

Curriculum vitae

Personal Data

Name: Nico Posnien
Date of birth: October 1, 1981
Nationality: German
Legal status: Married, 2 children
Private Address: Rohnsterrassen 8
37085 Göttingen

Researcher ID: D-1639-2012
ORCID ID: 0000-0003-0700-5595

Current working address

Georg-August-Universität Göttingen, Johann-Friedrich-Blumenbach Institut für Zoologie und Anthropologie,
Abteilung Entwicklungsbiologie, Justus-von-Liebig-Weg 11, 37077 Göttingen
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Employment

since November 2021	Group Leader, Georg-August University, Göttingen, Germany
November 2015 -November 2021	Emmy-Noether Group Leader, Georg-August University, Göttingen, Germany funded by the DFG
May 2015 – October 2015	Independent Group Leader, Department of Developmental Biology, Georg-August University, Göttingen, Germany
May 2012 – April 2015	Independent Group Leader, Department of Developmental Biology, Georg-August University, Göttingen, Germany funded by the Volkswagen Foundation (May 2012 – April 2015)
April 2012	Independent Post-doctoral Research Associate, Department of Developmental Biology, Georg-August University, Göttingen, Germany
August 2011 – March 2012	Post-doctoral Research Associate in the laboratory of Dr. Alistair P. McGregor, School of Life Sciences, Oxford Brookes University, Oxford, UK
February 2012	Research stay at Harvard University in the Lab of Cassandra Extavour
January 2010 – July 2011	Post-doctoral Research Associate in the laboratory of Dr. Alistair P. McGregor, Vetmeduni Vienna, Austria

September 2009 – December 2009 Post-doctoral Research Associate in the laboratory of Prof. Dr. Gregor Bucher, Junior Research Group Developmental Genetics, Georg-August University, Göttingen, Germany

Education

July 2006 – September 2009 *Dr. rer. nat.*
 Junior Research Group Developmental Genetics, Georg-August-University, Göttingen, Germany
 Supervised by Prof. Gregor Bucher
 Thesis title: „*Function and Evolution of highly conserved head genes in the red flour beetle Tribolium castaneum*”
 Date of Promotion: 17th September 2009
 Grade: **summa cum laude**

October 2001 – June 2006 *Diploma*
 Georg-August-University Göttingen, Germany
 Main subjects: Developmental Biology, Human Genetics, Zoology
 Thesis title: “*The Tribolium castaneum gene Tc-optix/six3 and the evolution of the labrum*”
 Date of Diploma: 20th June 2006
 Grades by subject: Entwicklungsbiologie (sehr gut), Zoologie (sehr gut), Humangenetik (gut)
 Final Grade: **sehr gut**

Awards & Prizes

2019 Walther-Arndt-Forschungspreis of the German Zoological Society (DZG) (awarded at the DZG Meeting in Jena, September 13, 2019)

University and Community Organization | Memberships

since 2022 Employee representative at the board of the Johann-Friedrich-Blumenbach Institute for Zoology und Anthropology

since 2021 Member of the Society for Molecular Biology and Evolution (SMBE)

2016 – 2020 Employee representative at the board of the Johann-Friedrich-Blumenbach Institute for Zoology und Anthropology

2016 – 2020 Scientific Cluster Representative (“Science & Technology”) of the University Göttingen within the U4 network

since 2019 Deputy Spokesperson of the “International Max Planck Research School for Genome Science” (IMPRS-GS), Göttingen, Germany

since 2019 Recommender for Peer Community in Genomics (PCI Genomics)

since 2018 Council Member European Society for Evolutionary Developmental Biology (EED)

since 2018 Speaker of “Developmental Biology” Section of the German Zoological Society (DZG)

since 2018 Member and deputy representative of academic employees of the Center for Integrated Breeding Research (CiBreed), Göttingen, Germany

since 2017 Head of “Transcriptomics” work group of the European *Drosophila* Population Genomics Consortium (DrosEU)

since 2017 Member of the examination committee of the MSc/PhD program Developmental, Neural, and Behavioral Biology, University Göttingen, Germany

