

# Claudius Frank Kratochwil, PhD

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## EDUCATION

- 07/2008 – 04/2013 **PhD in Neurobiology, Friedrich Miescher Institute, Basel, Switzerland**  
"Transcriptional and epigenetic regulation of neuronal migration and circuitry development in the murine hindbrain"  
Supervisor: Prof. Dr. Filippo Rijli – Date: 25.April 2014 – Grade: 6.0 (6.0=best); summa cum laude
- 09/2007 – 07/2008 **Diploma (Master) thesis, Albert-Ludwigs-University Freiburg, Germany**  
"Characterization of the catecholaminergic circuitry in zebrafish"  
Supervisor: Prof. Dr. Wolfgang Driever
- 10/2004 – 08/2008 **Diploma studies in biology, Albert-Ludwigs-University Freiburg, Germany**  
Main subjects: Developmental Biology, Neurobiology, Animal Physiology, Neuropathology  
Grade: 1.0 (1.0=best)
- 08/2003 – 05/2004 **Civilian service, Youth-Centre Freiburg-Haslach, Germany**  
Alternative civilian service as option to compulsory military service
- 08/1994 – 06/2003 **University entrance qualification (Abitur), AKG Bensheim, Germany**  
Main subjects: Mathematics, Biology

## ACADEMIC APPOINTMENTS

- 07/2013 – **Postdoctoral fellow, Faculty of Biology & Zukunftskolleg, University of Konstanz, Germany**  
Host: Prof. Dr. Axel Meyer
- 07/2008 – 06/2013 **Doctoral student, Friedrich Miescher Institute, Basel, Switzerland**  
Advisor: Prof. Dr. Filippo Rijli
- 09/2007 – 07/2008 **Diploma (Master) thesis, Albert-Ludwigs-University Freiburg, Germany**  
Advisor: Prof. Dr. Wolfgang Driever
- 10/2006 – 07/2007 **Internship, Institute for Biology, Albert-Ludwigs-University Freiburg, Germany**  
Supervisor: Prof. Dr. Wolfgang Driever
- 08/2006 – 10/2006 **Internship, Neuroscience Center, University of Helsinki, Finland**  
Supervisor: Prof. Dr. Eero Castrén
- 03/2006 – 04/2006 **Internship, Neuropathology Department, University Hospital Freiburg, Germany**  
Supervisor: Prof. Dr. Benedikt Volk
- 08/2005 – 10/2005 **Internship, Max Planck Institute for Brain Research, Frankfurt, Germany**  
Supervisor: Prof. Dr. Ralf Galuske / Prof Dr. Wolf Singer

**RESEARCH GRANTS (external)**

2016 – 2019	<b>Research Grant</b> – German Research Foundation (DFG), KR 4670/2-1	325'600 €
2016 – 2019	<b>Elite Program for Postdocs</b> – Baden-Württemberg Stiftung	110'000 €
		<hr/> 435'600 €

**RESEARCH GRANTS (external; submitted / under review)**

2017 – 2021	<b>Scientific Networks Grant</b> – German Research Foundation (DFG) <i>(with D. Farine, C. Nadell, K. Gotanda, K. Laskowski, P.O. Montiglio)</i>	65'000 €
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**RESEARCH GRANTS (internal)**

2017	<b>Third party funding reward</b> – University of Konstanz	1'800 €
2016 – 2017	<b>Co-Funding Program</b> – Zukunftskolleg, University of Konstanz	12'000 €
2016	<b>Investment Program for Research</b> – Zukunftskolleg, University of Konstanz	48'800 €
2016	<b>Young Scholar Fund</b> – University of Konstanz	23'000 €
2015 – 2016	<b>Interim Grant</b> – Zukunftskolleg, University of Konstanz	32'700 €
2015	<b>Reinvestment Program</b> – University of Konstanz <i>(with J. Woltering)</i>	9'700 €
2015	<b>Student Assistance Program</b> – Zukunftskolleg, University of Konstanz	4'400 €
2014	<b>Co-Funding Program</b> – Zukunftskolleg, University of Konstanz	10'000 €
2014	<b>Co-Funding Program</b> – Zukunftskolleg, University of Konstanz <i>(with J. Torres-Dowdall)</i>	1'000 €
2014	<b>Student Assistance Program</b> – Zukunftskolleg, University of Konstanz	1'800 €
2013 – 2015	<b>Research Allowance</b> – Zukunftskolleg, University of Konstanz	6'000 €
2013	<b>Co-Funding Program</b> – Zukunftskolleg, University of Konstanz	2'500 €
		<hr/> 151'900 €

