***curriculum vitae*, William F. Martin**

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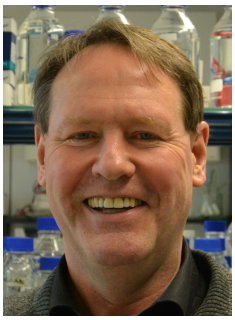

Date of birth	: 16.02.57 in Bethesda, Maryland, USA
Familial status	: Married, four children
Nationality	: German
University degree	: 1981–1985, Technische Universität Hannover, Germany: Biology
Diplom thesis	: 1985, Institut für Botanik, TU Hannover: Plant Molecular Biology
PhD thesis	: 1985–1988, Max-Planck-Institut für Züchtungsforschung, Cologne, with Heinz Saedler; degree conferred by the University of Cologne: Genetics
Postdoc	: 1988–1989, Max-Planck-Institut für Züchtungsforschung, Cologne
Postdoc	: 1989–1999, Institut für Genetik, Universität Braunschweig, with Rüdiger Cerff
Habilitation	: 1992, TU Braunschweig, Germany, *venia legendi* for the field of Botany
Full professor offers	: 1999 Universität Jena (C4) Genetics; 1999 Univ7ersität Bochum (C4) Cell Biology
Full professor	: 1999–2011 for "Ecological Plant Physiology" (C4), Universität Düsseldorf
	: 2011– for "Molecular Evolution" (C4), Universität Düsseldorf

Honours

2022	Honorary Member of the Croatian Society for Biochemistry and Molecular Biology
2020	Elected Fellow, Leibniz Sozietät der Wissenschaften zu Berlin
2019	Elected Corresponding Foreign Member, Accademia delle Scienza di Bologna
2018	Visiting Scientist, Università Degli Studi di Padova, Italy
2018	Elected President, Society for Molecular Biology and Evolution
2013–	Visiting Professor, Instituto de Tecnologia Química e Biológica, Oeiras, Portugal
2012	Elected Member of EMBO (European Molecular Biology Organisation)
2008	Elected Member of the Nordrhein-Westfälische Akademie der Wissenschaften
2006	Elected Fellow of the American Academy for Microbiology
2006-2009	Julius von Haast Fellow, New Zealand Ministry for Research, Science & Technology
2000-2007	Foreign Associate, CIAR Programme in Evolutionary Biology

Awards

2021	European Research Council Advanced Investigator Grant (3rd)
2019	ISI Highly Cited Researcher, Cross-Field
2018	Klüh Foundation Award for Science and Research
2017	Spiridion Brusina Medal, Croatian Society for Natural Sciences
2017	Distinguished Lectureship Award, Ministry of Science and Technology of Taiwan
2015	European Research Council Advanced Investigator Grant (2nd)
2011	The Mindlin Lecture Award, University of Washington, USA
2009	European Research Council Advanced Investigator Grant (1st)
1998	Miescher-Ishida Prize of the International Society of Endocytobiology
1997	Technology Transfer Prize, Industrie und Handelskammer Braunschweig
1990	Heinz-Maier-Leibnitz Prize of the Deutsche Forschungsgemeinschaft

1989 Max-Planck postdoctoral stipend

Positions of trust

2018– German representative, COST action CA 17129 Chemobrionics
2017– External Advisory Panel, Ganges Microbiome Initiative, India
2017– Scientific Advisory Board, Biodiversity Research Center, Academia Sinica, Taiwan
2016–2019 Member of the Gender and Diversity Commission of the University of Düsseldorf
2017 Scientific Advisory Board of CBRC, KAUST, KSA
2016–2019 Elected member of the Senate of the University of Düsseldorf
2016– European Science Foundation College of Expert Reviewers
2010 Science Advisory Committe, Helmholz Alliance Planetry Evoution and Life
2007–2012 Selection Committee for the Heinz-Maier-Leibnitz Prize of the DFG
2004–2007 Elected member of the Senate of the University of Düsseldorf

Editorial service

2021– Associate Editor, *Frontiers in Microbiology* (Evolutionary and Genomic Microbiology)
2021– Associate Editor, *Frontiers in Microbiology* (Biology of Archaea)
2009–2018 Editor-in-Chief, *Genome Biology and Evolution*
2004–2007 Editor-in-Chief, *Molecular Biology and Evolution*
2015–2018 Editorial Board Member, *Microbial Genomics*
2008–2011 Editorial Board Member, *Marine Genomics*
2015–2019 Editorial Board Member, *Scientific Reports*
2014–2016 Editorial Board Member, *Life*
2012– Scientific Advisory Committee, *Marine Genomics*
2007– Editorial Board Member, *Biology Direct*
2001– Faculty 1000 Member for Plant Genomes and Evolution
2012–2013 Editorial Board Member, *Central European Journal of Biology*
2005–2014 Editorial Board Member, *Environmental Microbiology*
2005–2012 Editorial Advisory Board, *BioEssays*
2003–2008 Editorial Board Member, *Plant Biology*
1999–2004 Editorial Board Member, *European Journal of Phycology*
1998–2008 Editorial Board Member, *Molecular Biology and Evolution*
1995–2008 Editorial Board Member, *Gene*

