

# Gerd B MÃ¼ller

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5318/publications.pdf>

Version: 2024-02-01

48  
papers

4,188  
citations

218592

26  
h-index

233338

45  
g-index

51  
all docs

51  
docs citations

51  
times ranked

3145  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | The extended evolutionary synthesis: its structure, assumptions and predictions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151019.  | 1.2  | 755       |
| 2  | Does evolutionary theory need a rethink?. <i>Nature</i> , 2014, 514, 161-164.   | 13.7 | 727       |
| 3  | EvoDevo: extending the evolutionary synthesis. <i>Nature Reviews Genetics</i> , 2007, 8, 943-949.   | 7.7  | 481       |
| 4  | Epigenetic mechanisms of character origination. <i>The Journal of Experimental Zoology</i> , 2000, 288, 304-317.  | 1.4  | 241       |
| 5  | The innovation triad: an EvoDevo agenda. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2005, 304B, 487-503.  | 0.6  | 151       |
| 6  | Before programs: The physical origination of multicellular forms. <i>International Journal of Developmental Biology</i> , 2006, 50, 289-299.  | 0.3  | 149       |
| 7  | High-resolution episcopic microscopy: a rapid technique for high detailed 3D analysis of gene activity in the context of tissue architecture and morphology. <i>Anatomy and Embryology</i> , 2006, 211, 213-221.                  | 1.5  | 147       |
| 8  | Ontogeny of the limb skeleton in <i>Alligator mississippiensis</i> : Developmental invariance and change in the evolution of archosaur limbs. <i>Journal of Morphology</i> , 1990, 203, 151-164.                                  | 0.6  | 116       |
| 9  | Evolution evolves: physiology returns to centre stage. <i>Journal of Physiology</i> , 2014, 592, 2237-2244.   | 1.3  | 102       |
| 10 | Why an extended evolutionary synthesis is necessary. <i>Interface Focus</i> , 2017, 7, 20170015.  | 1.5  | 102       |
| 11 | A comparative study of stereolithographically modelled skulls of <i>Petalona</i> and Broken Hill: implications for future studies of middle Pleistocene hominid evolution. <i>Journal of Human Evolution</i> , 1997, 33, 691-703. | 1.3  | 96        |
| 12 | External marker-based automatic congruencing: A new method of 3D reconstruction from serial sections. <i>The Anatomical Record</i> , 1997, 248, 583-602.  | 2.3  | 89        |
| 13 | Embryonic motility: environmental influences and evolutionary innovation. <i>Evolution &amp; Development</i> , 2003, 5, 56-60.  | 1.1  | 83        |
| 14 | Computer-based three-dimensional visualization of developmental gene expression. <i>Nature Genetics</i> , 2000, 25, 147-152.  | 9.4  | 81        |
| 15 | Homology, Hox Genes, and Developmental Integration. <i>American Zoologist</i> , 1996, 36, 4-13.   | 0.7  | 79        |
| 16 | A new episcopic method for rapid 3-D reconstruction: applications in anatomy and embryology. <i>Anatomy and Embryology</i> , 1998, 197, 341-348.  | 1.5  | 69        |
| 17 | Is Non-genetic Inheritance Just a Proximate Mechanism? A Corroboration of the Extended Evolutionary Synthesis. <i>Biological Theory</i> , 2013, 7, 189-195.   | 0.8  | 63        |
| 18 | MicroCT for molecular imaging: Quantitative visualization of complete three-dimensional distributions of gene products in embryonic limbs. <i>Developmental Dynamics</i> , 2011, 240, 2301-2308.                                  | 0.8  | 59        |