since 2017	Member of the program committee of the “International Max Planck Research School for Genome Science” (IMPRS-GS), Göttingen, Germany
since 2017	Recommender for Peer Community in Evolutionary Biology (PCI Evol Bio)
2016	Member of the Commission “Mitarbeiterkonzept der Fakultät für Biologie und Psychologie“ at the University Göttingen
since 2014	Member of the European <i>Drosophila</i> Population Genomics Consortium (DrosEU)
since 2014	Member of Verband Biologie, Biowissenschaften & Biomedizin in Deutschland (VBIO)
since 2013	Member of Junior European <i>Drosophila</i> Investigators (JEDI)
since 2012	Member of the German Zoological Society (DZG)
since 2012	Member of Göttingen Graduate School for Neurosciences and Molecular Biosciences (GGNB)
since 2012	Member of Göttingen Center for Molecular Biosciences (GZMB)
since 2012	Coordinator of GOEvol Consortium; trigger collaboration in the field Evolutionary Biology in Göttingen
since 2006	Member of the European Society for Evolutionary Developmental Biology (EED)

Reviewer

Journals

eLife, Development, Molecular Biology and Evolution, Bioinformatics, Genome Biology and Evolution, Frontiers in Ecology and Evolution, Journal of Evolutionary Biology, Frontiers in Zoology, Scientific Reports, Insect Molecular Biology, Development Genes and Evolution, Evolution & Development, Acta Zoologica, PloS One, Gene, International Journal of Developmental Neuroscience, PeerJ, Data in Brief

Funding sources

Deutsche Forschungsgemeinschaft (DFG), Research Fund - Flanders (FWO), The Leverhulme Trust, Agence Nationale de la Recherche (ANR), Estonian Research Council

Editor

Associate Editor for Frontiers in Ecology and Evolution

Editor of Research Topic: “Evolution of postembryonic development” in Frontiers in Ecology and Evolution

Editor for Development, Genes and Evolution

Guest Editor for “Size and Shape” Special Issue in Development, Genes and Evolution

Guest Editor for “Molecular Evolution and Functional Bioinformatics of Arthropods” Special Issue in Genes

Other scientific activities

2022

- Co-Organizer of the virtual DZG Graduate Meeting “Mind the gap: From Genotype to Phenotype and the role of Modelling, Genomic Prediction, and Development” March 2022 (co-organizer: Natascha Zhang, Munich)

2021

- Co-Organizer of Section Symposium of the FG Entwicklungsbiologie as part of the 113th Annual Meeting of the German Zoological Society, August/September 2021 (co-organizer: Natascha Zhang, Munich)

- 2020
- Co-Organizer of Virtual Meeting of the Developmental Biology Section of the German Zoological Society, September 2020 (co-organizer: Natascha Zhang, Munich)
- 2019
- Teacher at SPIRIT Summer School “Molecular Zoology”, September 2019, Göttingen
 - Co-Organizer of DZG Satellite Symposium “Haeckel’s legacy” as part of the 112th Annual Meeting of the German Zoological Society, September 11, 2019 (co-organizers: Natascha Zhang, Munich; Benjamin Naumann, Jena)
 - Organization of DZG Graduate Meeting “Evo-Devo in Germany: Status-Quo and future directions”, March 4-6, 2019 (co-organizer: Natascha Zhang, Munich)
- 2018
- Co-Organizer of GOEvol VI Meeting, “#Sensation @GOEEvolution 2018”, September 27-28, Göttingen (as part of GOEvol Consortium)
 - Co-Organizer of Workshop “CRISPR/Cas-Applications in Developmental Biology” at 111th Annual Meeting of the German Zoological Society, September 11, 2018 (co-organizers: Susanne Önel, Gregor Bucher)
 - Organization of the Symposium “Going beyond embryos – evolution of postembryonic development” as part of the 7th meeting of the European Society for Evolutionary Developmental Biology (EED), July 2018 (co-organizer: Micael Reis, Uni Göttingen)
- 2017
- Teacher at SPIRIT Summer School “Molecular Zoology”, August 2017, Göttingen
 - Member of poster prize committee (judge) at annual Meeting of the German Society of Developmental Biology (GFE) in Kiel, March 2017
 - Organization of the 3rd International SpiderWeb Meeting in March 2017 (with Nikola-Michael Prpic-Schäper) (responsible for program and fundraising)
 - Organization of the Symposium “The evolutionary diversity of nervous system development - from worms to humans” as part of the 12th Göttingen Meeting of the German Neuroscience Society, March 2017 (with Max Farnworth, University Göttingen)
- 2016
- Organizer of the GOEvol V Meeting, Göttingen, October 2016; “Networks in Biology” (as part of GOEvol Consortium)
 - Organization of the Symposium “Micro-Evo-Devo – Integrating evolution, development and population genetics” as part of the sixth meeting of the European Society for Evolutionary Developmental Biology (EED), July 2016 (co-organizer: Sebastian Kittelmann, Oxford Brookes University, UK)
- 2015
- Organization of the GOEvol IV Meeting, Göttingen, February 2015 (as part of GOEvol Consortium)
- 2014
- Member of poster prize committee (judge) at biannual Meeting of the European Society for Evolutionary Developmental Biology (EED) in Vienna, Austria, July 2014
 - Main organizer of Symposium “Size and Shape – Integration of morphometrics, mathematical modelling, developmental and evolutionary biology”, April 2014, Göttingen
- 2013
- Organization of the GOEvol III Meeting, Göttingen (responsible for scientific program and fundraising) (as part of GOEvol Consortium)