**AWARDS AND FELLOWSHIPS**

2013 – 2015	<b>Marie Curie Zukunftskolleg Incoming Fellowship (ZIF-MC)</b> Marie-Curie Program / Zukunftskolleg Konstanz, Grant no. 291784	~72'000 €
2013 – 2015	<b>Early Postdoc.Mobility Fellowship</b> Swiss National Science Foundation, Grant no. SNSF P2BSP3_148629	~55'000 €
2008 – 2013	<b>Scholarship "International PhD Program"</b> Friedrich Miescher Institute & Novartis Research Foundation, Basel	~150'000 €
		<hr/> ~277'000 €

**FELLOWSHIPS (as host / co-host)**

2014 – 2018	<b>China Scholarship Council (CSC) fellowship for Yipeng Liang</b> as co-supervisor with Prof. Dr. Axel Meyer
2013 – 2017	<b>Hector Fellowship for Maggie Sefton</b> as co-supervisor with Prof. Dr. Axel Meyer

## PROFESSIONAL MEMBERSHIPS (societies, faculties, programs)

2016 –	Member, German Zoological Society / Deutsche Zoologische Gesellschaft (DZG)
2015 –	Faculty Member, International Max Planck Research School (IMPRS) for Organismal Biology, Max Planck Institute for Ornithology and University of Konstanz, Germany
2015 –	Fellow, Baden-Württemberg Elite Program
2014 –	Principal Investigator, KoRS Chemical Biology graduate school, University of Konstanz, Germany
2014 –	Member, Society for Molecular Biology and Evolution (SMBE)
2014 –	Member, German Genetics Society / Gesellschaft für Genetik (GfG)
2013 –	Fellow, Zukunftskolleg, University of Konstanz, Germany

## FURTHER EDUCATION

2015 – 2016	<b>Certificate “Didactics in Higher Education”</b> Center of Higher Didactics Baden-Württemberg, University of Konstanz, Germany
2015 – 2016	<b>Certificate “Leadership, Management and Transfer of Knowledge”</b> Academic Staff Development, University of Konstanz, Germany

## TEACHING

WS 2016/17	<b>Lecture “Evolution and Behavior”</b> (90 min. lecture; organized by Prof. Dr. Axel Meyer) Topic: “Evolutionary Developmental Biology” 2 SWS, Bachelor level, University of Konstanz, Germany
WS 2016/17	<b>Lecture “Methods in Biology”</b> (90 min. lecture; organized by PD Dr. David Schleheck) Topic: “Methods for linking Phenotypes to Genotypes” 2 SWS, Master level, University of Konstanz, Germany
WS 2016/17	<b>Practical Course “Principles of Zoology”</b> (1/2 day course; organized by PD Dr. Sabine Kreissl) Topic: “Anatomy of the Rat” 3 SWS, Bachelor level, University of Konstanz, Germany
WS 2016/17	<b>Seminar “Advanced Seminar in Evolutionary and Developmental Biology”</b> (Co-organizer: Dr. Darrin Hulsey) 2 SWS, Bachelor and Master level, University of Konstanz, Germany
WS 2016/17	<b>Seminar “Arrival of the fittest: How developmental changes contribute to Evolution”</b> (Co-organizer: Dr. Darrin Hulsey) 2 SWS, Bachelor and Master level, University of Konstanz, Germany
SS 2016	<b>Lecture “Gene technology”</b> (90 min. lecture) Topic: “Gene technology in Vertebrates” Refresher course for high school teachers, University of Konstanz, Germany
SS 2016	<b>Seminar “Evolution and Zoology”</b> (Co-organizer: Dr. Darrin Hulsey) 2 SWS, Bachelor and Master level, University of Konstanz, Germany
SS 2016	<b>Seminar “Genome Evolution”</b> (Co-organizer: Dr. Darrin Hulsey) 2 SWS, Master level, University of Konstanz, Germany
SS 2016	<b>Lectures “Advanced Course Molecular Evolutionary Biology”</b> (90 min. lectures; organized by Prof. Dr. Axel Meyer) Topics: “Epigenetics and Evolution”, “How to create efficient figures” 5 SWS, Master level, University of Konstanz, Germany