Other affiliations

Instituto de Tecnologia Química e Biológica
Universidade Nova de Lisboa
2780-157 Oeiras
Portugal

Current research funding	**Period**	**Sum (as PI)**
ERC Advanced Grant Ecology of Metabolic Origins	2021–2026	€ 2,490,000
Moore-Simons Initiative on the Origin of Eukaryotic Cells (with H. Imachi, M. Nobu, Y. Kamagata, R. Robinson)	2020–2023	€ 640,000
German-Israeli Project Cooperation (with I. Misrahi, Beer Sheva)	2020–2024	€ 420,000
Volkswagen Foundation, Forming catalysts: A basic principle of deep chemistry, life chemistry and life (with H. Tüysüz, J. Moran)	2019–2024	€ 487,000
Volkswagen Foundation, A unified model of recombination in life	2016–2021	€ 500,000
Deutsche Forschungsgemeinschaft (with H. Tüysüz, MPI Mülheim)	2018–2020	€ 164,000

Prior research funding

European Research Council Advanced Grant "eMicrobevol"	2015–2020
German Israeli Foundation grant (with E. Hazkani-Covo)	2016–2018
European Research Council Advanced Grant "Networkorigins"	2009–2014
German Research Foundation (DFG)	
Collaborative Research Centre CRC-Tr1 “Endosymbiosis“	
· Project A3: Comparative genome analysis	2010–2012
· Project A3: Comparative genome analysis	2007–2009
· Project A3: Comparative genome analysis	2004–2006
· Project A3: Comparative genome analysis	2001–2003
· Project C3: The mitochondrion of *Euglena*	2010–2012
· Project C3: The mitochondrion of *Euglena*	2007–2009
· Project C3: The mitochondrion of *Euglena*	2004–2006
· Project C3: The mitochondrion of *Euglena*	2001–2003
· Project A10: Plant genome analysis	2010–2012
· Project A10: Plant genome analysis	2007–2009
DFG Priority Programme grants:	
· Ma1426/13-3 SPP1127 Domestication and evolution of einkorn	2006–2007
· Ma1426/13-2 SPP1127 Domestication and evolution of einkorn	2004–2005
· Ma1426/13-1 SPP1127 Domestication and evolution of einkorn	2002–2003
· Ma1426/1-3 SPP285 Plant molecular evolution	1996–1997
· Ma1426/1-2 SPP285 Plant molecular evolution	1994–1995
· Ma1426/1-1 SPP285 Plant molecular evolution	1992–1993
DFG Individual grants:	
· Ma1426/19-1 Molecular mechanisms of *Trichomonas* infection	2013–2015
· Ma1426/9-1 Evolution of photosynthetic eukaryotes	1998–1999
· Ma1426/4-2 Plant tryptophan biosynthesis	1996–1997
· Ma1426/4-1 Plant tryptophan biosynthesis	1994–1995
· Ma1426/3-3 Evolution of plant sugar phosphate metabolism	1998–1999
· Ma1426/3-2 Evolution of plant sugar phosphate metabolism	1996–1997
· Ma1426/3-1 Evolution of plant sugar phosphate metabolism	1994–1995
BMBF:	
· Classification & Evolution in Biology, Linguistics & Science History	2008–2011

Funded industry cooperations

· Bayer Crop Science, Monheim (1996–2007)

· BASF Plant Science, Ludwigshafen (1999–2003)

· Sanford Scientific, USA (1997)

Memberships

American Academy for Microbiology, German Botanical Society, Society for Molecular Biology and Evolution, Society for the Study of Evolution, Deutscher Hochschulverband, Verein Deutscher Biologen, VdBiol Arbeitsgemeinschaft Evolutionsbiologie, Nordhreinwestfälische Akademie der Wissenschaften, European Molecular Biology Organization (EMBO), Hororary Member Croatian Society for Biochemistry and Molecular Biology

Recent special lectures

Sept 2022 Plenary Lecture, Annual Meeting Croatian Soc. Biochem. Mol. Biol., Brela, HR