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|----|--|-----|-----------|
| 19 | Evolutionary innovations overcome ancestral constraints: a re-examination of character evolution in male sepsid flies (Diptera: Sepsidae). <i>Evolution &amp; Development</i> , 2002, 4, 1-6.                | 1.1 | 55        |
| 20 | The Morphometrics of "Masculinity" in Human Faces. <i>PLoS ONE</i> , 2015, 10, e0118374.   | 1.1 | 55        |
| 21 | Ancestral patterns in bird limb development: A new look at Hampe's experiment. <i>Journal of Evolutionary Biology</i> , 1989, 2, 31-47.  | 0.8 | 46        |
| 22 | Past climate change on Sky Islands drives novelty in a core developmental gene network and its phenotype. <i>BMC Evolutionary Biology</i> , 2015, 15, 183.   | 3.2 | 36        |
| 23 | The parasellar region of human infants: cavernous sinus topography and surgical approaches. <i>Journal of Neurosurgery</i> , 1999, 90, 484-490.  | 0.9 | 33        |
| 24 | Phenotypic Novelty in EvoDevo: The Distinction Between Continuous and Discontinuous Variation and Its Importance in Evolutionary Theory. <i>Evolutionary Biology</i> , 2016, 43, 314-335.                    | 0.5 | 31        |
| 25 | Natural and experimental reduction of the avian fibula: Developmental thresholds and evolutionary constraint. <i>Journal of Morphology</i> , 1992, 214, 269-285.   | 0.6 | 30        |
| 26 | Experimental Strategies in Evolutionary Embryology. <i>American Zoologist</i> , 1991, 31, 605-615.   | 0.7 | 29        |
| 27 | Polydactyly in Development, Inheritance, and Evolution. <i>Quarterly Review of Biology</i> , 2017, 92, 1-38.   | 0.0 | 29        |
| 28 | Generation, Integration, Autonomy: Three Steps in the Evolution of Homology. <i>Novartis Foundation Symposium</i> , 1999, 222, 65-79.  | 1.2 | 26        |
| 29 | Anatomical compartments of the parasellar region: adipose tissue bodies represent intracranial continuations of extracranial spaces. <i>Journal of Anatomy</i> , 1997, 191, 269-275.                         | 0.9 | 25        |
| 30 | Limb development in a primitive crustacean, <i>Triops longicaudatus</i> : subdivision of the early limb bud gives rise to multibranching limbs. <i>Development Genes and Evolution</i> , 1996, 206, 161-168. | 0.4 | 24        |
| 31 | 3D modelling of gene expression patterns. <i>Trends in Biotechnology</i> , 2001, 19, 145-148.  | 4.9 | 21        |
| 32 | Biased Polyphenism in Polydactylous Cats Carrying a Single Point Mutation: The Hemingway Model for Digit Novelty. <i>Evolutionary Biology</i> , 2014, 41, 262-275.   | 0.5 | 21        |
| 33 | Studying Developmental Variation with Geometric Morphometric Image Analysis (GMIA). <i>PLoS ONE</i> , 2014, 9, e115076.  | 1.1 | 19        |
| 34 | The cephalopod arm crown: appendage formation and differentiation in the Hawaiian bobtail squid <i>Euprymna scolopes</i> . <i>Frontiers in Zoology</i> , 2016, 13, 44.                                       | 0.9 | 14        |
| 35 | Heterochrony and Early Left-Right Asymmetry in the Development of the Cardiorespiratory System of Snakes. <i>PLoS ONE</i> , 2015, 10, e116416.   | 1.1 | 14        |
| 36 | Three-dimensional description and mathematical characterization of the parasellar internal carotid artery in human infants. <i>Journal of Anatomy</i> , 2008, 212, 636-644.                                  | 0.9 | 13        |

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|----|--|-----|-----------|
| 37 | A threshold model for polydactyly. <i>Progress in Biophysics and Molecular Biology</i> , 2018, 137, 1-11.  | 1.4 | 13        |
| 38 | Lindsay Craig "The So-Called Extended Synthesis and Population Genetics ( <i>Biological Theory</i> 5: 117-123.) Tj ETQo0 0 0 rgBT /Overlo                | 0.8 | 11        |
| 39 | The lateral mesodermal divide: an epigenetic model of the origin of paired fins. <i>Evolution &amp; Development</i> , 2014, 16, 38-48.                   | 1.1 | 10        |
| 40 | Developmental finite element analysis of cichlid pharyngeal jaws: Quantifying the generation of a key innovation. <i>PLoS ONE</i> , 2018, 13, e0189985.  | 1.1 | 10        |
| 41 | Pere Alberch: Originator of EvoDevo. <i>Biological Theory</i> , 2008, 3, 351-356.  | 0.8 | 6         |
| 42 | EvoDevo Shapes the Extended Synthesis. <i>Biological Theory</i> , 2014, 9, 119-121.  | 0.8 | 5         |
| 43 | External marker-based automatic congruencing: A new method of 3D reconstruction from serial sections. <i>The Anatomical Record</i> , 1997, 248, 583-602. | 2.3 | 5         |
| 44 | Beyond Spandrels: Stephen J. Gould, EvoDevo, and the Extended Synthesis. , 2013, , 85-99.  |     | 5         |
| 45 | Evo-Devo's Contributions to the Extended Evolutionary Synthesis. , 2021, , 1127-1138.  |     | 4         |
| 46 | BIO. <i>Evolution &amp; Development</i> , 2011, 13, 243-246.   | 1.1 | 2         |
| 47 | Rupert Riedl's Path of Cognition. <i>Biological Theory</i> , 2006, 1, 188-190.   | 0.8 | 1         |
| 48 | Evo-Devo's Contributions to the Extended Evolutionary Synthesis. , 2020, , 1-12.   |     | 1         |