2012

- Organization of Next Generation Sequencing Workshop as part of GOEvol Meeting, Göttingen
- Organization of the GOEvol II Meeting, Göttingen (as part of GOEvol Consortium)
- Organization of the GZMB Summer Symposium, Göttingen (with two other Junior Group Leaders)

Key qualifications

2018

- Workshop “Creating the conditions for research success - Approaches to research and publication strategy for research group leaders” by Iain Patten (Göttingen)

since 2017

- Coordination of Junior Group Leader Peer Group with focus on Leadership skills

since 2016

- Member of Junior Group Leader Peer Group with focus on Leadership skills

2015

- Art of Leadership (Göttingen)
- Convincing self-presentation in academic talks (Göttingen)
- Strengths-Based Leadership (Göttingen)

2014

- Workshop Peer Coaching (Göttingen)
- Career Essentials: My Project Management Skills (Göttingen)
- Career Essentials: Leading without Leadership Position (Göttingen)
- Medienkompetenz – Schreiben und verstanden werden (Hannover, NAWIK; VolkswagenStiftung)
- Grant Writing Workshop (Göttingen)
- Webdesign Workshop (Göttingen)

Oral Presentations (only invited)

“Functional genomics for non-model organisms – opportunities and challenges”. Coordination meeting for the DFG Priority Programme “Genomic Basis of Evolutionary Innovations (GEvol)” (SPP 2349). July, 15, 2021

“Morphology meets Genomics - Evolution of visual system development in Drosophila”. Advanced Master Course “Evolutionary Biology”, University of Konstanz, May 2021

“Multiple loci linked to inversions are associated with eye size variation in species of the Drosophila virilis phylad”. 13th Annual Arthropod Genomics Symposium (Virtual Conference), July 21-23, 2020

“Evolution of visual system development – morphology meets genomics”. Seminar Series, Christian-Albrechts-University Kiel, May 2019

“Micro-Evo-Devo: Morphology meets Genomics”. 8th DrosEU Workshop, Barcelona, Spain, April 2019

“Evolution of visual system development – morphology meets genomics”. Seminar Series, Hamburg University, May 2018

“Evolution of visual system development in Drosophila – morphology meets genomics”. Seminar Series, CABD, Sevilla, Spain, March 2018

“Evolution of visual system development in Drosophila – morphology meets genomics”. Seminar Series, Queen Mary University London, UK, December 2017

“Systems-Evo-Devo: Evolution of developmental gene regulatory networks”. Seminar Series, Ludwig-Maximilians-Universität München, Fakultät für Biologie, Biozentrum, October 2016

“Comparative transcriptomics of head development in closely related Drosophila species”. Seminar Series, Institute of Functional Genomics of Lyon (IGFL), Lyon, France, February 2016