Oct 2021 Morning Plenary, Wetsus Annual Meeting, Leuwaarden, NL
Jan 2019 Evening Lecture, 54th Winter Seminar, Klosters, CH
Nov 2018 Opening Lecture, 34th International Prize for Biology Symposium, A.H. Knoll, Nagoya, J
Aug 2018 Plenary Lecture, European Bioenergetics Conference, Budapest, H
July 2018 The Nei Lecture, SMBE Annual Meeting, Yokohama, J
July 2018 Opening Plenary, Israel Society for Microbiology, Be'er Sheva, ISR
May 2018 Università degli Studi di Milano Bicocca, 20th Anniversary lecture series, Milano, I
Nov. 2017 Public evening lecture, NRW Akademie der Wissenschaften, Düsseldorf, D
Nov. 2017 Spiridion Brusina Medal Lecture, Croatian Society for Natural Sciences, Zagreb, HR
May 2017 Linus Pauling Memorial Lecture Series, Portland, Oregon, USA
Jul. 2016 Opening Plenary, 19th European Bioenergetics Conference, Riva del Garda, I
Nov. 2015 Ponticifal Academy of Science, The Vatican
Oct. 2015 Inaugural Meeting of the Institute Biologie Paris Seine, F
Nov. 2012 Royal Society, Energy transduction and genome function: An evolutionary synthesis, UK
Nov. 2011 Annual Meeting of the Leopoldina, Halle
Feb. 2011 The Mindlin Lecture, University of Washington, USA
Oct. 2010 The Peter-Hemmerich-Vorlesung 2010, University of Konstanz, D
May 2010 Opening Lecture, Cusanuswerk Symposium Evolution, Nittendorf, D
Nov. 2009 Opening Lecture, 51st Phylogenetics Symposium, Braunschweig
Oct. 2009 Opening Lecture, ESF Meeting "Systems Chemistry II", Balatonfured, Hungary
Jun. 2009 Opening Plenary, SMBE Annual Meeting, Cedar Rapids, Iowa
Jan. 2009 The 2009 Howard Dalton Lecture, University of Warwick, UK
Jan. 2009 The 2009 G.E. Fogg Lecture, Queen Mary University of London, UK
Feb. 2009 Opening Lecture, BioEd Darwin 200 Symposium, Christchurch, NZ
Mar. 2006 Evening Plenary, VAAM German Microbiological Society Annual Meeting, Jena
Dec. 2004 International Prize for Biology Symposium, for Tom Cavalier-Smith, Tokyo, JPN
Oct. 2003 The Kenneth Sporne Lecture on Plant Evolution, University of Cambridge, UK

Total citations: 42500 (Google Scholar) 25300 (ISI)
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Public citation metrics: http://scholar.google.de/citations?hl=en&user=ms16utkAAAAJ
ISI Highly Cited (Cross-Field): https://publons.com/researcher/3165800/william-f-martin/

Books (authored)

1. William F. Martin, Aloysius G. M. Tielens, Marek Mentel (2020) *Mitochondria and Anaerobic Energy Metabolism in Eukaryotes*. De Gruyter, Berlin. ISBN 978-3-11-066677-9. 252 pages.

Original Publications (peer reviewed)

Kaur H, Werner E, Song Y, Yi J, Kazöne W, Martin WF, Tüysüz H, Moran J: Facile synthesis of alpha keto acids, amino acids and nucleobase precursors using H_2 and NH_3 in water with trace Pd catalyst.
submitted.

Beyazay T, Belthle K, Farès C, Vieira A, Preiner M, Moran J, Martin WF, Tüysüz H: Ambient temperature conversion of CO_2 and H_2 to pyruvate and citramalate over iron and nickel nanoparticles.
submitted.

2022

284. Belthle K, Beyazay T, Ochoa-Hernández C, Miyazaki R, Foppa L, Martin W, Tüysüz H: Effects of silica modification (Mg, Al, Ca, Ti, and Zr) on supported cobalt catalysts for H_2 dependent CO_2 reduction to metabolic intermediates.
J. Am. Chem. Soc. •••:•••–••• *in press* (2022).

283. Song B, Modjewski LD, Kapust N, Misrahi I, Martin WF: The origin and distribution of the main oxygen sensing mechanism across metazoans.
Frontiers in Physiology. •••:•••–••• *in press* (2022).

282. Fan L, Wu D, Goremykin V, Trost K, Knopp M, Zhang C, Martin WF, Zhu R: Reply to: Phylogenetic affiliation of mitochondria with alpha-II and rickettsiales is an artefact.
Nature Ecol. Evol. 1-4.

281. Bremer N, Knopp M, Martin WF, Tria FDK: Realistic gene transfer to gene duplication ratios identify different roots in the bacterial phylogeny using a tree reconciliation method.
Life. 12:995 (2022).

280. Subedi BP, Schofield JR, Carbone V, Wolf M, Martin WF, Ronimus RS, Sutherland-Smith AJ: Structural characterisation of methanogen pseudomurein cell wall peptide ligases homologous to bacterial MurE/F murein peptide ligases.
Microbiology. 168:001235 (2022).

279. Bremer N, Tria FDK, Skejo J, Garg SG, Martin WF: Ancestral state reconstructions trace mitochondria but not phagocytosis into the last eukaryotic common ancestor.
Genome Biology and Evolution. 14:evac079 (2022).

278. Hedlund BP, Zhang C, Wang F, Rinke C, Martin W: Ecology, metabolism and evolution of Archaea — Perspectives from Proceedings of the International Workshop on Geo-Omics of Archaea.
Frontiers Microbiol. 2021.827229 (2022).