SS 2016	<b>Practical Course "Advanced Course Molecular Evolutionary Biology"</b> (Assistant; organized by Prof. Dr. Axel Meyer) 10 SWS, Master level, University of Konstanz, Germany
WS 2015/16	<b>Lecture "Evolution and Behavior"</b> (90 min. lecture; organized by Prof. Dr. Axel Meyer) Topic: "Evolutionary Developmental Biology" 2 SWS, Bachelor level, University of Konstanz, Germany
WS 2015/16	<b>Lecture "Methods in Biology"</b> (90 min. lecture; organized by PD Dr. David Schleheck) Topic: "Methods for linking Phenotypes to Genotypes" 2 SWS, Master level, University of Konstanz, Germany
WS 2015/16	<b>Seminar "Advanced Seminar in Evolutionary and Developmental Biology"</b> (Co-organizer: Dr. Darrin Hulsey) 2 SWS, Bachelor and Master level, University of Konstanz, Germany
WS 2015/16	<b>Seminar "Innovations in Vertebrate Evolution"</b> (Co-organizer: Dr. Darrin Hulsey) 2 SWS, Bachelor and Master level, University of Konstanz, Germany
SS 2015	<b>Lecture series "Evolutionary Organismal Biology"</b> , (90 min. lecture; organized by Dr. Robert Kraus) Topic: "Transcriptional Regulation, Epigenetics and Evolution" 2 SWS, Master level, University of Konstanz, Germany
SS 2015	<b>Lectures "Advanced Course Molecular Evolutionary Biology"</b> (90 min. lectures; organized by Prof. Dr. Axel Meyer) Topics: "Evolution of sensory systems", "Epigenetics and Evolution", "How to create efficient figures" 5 SWS, Master level, University of Konstanz, Germany
SS 2015	<b>Practical Course "Advanced Course Molecular Evolutionary Biology"</b> (Assistant; organized by Prof. Dr. Axel Meyer) 10 SWS, Master level, University of Konstanz, Germany
SS 2015	<b>Seminar "Evolution and Zoology"</b> 2 SWS, Bachelor and Master level, University of Konstanz, Germany
WS 2014/15	<b>Lecture "Evolution and Behavior"</b> (90 min. lecture; organized by Prof. Dr. Axel Meyer) 2 SWS, Bachelor level, University of Konstanz, Germany
WS 2014/15	<b>Seminar "Advanced Seminar in Evolutionary and Developmental Biology"</b> (Co-organizer: Prof. Dr. Axel Meyer) 2 SWS, Bachelor and Master level, University of Konstanz, Germany
SS 2014	<b>Lecture "Advanced Course Molecular Evolutionary Biology"</b> (3 x 90 min. lectures; organized by Prof. Dr. Axel Meyer) Topics: "Evolution of sensory systems", "Epigenetics and Evolution", "How to create efficient figures" 5 SWS, Master level, University of Konstanz, Germany
SS 2014	<b>Lecture series "Evolutionary Organismal Biology"</b> , (90 min. lecture; organized by PD Dr. Christoph Kleineidam) Topic: "Transcriptional Regulation, Epigenetics and Evolution" 2 SWS, Master level, University of Konstanz, Germany
SS 2014	<b>Practical Course "Advanced Course Molecular Evolutionary Biology"</b> (Assistant; organized by Prof. Dr. Axel Meyer) 10 SWS, Master level, University of Konstanz, Germany
SS 2014	<b>Seminar "Evolution and Zoology"</b> (Co-organizer: Prof. Dr. Axel Meyer) 2 SWS, Bachelor and Master level, University of Konstanz, Germany
WS 2013/14	<b>Seminar "Advanced Seminar in Evolutionary and Developmental Biology"</b> (Co-organizer: Prof. Dr. Axel Meyer) 2 SWS, Bachelor and Master level, University of Konstanz, Germany

WS 2013/14 **Lecture "Evolution and Behavior"** (90 min. lecture; organized by Prof. Dr. Axel Meyer)  
 Topic: "Evolution of the nervous system"  
 2 SWS, Bachelor level, University of Konstanz, Germany

## TEACHING EVALUATION

SS 2016 **Seminar "Genome Evolution"** (Co-organizer: Dr. Darrin Hulsey)  
 Teaching-Learning-Index: 1.43 (Range: 1.0 – 5.0; 1.0=best; Department average for seminars: 2.12)  
 Satisfaction: 1.50 (Range: 1.0 – 5.0; 1.0=best)