“Evo-devo in the omics era: Comparative transcriptomics of head development in closely related Drosophila species”. Seminar Series, Geocenter, University Uppsala, Sweden, November 2015

“Evolution of the head developmental gene regulatory network in three closely related Drosophila species”. Biology Seminar Series, University Rostock, Germany, January 2015

“Establishment of genomics and transcriptomics resources and their use in understanding visual system development in Parasteatoda tepidariorum”. 2nd International SpiderWeb Meeting, Jena, Germany, September 2014

“Genomics approaches for emerging model organisms – an overview”. iBeetle workshop: How to establish functional genetics in Zoology, Göttingen, Germany, September 2014

“Evolution of the head developmental gene regulatory network in three closely related Drosophila species”. 2nd Eco-Evo-Devo Postgraduate Summer School, Oxford Brookes University, Oxford, UK, August 2014

Publications

Summary

	all	since 2017
29 research articles in peer-reviewed journals		
5 reviews in peer-reviewed journals		
3 book chapters		
Citations	2,892	1,489
h-index	24	19
i10-index	32	31

based on Google Scholar (June 16, 2022)

In revision, submitted, in preparation

Wiegleb G, Reinhardt S, Dahl A, **Posnien N** (in revision at *Frontiers in Zoology*) "Tissue dissociation for single-cell RNA-sequencing for low amounts of input material"
preprint: doi: 10.21203/rs.3.rs-1623239/v1

Torres-Oliva M*, Buchberger E*, Buffry AD*, Kittelmann M, Sumner-Rooney L, Gaspar PMC, Bullinger GC, Guerrero G, Casares F, Arif S#, **Posnien N**#, Nunes DDS#, McGregor AP#, Almudi I# (in prep) "Differences in *orthodenticle* expression promote ommatidial size variation between *Drosophila* species."
 *equal contribution
 #corresponding authors
preprint: doi: 10.1101/2021.03.17.435774

Lu T-H, Wiegleb G, Reim L, Ahrend J, Torres-Oliva M, Buchberger E, **Posnien N** (in prep) "Genes related to peripodial epithelium development contribute to natural variation in eye size and shape between *Drosophila melanogaster* and *D. mauritiana*"

Dang TKL*, Reis M*, **Posnien N** (in prep) „Integration of multi-omics data reveals cellular processes underlying eye size variation between *Drosophila americana* and *D. novamexicana*"
 *equal contribution

Torres-Oliva M*, Buchberger E*, Almudi I, Lu T-H, **Posnien N** (in prep) "Regulatory divergence in closely related *Drosophila* species depends on the architecture of developmental gene regulatory networks."
 *equal contribution

Research Articles and Reviews

Posnien N#, Beldade P, Casares F (2022) Editorial: Evolution of Postembryonic Development. *Front. Ecol. Evol.* 10:859670
 #corresponding author
 doi: 10.3389/fevo.2022.859670

Reis M*, Siomava N*, Wimmer EA, **Posnien N** (2021). Conserved and Divergent Aspects of Plasticity and Sexual Dimorphism in Wing Size and Shape in Three Diptera. *Front. Ecol. Evol.* 9:660546.
 doi: 10.3389/fevo.2021.660546
 *equal contribution

Buchberger E, Bilen A, Ayaz S, Salamanca D, Matas de las Heras C, Niksic A, Almudi I, Torres-Oliva M, Casares F, **Posnien N** (2021). Variation in pleiotropic hub gene expression is associated with interspecific differences in head shape and eye size in *Drosophila*. *Molecular Biology and Evolution*; msaa335.

doi: 10.1093/molbev/msaa335

Reis M, Wiegleb G, Claude J, Lata R, Horchler B, Ha N-T, Reimer C, Vieira CP, Vieira J, **Posnien N** (2020). Multiple loci linked to inversions are associated with eye size variation in species of the *Drosophila virilis* phylad. *Scientific Reports*.

doi: 10.1038/s41598-020-69719-z

Kapun M, Barrón MG, [... incl. **Posnien N**...], Flatt T, González J (2020). Genomic Analysis of European *Drosophila melanogaster* Populations Reveals Longitudinal Structure, Continent-Wide Selection, and Previously Unknown DNA Viruses. *Molecular Biology and Evolution*; msaa120.

doi: 10.1093/molbev/msaa120

Cordellier M, Schneider JM, Uhl G, **Posnien N** (2020). Sex differences in spiders: from phenotype to genomics. *Development Genes and Evolution*.

doi: 10.1007/s00427-020-00657-6.