277. Henriques Pereira DP, Leethaus J, Beyazay T, Vieira AdN, Kleinermanns K, Tüysüz H, Martin WF, Preiner M: Role of geochemical protoenzymes (geozymes) in primordial metabolism: Specific abiotic hydride transfer by metals to the biological redox cofactor NAD^+.
FEBS J. 289:3148–3162 (2022).

2021

276. Wimmer JLE, Xavier JC, Vieira AdN, Pereira DPH, Leidner J, Sousa FL, Kleinermanns K, Preiner M, Martin WF: Energy at origins: Favourable thermodynamics of biosynthetic reactions in the last universal common ancestor (LUCA).
Frontiers Microbiol. 12:793664 (2021).

275. Tria FDK, Martin WF: Gene duplications are at least 50 times less frequent than gene transfers in prokaryotic genomes.
Genome Biol. Evol. 13:evab224 (2021).

274. Wimmer JLE, Kleinermanns K, Martin WF: Pyrophosphate and irreversibility in evolution, or why PP_i is not an energy currency and why nature chose triphosphates.
Frontiers Microbiol. 12:759359 doi:10.3389/fmicb.2021.759359. (2021)

273. Subedi BP, Martin WF, Carbone V, Duin EC, Cronin B, Sauter J, Schofield JR, Sutherland-Smith AJ, Ronimus RS. Archaeal pseudomurein and bacterial murein cell wall biosynthesis share a common evolutionary ancestry.
FEMS Microbes. 2:xtab012 (2021).

272. Skejo J, Garg SG, Gould SB, Hendriksen M, Tria FDK, Bremer N, Franjević D, Blackstone NW, Martin WF: Evidence for a syncytial origin of eukaryotes from ancestral state reconstruction.
Genome Biol. Evol. 13:evab096 (2021).

271. Martin WF, Nagies FSP, Vieira AdN: To what inanimate matter are we most closely related and does the origin of life harbour meaning?
Philosophies. 6:33 (2021).

270. Tria FDK, Brueckner J, Skejo J, Xavier JC, Kapust N, Knopp M, Wimmer JE, Nagies FSP, Zimorski V, Gould SB, Garg SG, Martin WF: Gene duplications trace mitochondria to the onset of eukaryote complexity.
Genome Biol. Evol. 13:evab055 (2021).

269. Wimmer JLE, Vieira AdN, Xavier JC, Kleinermanns K, Martin WF, Preiner M: The autotrophic core: An ancient network of 404 reactions converts H_2, CO_2, and NH_3 into amino acids, bases, and cofactors.
Microorganisms 9:458 (2021).

268. Xavier JC, Gerhards RE, Wimmer JLE, Brueckner J, Tria FDK, Martin WF: The metabolic network of the last bacterial common ancestor.
Commun. Biol. 4:413 (2021)

267. Garg SG, Kapust N, Lin W, Knopp M, Tria FDK, Nelson-Sathi S, Gould SB, Fan L, Zhu R, Zhang C, Martin WF: Anomalous phylogenetic behavior of ribosomal proteins in metagenome assembled asgard archaea.
Genome Biol. Evol. 13:evaa238 (2021).

266. Kowallik KV, Martin WF: The origin of symbiogenesis: An annotated English translation of Mereschkowky's 1910 paper on the theory of two plasma lineages.
Biosystems 199:104281 (2021).

2020

265. Vieira AdN, Kleinermanns K, Martin WF, Preiner M: The ambivalent role of water at the origins of life.
FEBS Lett. 594:2717–2733 (2020).

264. Fan L, Wu D, Goremykin V, Xiao J, Xu Y, Garg S, Zhang C, Martin WF, Zhu R: Phylogenetic analyses with systematic taxon sampling show that mitochondria branch within Alphaproteobacteria.
Nature Ecol. Evol. 4:1213–1219 (2020).

263. Cunnane SC, Trushina E, Morland C, Prigione A, Casadesus G, Andrews ZB, Beal F, Bergersen LH, Brinton RD, de la Monte S, Eckert A, Harvey JZ, Jeggo R, Jhamandas JH, Kann O, Mannoury la Cour C, Martin WF, Mithieux G, Moreira PI, Murphy MP, Nave KA, Nuriel T, Oliet S, Saudou F, Mattson MP, Swerdlow RH, Millan MJ: Brain energy rescue: an emerging therapeutic concept for neurodegenerative disorders of ageing.
Nature Rev. Drug Discovery. 19:609–633 (2020).

262. Martin WF: Older than genes: The acetyl-CoA pathway and origins.
Frontiers Microbiol. 11:817 (2020).

261. Brueckner J, Martin WF: Bacterial genes outnumber archaeal genes in eukaryotic genomes.
Genome Biol. Evol. 12:282–292 (2020).