SS 2016 **Seminar "Evolution and Zoology"** (Co-organizer: Dr. Darrin Hulsey)  
 Teaching-Learning-Index: 1.74 (Range: 1.0 – 5.0; 1.0=best; Department average for seminars: 2.12)  
 Satisfaction: 1.75 (Range: 1.0 – 5.0; 1.0=best)

SS 2016 **Lecture "Evolutionary Organismal Biology"**, (90 min. lecture; organized by Dr. Robert Kraus)  
 Single Lecture evaluation: (Topic: "The genetic basis of coloration"):  
 Teaching-Learning-Index: 1.72 (Range: 1.0 – 5.0; 1.0=best; Department average for lectures: 2.01;  
 Average complete lecture series: 1.91)  
 Satisfaction: 1.75 (Range: 1.0 – 5.0; 1.0=best)

SS 2015 **Practical Course "Advanced Course Molecular Evolutionary Biology"** (Assistant; organized by Prof. Dr. Axel Meyer)  
 Teaching-Learning-Index: 1.31 (Range: 1.0 – 5.0; 1.0=best; Department average for courses: 2.03)  
 Satisfaction: 1.38 (Range: 1.0 – 5.0; 1.0=best)

## SUPERVISION

### Doctoral students (co-supervised)

- Sabine Urban, Doctoral/PhD student (BW Elite Program, Co-Supervision with Prof. Dr. Axel Meyer, 2016 – )
- Maggie Sefton, Doctoral/PhD student (Hector Fellowship, Co-Supervision with Prof. Dr. Axel Meyer, 2014 – )
- Yipeng Liang, Doctoral/PhD student (CSC Fellowship, Co-Supervision with Prof. Dr. Axel Meyer, 2014 – )

### Bachelor students (co-supervised)

- Laura Geißler, Bachelor student (Co-Supervision with Prof. Dr. Axel Meyer, 2014)
- Lukas Kaminski, Bachelor student (Co-Supervision with Prof. Dr. Axel Meyer, 2015)

### Summer students

- Victoria-Marie Cusson, Summer student (Baden-Württemberg-Ontario Fellowship, 2014)

### Student assistants

- Niklas Warwas, 2014
- Jan Gerwin, 2015 – 2016
- Laura Geißler, 2014 – 2017

## COMMITTEE WORK

- PhD Committee (2014 – ), Jennifer Knaus, Department of Chemistry & KoRS Chemical Biology graduate school, University of Konstanz, Germany

## PROFESSIONAL SERVICES

### Reviews for international scientific journals

- AIMS Genetics
- Advances in Bioinformatics
- Development
- EvoDevo
- Fish and Fisheries
- Int. Journal of Molecular Sciences
- PeerJ
- Plos One
- Scientific Reports

- eLife
- Nature Communications
- Zebrafish
- European Journal of Neuroscience
- Journal of Comparative Neurology

#### Reviews for research agencies

- Icelandic Research Fund

## COLLABORATORS

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- Dr. Aristides Arrenberg, Centre for Integrative Neuroscience, University of Tübingen, Germany
- Prof. Dr. Helmut Cölfen, University of Konstanz, Germany
- Dr. Damien Farine, Max-Planck Institute for Ornithology, Konstanz, Germany
- Dr. Kiyoko Gotanda, University of Cambridge, UK
- Dr. Irene Kalchauer, University of Basel, Switzerland
- Dr. Pierre-Olivier Montiglio, McGill University, Montreal, Canada
- Dr. Carey Nadell, Max-Planck Institute for Terrestrial Microbiology, Marburg, Germany
- Dr. Elena Sturm (née Rosseeva), University of Konstanz, Germany

## ORGANIZATION OF MEETINGS/SYMPOSIA

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2016

Symposium "Integrating the genotype-phenotype map with concepts of evolutionary-developmental biology" (with Joost Woltering)

European Society for Evolutionary Developmental Biology (EED); 26-29. July 2016, Uppsala, Sweden