Herndon N, Shelton J, [... incl. **Posnien N**...], Brown SJ, Bucher G (2020). Enhanced genome assembly and a new official gene set for *Tribolium castaneum*. *BMC Genomics* 21:47.

doi: 10.1186/s12864-019-6394-6.

Buchberger E, Reis M, Lu T-H, **Posnien N** (2019). Context dependent gene regulation and implications for evolutionary studies. *Genes* 10(7), 492

doi: 10.3390/genes10070492

Reis M, Vieira PC, Lata R, **Posnien N**, Vieira J (2018). Origin and consequences of chromosomal inversions in the *virilis* group of *Drosophila*. *Genome Biology and Evolution*; evy239,

doi: 10.1093/gbe/evy239

Torres-Oliva M, Schneider J, Wiegleb G, Kaufholz F, **Posnien N** (2018). Dynamic genome wide expression profiling of *Drosophila* head development reveals a novel role of Hunchback in retinal glia cell development and blood-brain barrier integrity. *PLoS Genet* 14(1):e1007180.

doi: 10.1371/journal.pgen.1007180

Pechmann M, Benton MA, Kenny NJ, **Posnien N**, Roth S (2017). A novel role for Ets4 in axis specification and cell migration in the spider *Parasteatoda tepidariorum*. *eLife* 2017;6:e27590.

doi: 10.7554/eLife.27590

Schwager EE, [...], **Posnien N***, Richards S*, McGregor AP* (2017). The house spider genome reveals a whole genome duplication during arachnid evolution. *BMC Biology* 201715:62.

doi: 10.1186/s12915-017-0399-x

*equal contribution/corresponding authors

Khatib AA, Siomava N, Iannini A, **Posnien N**, Casares F (2017). Specific expression and function of the Six3 *optix* in *Drosophila* serially homologous organs. *Biology Open* 2017

Siomava N, Wimmer EA, **Posnien N** (2016). Size relationships of different body parts in the three dipteran species *Drosophila melanogaster*, *Ceratitis capitata* and *Musca domestica*. *Dev Genes Evol*.

Torres-Oliva M, Almudí I, McGregor AP, **Posnien N** (2016). A robust (re-)annotation approach to generate unbiased mapping references for RNA-seq-based analyses of differential expression across closely related species. *BMC Genomics*.

Prpic N-M, **Posnien N** (2016). Size and shape—integration of morphometrics, mathematical modelling, developmental and evolutionary biology. *Dev Genes Evol*1–4.

Schomburg C, Turetzek N, Schacht MI, Schneider J, Kirfel P, Prpic N-M+ and **Posnien N+** (2015). Molecular characterization and embryonic origin of the eyes in the common house spider *Parasteatoda tepidariorum*. *EvoDevo* 2015, 6:15.

+corresponding authors

Hilbrant M, Almudi I, Leite DJ, Kuncheria L, **Posnien N**, Nunes MDS, McGregor AP (2014). Sexual dimorphism and natural variation within and among species in the *Drosophila* retinal mosaic. *BMC Evolutionary Biology*14: 240.

Posnien N*, Zeng V*, Schwager EE, Pechmann M, Hilbrant M, Keefe JD, Damen, WGM, Prpic, NM, McGregor AP, Extavour CG+ (2014). A Comprehensive Reference Transcriptome Resource for the Common House Spider *Parasteatoda tepidariorum*. *PLoS ONE*9: e104885.

*equal contribution

+corresponding authors

Hogvall M, Schönauer A, Budd GE, McGregor AP, **Posnien N**, Janssen, R (2014). Analysis of the Wnt gene repertoire in an onychophoran provides new insights into the evolution of segmentation. *EvoDevo* 5: 14.