260. Xavier JC, Hordijk W, Kauffman S, Steel M, Martin WF: Autocatalytic chemical networks at the origin of metabolism.
Proc. Roy. Soc. Lond. B. 287:20192377 (2020).

259. Orsi WD, Schink B, Buckel W, Martin WF: Physiological limits to life in anoxic subseafloor sediment.
FEMS Microbiol. Rev. 44:219–231 (2020)

258. Preiner M, Igarashi K, Muchowska KB, Yu M, Varma SJ, Kleinermanns K, Nobu MK, Kamagata Y, Tüysüz H, Moran J, Martin WF: A hydrogen-dependent geochemical analogue of primordial carbon and energy metabolism.
Nature Ecol. Evol. 4:534–542 (2020)

257. Nagies FSP, Brueckner J, Tria FDK, Martin WF: A spectrum of verticality across genes.
PLoS Genetics. 16:e1009200 (2020)

2019

256. Preiner M, Xavier JC, Vieira AN, Kleinermanns K, Allen JF, Martin WF: Catalysts, autocatalysis and the origin of metabolism.
J. Roy. Soc. Interface Focus. 9:20190072 (2019).

255. Gould SB, Garg SG, Handrich M, Nelson-Sathi S, Gruenheit N, Tielens AGM, Martin WF: Adaptation to life on land at high oxygen via transition from ferredoxin- to NADH-dependent redox balance.
Proc. Roy. Soc. Lond. B. 286: 20191491 (2019)

254. Allen JF, Thake B, Martin WF: Nitrogenase inhibition limited oxygenation of Earth's Proterozoic atmosphere.
Trends Plant Sci. 24:1022–1031 (2019).

253. Wein T, Picazo DR, Blow F, Woehle C, Jami E, Reusch TBH, Martin WF, Dagan T: Currency, exchange, and inheritance in the evolution of symbiosis.
Trends Microbiol. 10:836–849 (2019).

252. Martin WF: Carbon–metal bonds, rare and primordial in metabolism.
Trends Biochem. Sci. 44:807–818 (2019).

251. Brunk CF, Martin WF: Archaeal histone contributions to the origin of eukaryotes.
Trends Microbiol. 27:703–714 (2019).

250. Zimorski V, Mentel M, Tielens AGM, Martin WF: Energy metabolism in anaerobic eukaryotes and Earth's late oxygenation.
Free Radicals Biol. Med. 140:279–294 (2019).

249. Xiao J, Fan L, Wu D, Xu Y, Lai D, Martin WF, Zhu R, Zhang C: Archaea, the tree of life, and cellular evolution in eukaryotes.
Sci. China Earth Sci. 62:489–506 (2019).

248. Degli Esposti M, Mentel M, Martin WF, Sousa FL: Oxygen reductases in alphaproteobacterial genomes: Physiological evolution from low to high oxygen environments.
Frontiers Microbiol. 10:499 (2019).

247. Sudianto E, Wu C-S, Leonhard L, Martin WF, Chaw S-M: Enlarged and high repetitive plastome of Lagarostrobos and plastid phylogenomics of Podocarpaceae.
Mol. Phylog. Evol. 133:24–32 (2019).

246. Martin WF: Metabolism as we might find it in space. *Astrobiologia, bollettino ufficiale della Società Italiana di Astrobiologia*. December issue, No. 4, 9–15 (2019).

2018

245. Preiner M, Xavier JC, Sousa FL, Zimorski V, Neubeck A, Lang SQ, Greenwell HC, Kleinermanns K, Tüysüz H, McCollom TM, Holm NG, Martin WF: Serpentinization: Connecting geochemistry, ancient metabolism and industrial hydrogenation.
Life 8:41 (2018).

244. Barth C, Weiss MC, Roettger M, Martin WF, Unden G: Origin and phylogenetic relationships of [4Fe-4S]-containing O_2-sensors of bacteria.
Environm. Mircobiol. 20:4567–4586 (2018).

243. Xavier JC, Preiner M, Martin WF: Something special about CO-dependent CO_2 fixation.
FEBS J. 285:4181-4195 (2018).

242. Bexkens ML, Zimorski V, Sarink MJ, Wienk H, Brouwers JF, De Jonckheere JF, Martin WF, Opperdoes FR, van Hellemond JJ, Tielens AGM: Lipids are the preferred growth substrate of the protist *Naegleria gruberi*, relative of a human brain-eating pathogen.
Cell Reports 25:537–543 (2018).

241. Gerlitz M, Knopp M Kapust N, Xavier JC, Martin WF: Elusive data underlying debate at the prokaryote eukaryote divide.
Biol. Direct 13:21 (2018).

240. Garg SG, Martin WF: Asking endosymbionts to do an enzyme's job.
Proc. Natl. Acad. Sci. USA. 10.1073/pnas.1804397115 (2018).

239. Kapust N, Nelson-Sathi S, Schönfeld B, Hazkani-Covo E, Bryant D, Lockhart PJ, Roettger M, Xavier JC, Martin WF: Failure to recover major events of gene flux in real biological data due to method misapplication.
Genome Biol. Evol. 10:1198–1209 (2018).

