D. Kornberg
1995-1998	EMBL Grenoble, France	Predocctoral fellow with C.W. Müller

**Awards and honours**

- 2016 Centenary Award of the British Biochemical Society
- 2016 Advanced Grant 'TRANSREGULON' of the European Research Council (ERC)
- 2015 Arthur-Burkhardt-Prize
- 2015 Sumner Lecturship, Cornell University, USA
- 2015 Guest professor, Karolinska Institutet, Stockholm, Sweden
- 2012 Cross of Merit of the Federal Republic of Germany (Bundesverdienstkreuz)
- 2012 Paula und Richard von Hertwig Prize
- 2012 Vallee Foundation Visiting Professorship
- 2011 Feldberg Foundation Prize
- 2010 Member of the Max Planck Society
- 2010 Advanced Grant 'TRANSIT' of the European Research Council (ERC)
- 2010 Medal of Honour of the Robert Koch Institute
- 2009 Familie-Hansen-Prize of the Bayer Science & Education Foundation
- 2009 Ernst-Jung-Prize for Medicine
- 2009 Elected member of the European Molecular Biology Society (EMBO)
- 2009 Member of the German National Academy of Sciences (Leopoldina)
- 2008 Member of the Center for Advanced Studies of the LMU
- 2008 Bijvoet Medal of the University of Utrecht
- 2007 LMU*excellent* Research Professorship
- 2007 Philip Morris Research Award
- 2007 Member of the LMU Center for Advanced Studies
- 2006 Gottfried Wilhelm Leibniz Award of the Deutsche Forschungsgemeinschaft
- 2004 Eppendorf Award for Young European Investigators
- 2002 Glaxo-Smith-Kline Science Award for Basic Medical Research
- 2000 EMBO Young Investigator Award
- 2000 MSC Future Investigator Award

**Five selected recent publications**

- Schwalb B, Michel M, Zacher B, Frühauf K, Demel C, Tresch A, Gagneur J, **Cramer P**.  
TT-Seq maps the human transient transcriptome.  
*Science*. 2016 Jun 3; 352(6290):1225-8. Doi: 10.1126/science.aad9841.
- Plaschka C, Hantsche M, Dienemann C, Burzinski C, Plitzko J, **Cramer P**.  
Transcription initiation complex structures elucidate DNA opening.  
*Nature*. 2016 May 11; 533(7603):353-8. Doi: 10.1038/nature17990.
- Bernecky C, Herzog F, Baumeister W, Plitzko JM, **Cramer P**.  
Structure of transcribing mammalian RNA polymerase II.  
*Nature*. 2016 Jan 20; 529(7587):551-4. Doi: 10.1038/nature16482
- Plaschka C, Larivière L, Wenzek L, Seizl M, Hemann M, Tegunov D, Petrotchenko EV, Borchers CH, Baumeister W, Herzog F, Villa E, **Cramer P**.  
Architecture of the RNA polymerase II-Mediator core initiation complex.  
*Nature*. 2015 Feb 19; 518(7539):376-80. Doi: 10.1038/nature14229.
- Schulz D, Schwalb B, Kiesel A, Baejen C, Torkler P, Gagneur J, Soeding J, **Cramer P**.  
Transcriptome Surveillance by Selective Termination of Noncoding RNA Synthesis.  
*Cell*. 2013 Nov 21; 155(5):1075-87. Doi: 10.1016/j.cell.2013.10.024.

**Publications (see attached list)**

164 Medline-listed publications, incl. 24 original papers in *Nature*, *Science* & *Cell*  
30 Press releases and 8 other publications