Janssen R, **Posnien N** (2014). Identification and embryonic expression of Wnt2, Wnt4, Wnt5 and Wnt9 in the millipede *Glomeris marginata* (Myriapoda: Diplopoda). *Gene Expression Patterns*14: 55–61.

Arif S, Hilbrant M, Hopfen C, Almudi I, Nunes MDS, **Posnien N**, Kuncheria L, Tanaka K, Mitteröcker P, Schlötterer C, McGregor AP (2013). Genetic and Developmental Analysis of Differences in Eye and Face Morphology Between *Drosophila simulans* and *Drosophila mauritiana*. *Evolution & Development*15, 4 (2013): 257–267.

Kittlmann S, Ulrich J, **Posnien N**, Bucher G (2013). Changes in anterior head patterning underlie the evolution of long germ embryogenesis. *Dev Biol*374, 1: 174–184.

Posnien N*, Hopfen C*, Hilbrant M, Ramos-Womack M, Murat S, Schönauer A, Herbert SL, Nunes MDS, Arif S, Breuker CJ, Schlötterer C, Mitteroecker P and McGregor AP (2012). Evolution of Eye Morphology and Rhodopsin Expression in the *Drosophila melanogaster* Species Subgroup. *PLoS ONE* 7(5): e37346

*equal contribution

Fu J*, **Posnien N***, Bolognesi R, Fischer TD, Rayl P, Oberhofer G, Kitzmann P, Brown SJ, Bucher G (2012). Asymmetrically expressed *axin* required for anterior development in *Tribolium*. *PNAS* 2012 May; 109(20):7782–7786.

*equal contribution

Posnien N*, Koniszewski N*, Hein H, Bucher G (2011). Candidate Gene Screen in the red flour beetle *Tribolium* Reveals *six3* as Ancient Regulator of Anterior Median Head and Central Complex Development. *PloS Genet* 7(12)

*equal contribution

Posnien N, Koniszewski N, Bucher G (2011). Insect *Tc-six4* marks a unit with similarity to vertebrate placodes. *Dev Biol* 350: 208–216

Steinmetz PRH, Urbach R, **Posnien N**, Eriksson J, Kostyuchenko RP, Brena C, Guy K, Akam M, Bucher G, Arendt D (2010). *Six3* demarcates the anterior-most developing brain region in bilaterian animals. *EvoDevo* 2010, 1:14

Posnien N, Schinko J, Kittlmann S, Bucher G (2010). Genetics, development and composition of the insect head - A beetle's view. *Arthropod Struct Dev* 39: 399–410.

Posnien N, Bucher G (2010). Formation of the insect head involves lateral contribution of the intercalary segment, which depends on *Tc-labial*/function. *Dev Biol*338: 107-116.

Yang X, Weber M, Zarinkamar N, **Posnien N**, Friedrich F, Wigand B, Beutel R, Damen WGM, Bucher G, Klingler M, Friedrich M (2009). Probing the Drosophila retinal determination gene network in Tribolium (II): The Pax6 genes *eyeless* and *twin of eyeless*. *Dev Biol*333: 215-227.

Posnien N, Bashasab F, & Bucher G (2009). The insect upper lip (labrum) is a nonsegmental appendage-like structure. *Evol Dev*11(5):480-488

Schinko JB, Kreuzer N, Offen N, **Posnien N**, Wimmer EA, Bucher G (2008). Divergent functions of *orthodenticle*, *empty spiracles* and *buttonhead* in early head patterning of the beetle *Tribolium castaneum* (Coleoptera). *Dev Biol*317: 600-613.

Tribolium Genome Sequencing Consortium (including **Posnien N**) (2008). The genome of the model beetle and pest *Tribolium castaneum*. *Nature*452: 949-955.

Book chapters

Posnien N (2018) "Phenotyping in evo-devo" in Modelling and Quantitative Approaches to Evo-Devo (section editor: Philipp Mitteröcker) as part of Evolutionary Developmental Biology - A Reference Guide (Editors: Laura Nuño de la Rosa and Gerd B. Müller); pp. 953-964. Cham: Springer International Publishing.
doi: 10.1007/978-3-319-32979-6_121

Posnien N, Schinko J, Grossmann D, Shippy TD, Konopova B, Bucher G (2009) RNAi in the Red Flour Beetle (*Tribolium*). *CSH Protoc*2009: pdb prot5256.