238. Weiss MC, Preiner M, Xavier JC, Zimorski V, Martin WF: The last universal common ancestor between ancient Earth chemistry and the onset of genetics.
PLoS Genetics 14: e1007518 (2018).

237. Martin WF: Eukaryote lateral gene transfer is Lamarckian.
Nature Ecol. Evol. doi:10.1038/s41559-018-0521-7 (2018).

236. Martin WF, Bryant DA, Beatty JT: A physiological perspective on the origin and evolution of photosynthesis.
FEMS Microbiol. Rev. 42:205–231 (2018).

235. Sousa FL, Preiner M, Martin WF: Native metals, electron bifurcation and CO_2 reduction in early biochemical evolution.
Curr. Opin. Microbiol. 43:77–83 (2018).

234. Portuguez S, Martin WF, Hazkani-Covo E: Mosaic mitochondrial-plastid insertions into the nuclear genome show evidence of both non-homologous end joining and homologous recombination.
BMC Evol. Biol. 18:162 (2018).

2017

233. Martin WF: Too much eukaryote LGT.
BioEssays 39:1700115 (2017).

232. Rauch C, Jahns P, Tielens AGM, Gould SB, Martin WF: On being the right size as an animal with plastids.
Frontiers Plant Sci. 8:1402 (2017).

231. Martin WF, Tielens AGM, Mentel M, Garg SG, Gould SB: The physiology of phagocytosis in the context of mitochondrial origin.
Microbiol. Mol. Biol. Rev. 81:e00008-17 (2017).

230. Hazkani-Covo E, Martin WF: Quantifying the number of independent organelle DNA insertions in genome evolution and human health
Genome Biol. Evol. 9:1190–1203 (2017).

229. Martin WF: Going back in genes
The Biologist. 64:20–23 (2017).

228. Martin WF, Zimorski V, Weiss MC: Wo lebten die ersten Zellen — und wovon?
Biologie in unserer Zeit. 47:186–192 (2017).

227. Martin WF, Cerff R: Physiology, phylogeny, early evolution, and GAPDH.
Protoplasma. 254:1823–1834 (2017).

226. Martin WF: Physiology, anaerobes, and the origin of mitosing cells 50 years on.
J. Theor. Biol. 434:2–10 doi: 10.1016/j.jtbi.2017.01.004 (2017).

225. Martin WF, Roettger M, Ku C, Garg SG, Nelson-Sathi S, Landan G: Late mitochondrial origin is an artefact.
Genome Biol. Evol. 9:373–379 (2017).

224. Martin WF: Symbiogenesis, gradualism and mitochondrial energy in eukaryote evolution.
Period. Biol. 119:141–158 (2017).

2016

223. Weiss MC, Neukirchen S, Roettger M, Mrnjavac N, Nelson-Sathi S, Martin WF, Sousa FL: New views on Luca.
Nature Microbiology 16230 (2016).

222. Ku C, Martin WF: A natural barrier to lateral gene transfer from prokaryotes to eukaryotes revealed from genomes: The 70% rule.
BMC Biology. 14:89 (2016).

221. Weiss MC, Sousa FL, Mrnjavac N, Neukirchen S, Roettger M, Nelson-Sathi S, Martin WF: The physiology and habitat of the last universal common ancestor.
Nature Microbiology 1:16116 (2016). (Covered by 93 news outlets, Altmetric score >1030)

220. Garg SG, Martin WF: Mitochondria, the cell cycle and the origin of sex via a syncytial eukaryote common ancestor.

Genome Biol. Evol. 8:1950–1970 (2016).

219. Chen X, Schreiber K, Appel J, Makowka A, Faehnrich B, Roettger M, Hajirezaei MR, Sönnichsen F, Schönheit P, Martin WF, Gutekunst K: The Entner-Doudoroff pathway is an overlooked glycolytic route in cyanobacteria and plants.
Proc. Natl. Acad. Sci. USA 113:5441–5446 (2016).

218. Horneck G, Walter N, Westall F, Grenfell JL, Martin WF, Gomez F, Leuko S, Lee N, Onofri S, Tsiganis K, Saladino R, Pilat-Lohinger E, Palomba E, Harrison J, Rull F, Muller C, Strazzulla G, Brucato JR, Rettberg P, Capria MT: AstRoMap — European astrobiology roadmap. *Astrobiology* 16:201–243 (2016).

217. Gould SB, Garg SG, Martin WF: Bacterial vesicle secretion and the evolutionary origin of the eukaryotic endomembrane system.
Trends Microbiol. 24:525–534 (2016).

216. Sousa FL, Nelson-Sathi S, Martin WF: One step beyond a ribosome: the ancient anaerobic core.
BBA Bioenergetics. 1857:1027–1038 (2016).