## PRESENTATIONS

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#### Talks and seminars

- **Centre for Integrative Neuroscience Tübingen**, Germany, September 2016: Kratochwil CF: Coevolution of coloration patterns in cichlid fishes through convergent gene regulatory evolution
- **Society for Molecular Biology and Evolution (SMBE) Meeting**, Vienna, Austria, July 12-16 2015: Kratochwil CF and Meyer A: Novel functional approaches to study regulatory evolution in cichlid fishes.
- **Scientific Meeting of the Zukunftskolleg**, Hegne, Germany, November 2014: Kratochwil CF: The Evolution of Color Diversity.
- **Jour fixe of the Zukunftskolleg**, Konstanz, Germany, February 2014: Kratochwil CF: Evolution of transcriptional regulation during diversification and speciation in cichlids.
- **University of Geneva**, Switzerland, October 2012: Kratochwil CF: Molecular mechanisms of topographic neuronal migration and connectivity.
- **University of Konstanz**, Germany, September 2012: Kratochwil CF: Molecular mechanisms of topographic neuronal migration and connectivity.
- **Joint PhD Meeting CRG Barcelona / FMI Basel**, Barcelona, Spain, May 20-23 2011: Kratochwil CF: Transcriptional regulation of hindbrain circuitry development.

#### Poster presentations

- **Euro Evo Devo Meeting**, Uppsala, Sweden, July 26-29 2016: Sefton MS, Liang Y, Kratochwil CF, Meyer A: Tol2 Mediated Transgenesis in the Midas Cichlid Species Complex (*Amphilophus spp.*).
- **Society for Molecular Biology and Evolution (SMBE) Meeting**, Vienna, Austria, July 12-16 2015: Sefton MS, Liang Y, Kratochwil CF, Meyer A: Early development and transgenesis in the Midas cichlid (*Amphilophus spp.*) - a new model system for evo-devo research.
- **Society for Neuroscience (SFN)**, San Diego, USA, November 15-19 2010: Di Meglio T, Kratochwil CF, Vilain N,

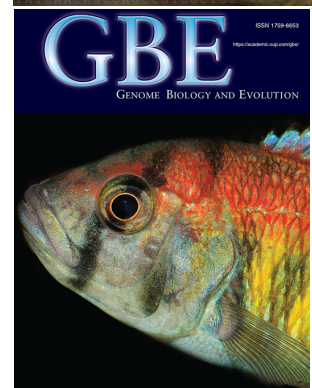
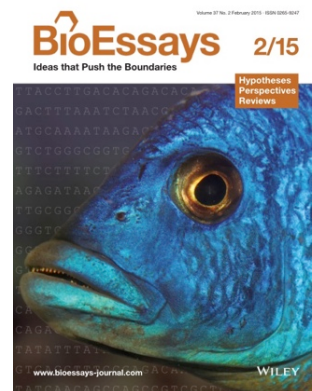
Ducret S and Rijli FM: Hox paralogue group 2 genes control distinct steps of pontine neuron tangential migration in the mouse brainstem.

- **Society for Neuroscience (SFN)**, Chicago, USA, October 17-21 2009: Kratochwil CF and Rijli FM: Generation of genetic tools to study development of myelencephalic nuclei circuitry in the mouse.
- **Joint PhD Meeting LMCB London / FMI Basel**, Emmetten, Switzerland, June 12-15 2009: Kratochwil CF and Rijli FM: Transcriptional regulation of topographic circuitry in the precerebellar system.
- **Society for Neuroscience (SFN)**, Washington D.C., USA, November 15-19 2008: Kastenhuber E, Schweitzer J, Kratochwil CF, Kern U, Ryu S. and Driever W: Establishment of catecholaminergic circuitry in the zebrafish.
- **Zebrafish Development & Genetics**, Madison, USA, June 25-29 2008: Koch P, Kratochwil CF and Driever W: Optimization of *in vivo* electroporation in the zebrafish brain.
- **Society for Neuroscience (SFN)**, San Diego, USA, November 3-7 2007: Tervonen TA, Sun X, Hokkanen M-E, Kratochwil CF, Zebryk P, Castrén E and Castrén ML: Developmental abnormalities in neocortex formation of Fmr1 knockout mouse.
- **European Zebrafish Genetics and Development**, Amsterdam, Netherlands, 12-15 Juli 2007: Koch P<sup>©</sup>, Kratochwil CF<sup>©</sup>, Ledderose J, Filippi A and Driever W: Optimization of *in vivo* electroporation in the zebrafish brain.