Schinko J, **Posnien N**, Kittelmann S, Koniszewski N, Bucher G (2009) Single and double whole-mount in situ hybridization in red flour beetle (*Tribolium*) embryos. *CSH Protoc*2009: pdb prot5258.

Funding Statement

Submitted

- June 2022 DFG Sequencing Grant
 “Identification of loci underlying local adaptation in European *Drosophila* populations”
 Co-applicants: Claudia Fricke (Halle), Sonja Grath (LMU München)
- March 2022 Participating Researcher with project proposal as part of DFG Research Training Network “Functional genetics in emerging animal model organisms reveals the diversity of gene function in development and pest control (GönomiX)” (member of the steering committee)

Ongoing

- from September 2022 DFG Grant as part of Priority Programme “Genomic Basis of Evolutionary Innovations (GEvol)” (SPP 2349) (Collaborative project with five PIs, total funding volume: **553,530 EUR** incl. 2 PhD positions; 211,900 EUR assigned to me)
 “Gene and genome duplication and phenotypic novelties –Insights from spiders and insects”
 Grant Nr.: PO 1648/6-1
- since July 2020 Extension of DFG Emmy Noether Fellowship (1 year; **217.050 EUR**, including consumables, my own salary, 1 Postdoc position, student assistants)
 “Evolution of gene expression and gene regulation during head development in *Drosophila americana* and *D. novamexicana*”
 Grant Nr.: PO 1648/3-2
- since May 2019 DFG Sequencing Grant (Research Grant; 3 years; **137.127 EUR**)
 “Gene expression divergence during *Drosophila* head development on single cell resolution”
 Grant Nr.: PO 1648/4-1
- since November 2015 DFG Emmy Noether Fellowship (3 years + 1 +1; **1.028.770 EUR** + 342.050 EUR, including consumables, my own salary, 2 PhD positions (6 years), 1 Postdoc position (4 years), student assistants)
 “Evolution of the gene regulatory network underlying head development in closely related *Drosophila* species”
 Grant Nr.: PO 1648/3-1

Completed

- December 2018 PhD position funded by Niedersächsisches Ministerium für Wissenschaft und Kultur as part of the International Max Planck Research School for Genome Science (IMPRS-GS)
- October 2016 PhD position funded by RTG 1644 “Scaling Problems in Statistics” (joint PhD position with Henner Simianer, Dpt. of Animal Breeding, Göttingen)
- April 2016 GGNB-Junior Group Stipend (**12 months, 1.365 EUR/month** fellowship for one PhD student, 103 EUR/month consumables)

- “Identification of the molecular basis for a sexual dimorphism in head shape and mandible size in the broad-horned flour beetle, *Gnathocerus cornutus*”
- July 2014 Georg-August-University Göttingen, MWK “Strategische Maßnahmen der Georg-August-Universität Göttingen” – Anschubfinanzierung für den wissenschaftlichen Nachwuchs (9 months, **9.983,24 EUR**, including consumables and student assistant support)
“Evolution and development of the dorsal head in three closely related *Drosophila* species”
- Feb 2014 Volkswagen Foundation - Support for Europe (18 months, **50.000 EUR**, including consumables and Postdoc fellowship salary for Dr. Micael Reis of IBMC Porto/Portugal, who will work on one of my projects)
“Evolution of eye and head size and shape between *Drosophila novamexicana* and *Drosophila americana*”
Grant Nr.: 85983-1
- March 2012 DFG (36 months, **305.950 EUR**, including my own salary)
I could not accept this grant due to potential double funding
“Identification of the changes in the gene regulatory network underlying head evolution in five closely related *Drosophila* species”
Grant Nr.: PO 1648/1-1
- March 2012 Volkswagen Foundation (36 months, **307.500 EUR**, including consumables and my own salary)
“Identification and evolution of the gene regulatory network underlying head development in five closely related *Drosophila* species”
Grant Nr.: 85 983