215. Sousa FL, Neukirchen S, Allen JF, Lane N, Martin WF: Lokiarchaeon is hydrogen dependent.
Nature Microbiology. 16034 (2016).

214. Lane N, Martin WF: Mitochondria, complexity and evolutionary deficit spending.
Proc. Natl. Acad. Sci. USA 113:E666 (2016).

213. Martin WF, Sousa FL: Early microbial evolution: the age of anaerobes.
Cold Spring Harbor Persp. Biol. 8:a018127 (2016).

212. Schönheit P, Buckel W, Martin WF: On the origin of heterotrophy.
Trends Microbiol. 24:12–25 (2016).

211. Martin WF: Physiology, phylogeny, and the energetic roots of life.
Period. Biol. 118:343–352 (2016).

2015

210. Lane N, Martin WF. Eukaryotes really are special, and mitochondria are why.
Proc. Natl. Acad. Sci. USA 112:E4823 (2015).

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Books (edited):

2. Fangerau H, Geisler H, Halling T, Martin W (eds) *Classification and Evolution in Biology, Linguistics and the History of Science. Concepts – Methods – Visualization.* 198 pp. Steiner, Verlag, Stuttgart (2013).
1. Martin W, Müller M (eds) *Origin of Mitochondria and Hydrogenosomes.* 316 pp. Springer Verlag, Heidelberg (2007).

Book reviews:

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2. *The Principles of Life* by Tibor Gánti. Oxford University Press. Oxford, UK. *Trends Ecol. Evol.* 2004.

1. *Lateral DNA Transfer: Mechanisms and Consequences* (2002) by Frederic Bushman. Cold Spring Harbor Laboratory Press. Cold Spring Harbor, New York. *BioEssays* 24:482 (2002)

Patents:

2. TER gene of *Euglena gracilis*. European Patent 03022783.9
1. Pyruvate:$NADP^+$ oxidoreductase and uses thereof. European Patent 00117730.2

Referee service (research funding)

European Union FP7 (EU), European Research Council (EU), National Science Foundation (USA), Deutsche Forschungsgemeinschaft (D), US Department of Energy (USA), Science Foundation Ireland (IRL), Royal Society Wolfson Research Awards (UK), Wellcome Trust (UK), Wellcome Trust DBT Alliance (India), NASA (USA), German-Israeli Foundation (ISR), United States - Israel Binational Science Foundation (USA-ISR), Marsden Fund (NZ), John Templeton Foundation (USA), Natural Sciences and Engineering Research Council of Canada (CAN), Biotechnology and Biological Sciences Research Council (UK), Leverhulme Trust (UK), Bundesministerium für Bildung und Forschung (D), Minerva Stiftung (D-ISR), Schweizerischer Nationalfonds (CH), Netherlands Organization for Scientific Research (NL), Fonds zur Förderung der wissenschaftlichen Forschung (A), Agence Nationale de la Recherche (F), Hungarian National Research Fund (HU), Alexander von Humboldt Foundation (D), International Human Frontier Science Program (J), United States - Israel Binational Agricultural Research and Development Fund (USA-ISR), Independent Research Fund Denmark (DK), Volkswagen-Stiftung (D), India Alliance (UK-IN), European Commission Fellowships Programme (EU), EMBO Short Term Fellowships (EU), Deutscher Akademischer Austauschdienst (D), Istituto Pasteur-Fondazione Cenci Bolognetti (I), Binational Science Foundation (USA-ISR), International Science Foundation (USA), National Science Center (PL), University of Antwerp Research Council (B), Katholieke Universiteit Leuven (B), Grant Agency of the Czech Republic (CZ), Sorus Foundation (USA), Shota Rustaveli National Science Foundation (Republic of Georgia), Fonds voor Wetenschappelijk Onderzoek - Vlaanderen (B), Thüringer Ministerium für Wissenschaft (D), Thomas F. and Kate Miller Jeffress Memorial Trust (USA), David and Lucile Packard Foundation (USA), The W. M. Keck Foundation (USA), Carl-Zeiss-Stiftung (D), The John Simon Guggenheim Memorial Foundation (USA), La Caixa Foundation, (E)

Referee service (journals)

Acta Biotheoretica, Advances in Ecology, Algal Reseach, American Journal of Botany, American Naturalist, Angewandte Chemie, Annals of the New York Academy of Science, Antonie van Leeuwenhoek, Applied Microbiology and Biotechnology, Archaea, Astrobiology, Biochimica et Biophysica Acta Bioenergetics, Biochimie, BioEssays, Biogeosciences, Bioinformatics, Biologia, Biological Chemistry, Biological Reviews, Biology Direct, Biophysical Journal, BioScience, BioSystems, BMC Bioinformatics, BMC Evolutionary Biology, BMC Genomics, Botanica Acta, Cell, Cell Systems, Cellulose, Central European Journal of Biology, Comparative Biochemistry and Physiology C, Current Biology, DNA Research, Earth and Planetary Science Letters, Elements, eLife, EMBO Journal, EMBO Reports, Environmental Microbiology, Eukaryotic Cell, European Journal of Biochemistry, Evolution, Experimental Parasitology, Frontiers in Zoology, Frontiers in Microbiology, Functional and Integrative Genomics, FEBS Journal, FEBS Letters, FEMS Microbiology Letters, FEMS Microbiological Reviews, Gene, Genome Biology, Genome Biology and Evolution, Genome Research, Geomicrobiology Journal, Heredity, International Journal of Parasitology, International Journal of Molecular Sciences, International Journal of Systematic and Evolutionary Microbiology, ISME Journal, Journal of Bacteriology, Journal of Basic Microbiology, Journal of Biology, Journal of Eukaryotic Microbiology, Journal of Experimental Zoology, Journal of Cell Biology, Journal of Cell Science, Journal of Heredity,