## LIST OF PUBLICATIONS

### Publications in peer-reviewed scientific journals

1. Tervonen TA<sup>©</sup>, Louhivuori V<sup>©</sup>, Sun X, Hokkanen M-E, [Kratochwil CF](#), Zebryk P, Castrén E and Castrén ML (2009): Aberrant differentiation of glutamatergic cells in neocortex of mouse model for fragile X syndrome. *Neurobiology of Disease* 33 (2), 250–259.
2. Kastenhuber E<sup>©</sup>, [Kratochwil CF](#)<sup>©</sup>, Ryu S<sup>©</sup>, Schweitzer J and Driever W (2010): Genetic dissection of dopaminergic and noradrenergic contributions to catecholaminergic tracts in early larval zebrafish. *The Journal of Comparative Neurology* 518 (4), 439–458.
3. Minoux M, [Kratochwil CF](#), Ducret S, Amin S, Kitazawa T, Kurihara H, Bobola N, Vilain N and Rijli FM (2013): Mouse Hoxa2 genetic analysis provides a model for microtia and auricle duplication. *Development* 140 (21), 4386-4397.
4. Di Meglio T<sup>©</sup>, [Kratochwil CF](#)<sup>©</sup>, Vilain N, Loche A, Vitobello A, Yonehara K, Roska B, Peters A, Eichmann A, Wellik D, Ducret S and Rijli FM (2013): Ezh2 orchestrates topographic tangential migration and connectivity of precerebellar neurons. *Science* 339 (6116), 204-207.
5. [Kratochwil CF](#) and Meyer A (2015): Closing the genotype-phenotype gap: Emerging technologies for evolutionary genetics in ecological model vertebrate systems. *BioEssays* 37 (2), 213-226.
6. [Kratochwil CF](#) and Meyer A (2015): Mapping active promoters by ChIP-seq profiling of H3K4me3 in cichlid fish—a first step to uncover cis-regulatory elements in ecological model teleosts. *Molecular Ecology Resources* 15 (4), 761–771.
7. [Kratochwil CF](#)<sup>©</sup>, Sefton MS<sup>©</sup> and Meyer A (2015): Embryonic and larval development in the Midas cichlid fish species flock (*Amphilophus spp.*): a new evo-devo model for the investigation of adaptive novelties and species differences. *BMC Developmental Biology* 15 (1), 12.
8. Bechara A, Laumonnerie C, Vilain N, [Kratochwil CF](#), Cankovic V, Maiorano N, Kirschmann M, Ducret S and Rijli FM (2015): *Hoxa2* selects barrelette neuron identity and connectivity in the mouse somatosensory brainstem. *Cell Reports* 13 (4), 783-797.



9. [Kratochwil CF](#)<sup>☉</sup>, Geissler L<sup>☉</sup>, Irisarri I<sup>☉</sup> and Meyer A (2015): Molecular evolution of the neural crest regulatory network in ray-finned fish. *Genome Biology and Evolution* 7 (11), 3033-3046.
10. Renier N, Dominici C, Erzurumlu R, [Kratochwil CF](#), Rijli FM, Gaspar P and Chédotal A: A mutant with bilateral whisker to barrel inputs unveils somatosensory mapping rules in the cerebral cortex. *eLife* (in press)

#### Short communications

1. [Kratochwil CF](#) and Meyer A (2015): Evolution: Tinkering within gene regulatory landscapes. *Current Biology* 25 (7), R285-R288.

#### Book chapters and comments

1. [Kratochwil CF](#) and Rijli FM (2014): The Cre/lox system to assess the development of the mouse brain, *Brain development: Methods and Protocols, Methods in Molecular Biology* (Simon G. Sprecher ed.), Springer, New York. 1082, 295–313.
2. [Kratochwil CF](#) (2015): Comment on: Forgetting – A cognitive neuroscience perspective. In: Galizia G and Schulman D (eds.), *What is Forgetting?*, Jerusalem: Magnes Press of the Hebrew University.

#### Other publications

1. [Kratochwil CF](#) (2008): Characterization of the Catecholaminergic Circuitry in Zebrafish, *Diploma Thesis*, University of Freiburg, Germany
2. [Kratochwil CF](#) (2013): Transcriptional and epigenetic regulation of neuronal migration and circuitry development in the murine hindbrain, *PhD Thesis*, University of Basel, Switzerland

#### Media appearance

1. Knauer R: Evolution im Zeitraffer. (German for “Evolution in fast motion”) *Spektrum der Wissenschaft* (2014) Nr. 4, p. 24-31

#### Bibliometrics

Google Scholar: h-index = 6, total citations = 211 (27-Mar-17)

Web of science: h-index = 5, total citations = 146 (27-Mar-17)

☉ equal contribution