**Invited talks (see attached list)**

~400 invited lectures and seminars, of which about 40% were abroad

**Professional service**

- Coordinator, International Max Planck Research School for Genome Science (2017-)
- Co-organizer, EMBO conference on Chromatin and Epigenetics (2017)
- Member, Scientific advisory board, Beijing Advanced Innovation Center for Structural Biology at Tsinghua University (2017-)
- Editorial Board Member, *Cell* (2016-)
- Chair, Council of the European Molecular Biology Laboratory EMBL (2016-)
- Member, Scientific Advisory Board, Max Delbrück Center for Molecular Medicine (2016-)
- Panel reviewer, Helmholtz Institute for RNA-based Infection Biology, Würzburg (2016)
- Expert member, evaluation of Wellcome Trust Center for Cell Biology, UK (2016)
- Ad hoc advisor, Medical Faculty of the University of Cologne (2016)
- Co-organizer and session chair, conference 'Life?', Volkswagen Foundation (2015)
- Co-organizer, Max Planck Symposium on 'Biological Networks' in Berlin (2016)
- Organizer, Cold Spring Harbor Meeting on Mechanisms of eukaryotic transcription (2015)
- Member, Board of reviewing editors, *eLife* (2015-2017)
- Organizer, Keystone symposium 'Hybrid methods in structural biology', Tahoe, USA (2015).
- Organizer, Symposium "Current advances in electron microscopy" (2015)
- Member, award committee for the Otto-Bayer-Prize, Bayer Science and Education Foundation (2015-)
- Ad hoc advisory board member, Friedrich Miescher Institute, Basel, Switzerland (2014)
- Member, review panel, Berlin Institutes of Health BIH (2013)
- Member and Vice-chair, Council of the European Molecular Biology Laboratory (since 2012)
- Tutor (Vertrauensdozent), Elite Academy of Bavaria (Eliteakademie Bayern, since 2012)
- Initiator and coordinator, Bavarian Research Center for Molecular Biosystems (since 2011)
- Member, Scientific Advisory Board of the Biochemistry Center Heidelberg (since 2011)
- Director, LMU Department of Biochemistry (since 2010)
- Member, editorial board of *Transcription* (since 2010)
- Member, council (Zukunftsrat) of the Bavarian State Government (2010-2011)
- Organizer, EMBO conference on gene transcription in yeast, St. Feliu, Spain, 2010
- Member, Scientific Advisory Board of the Max-Planck-Institute for Developmental Biology, Tübingen (since 2009)
- Member, editorial board of *The EMBO Journal* (since 2009)
- Representative of the LMU for construction of a new Research Center for Molecular Biosystems (Baubeauftragter, since 2009)
- Member, selection committee for the Heinz-Maier-Leibniz-Prize (since 2008)
- Member, scientific-technological council of the Bavarian State Government (2008-2009)
- Coordinator, Research grant network Sonderforschungsbereich SFB646 (since 2008)

- Dean, Faculty of Chemistry and Pharmacy of the LMU (2007-2009)
- Member, research board (Forschungsrat) of the LMU (since 2007)
- Executive board member, German National Cluster of Excellence "Center for Integrated Protein Science Munich" (CIPSM, since 2006)
- Vice coordinator, Sonderforschungsbereich SFB646 (2005-2007)
- Member, Cluster of excellence "Nanosystems Initiative Munich" (NIM, since 2006)
- Director, Gene Center Munich (since 2004)
- Member, Swiss Light Source Scientific Advisory Board (2004-2006)
- Board member, LMU Dept. of Chemistry and Biochemistry (2005-2007)
- Board member, LMU Faculty of Chemistry and Pharmacy (since 2002)
- Member of search committees (and often chair) at LMU, Technical University Munich and the Max-Planck Society (since 2001)
- Member, board of the Research grant network Transregio 5 "Chromatin" (since 2003)
- Referee for beamtime allocation at the Swiss light source (SLS) in 2004
- Referee for over 20 different scientific journals, including Science, Nature, Cell (since 2000)
- Referee for funding bodies including DFG, NSF, NIH, Wellcome Trust, EU, AvH, BIF etc.
- External reviewer for the Dept. of Structural Biology at the Paul-Scherrer-Institute (2002)
- Member, Deutsche Gesellschaft für Biochemie und Molekularbiologie GBM (since 2001)
- Member, Center for Nanoscience CeNS Munich (since 2002)
- Public relations activities incl. open days, newspapers, TV and radio programs (since 2000)

### **Teaching and training**

- Initiated International Max Planck Research School for Genome Science
- Supervised >20 Postdocs, >50 PhD students, >50 Master, Diploma and Bachelor research students (incl. current lab members, excl. external students and internships)
- Member of GGNB graduate programs 'Molecular Biology', 'Physics and biology of complex systems', 'Biomolecules', and 'Cells'
- Established course 'Master of Science in Biochemistry' at the LMU Munich
- Chair of the 'Prüfungsausschuß' LMU Master program in Biochemistry 2004-2006
- Undergraduate lecture series in basic and cellular biochemistry, structure and function of macromolecules, life cycle of proteins, flow of genetic information, structural biology
- Mentored independent junior research group leaders at the Gene Center Munich
- Organized practical courses in basic and advanced biochemistry
- Conducted journal clubs on current topics in structural biology and gene expression
- Organized international seminar series on current topics in the life sciences
- Organized several conferences and symposia in Munich and elsewhere
- Carried out numerous oral examinations (Bachelor, Master, Diploma, PhD)

### **Extramural funding**

- Acquired Euro 33.4 Mio extramural funding in 2003-2012
- Member of various extramural funding networks and schools, including SFB860 'Integrative structural biology of transient macromolecular assemblies', SPP1935 'Deciphering the mRNP code', and previously SFB646 'Networks in genome expression and maintenance', SFB960 'Ribosome biogenesis', Transregio 5 'Chromatin', Cluster of excellence 'Center for

Integrated Protein Science Munich', Cluster of excellence 'Nanosystems Initiative Munich',  
Graduiertenkolleg 'Structural biology hybrid methods', 'Graduate school for Quantitative  
Biosciences Munich', IMPRS 'From Biology to Medicine'.

- Funding sources: DFG, ERC, Volkswagen Foundation, EU FP6 and FP7, EMBO, Marie-Curie Foundation, Boehringer Ingelheim Fonds, Fonds der chemischen Industrie, Jung-Stiftung, Elitenetzwerk Bayern, Freistaat Bayern, Humboldt Foundation, Roche.