Journal of Molecular Biology, Journal of Molecular Evolution, Journal of Phycology, Journal of Proteome Research, Journal of Systems Chemistry, Journal of Theoretical Biology, Marine Biology, Marine Biotechnology, Marine Ecology, mBio, Metabolites, Microbiology (UK), Microbiology and Molecular Biology Reviews, Mitochondrion, Mobile Genetic Elements, Molecular and Cellular Biology, Molecular and Developmental Evolution, Molecular and General Genetics, Molecular Biology and Evolution, Molecular Microbiology, Molecular Phylogenetics and Evolution, Molecular Plant, Nature, Nature Communications, Nature Ecology and Evolution, Nature Genetics, Nature Microbiology, Nature Plants, Nature Reviews Chemistry, Nature Reviews Genetics, Nature Reviews Microbiology, Naturwissenschaften, Nucleic Acids Research, New Phytologist, Origin of Life and Evolution of the Biosphere, Periodicum Biologorum, Philosophical Transactions of the Royal Society of London: Biological Sciences, Photosynthesis Research, Physical Biology, Physiologia Plantarum, Phytochemistry, Plant Cell, Plant Molecular Biology, Plant Physiology, Plant Systematics and Evolution, Precambrian Research, Proceedings of the Royal Society: Series B, Proceedings of the Royal Society Biology Letters, Proceedings of the National Academy of Sciences USA, Protoplasma, PLoS Biology, PloS Genetics, RNA Biology, Royal Society Interface Focus, Science, Science Advances, Scientific Reports, Systematic Biology, The ISME Journal, Theoretical and Applied Genetics, Trends in Biochemical Sciences, Trends in Ecology and Evolution, Trends in Genetics, Trends in Molecular Medicine, Trends in Parasitology, Trends in Plant Science, Zoology

Invited lectures, 2004–present

11.22 Fakultät für Chemie und Biowissenschaften, Karlsruhe Institute of Technology, D
11.22 Plenary Lecture, oLife Fellowship Programme Annual Meeting, Groningen, NL
10.22 Moore Simons Foundation Eukaryotes Initiative (online)
09.22 Plenary Lecture, Annual Meeting Croatian Society for Biochemistry and Mol. Biol., Brela, HR
09.22 University of Milan Bicocca TeCSBi PhD Meeting, Avigliana, I
07.22 Archaea Symposium: Stoffwechsel und Evolution (Emeritierung Peter Schönheit), Kiel
06.22 Public lecture, Wasserstoff in der frühen Evolution, Haus der Universität, Düsseldorf
05.22 Public lecture, Stellarium Erkrath, Ursprung des Lebens, Düsseldorf
03.22 Riken Symposium (Japan) Emergence in Biological Systems (online)
11.21 Public lecture, Ursprung des Lebens, Haus der Universität, Düsseldorf
11.21 Life in the Universe 2, South Africa and Stanford (online)
11.21 Cyano 2021, German cyanobacteria community annual meeting (online)
10.21 Moore Simons Foundation Eukaryotes Initiative (online)
10.21 International Society for the Study of the Origin of Life, ISSOL 2021 (online)
10.21 Plenary, Wetsus Annual Meeting, Leuwaarden, NL
00.21 Annual Meeting of the Leucorea, Wittenberg, D
07.21 FEBS Meeting, Lubliana, SLO (online)
05.21 Smith College, MA, Institute Lecture Series, USA (online)
12.20 University of Houston, Departmental Lecture Series, USA (online)
07.20 10th Anniversary SusTech Symposium, Shenzhen, PRC (online)
01.20 Rajiv Ghandi Center for Biotechnology, Thiruvananthapuram, India
12.19 Leibniz Sozietät, Berlin, D
12.19 Richard von Weizsäcker Gymnasium, Ratingen, D
11.19 Symposium, Science of Early Life, Kloster Seeon, D
11.19 Undergraduate Programme, Microbiology, ETH Zürich, CH
11.19 The Origin of Eukaryotes, Aguron Institute, Pasadena, USA
10.19 Department of Genetics, Ecology and Evolution, University College London, UK
10.19 Center of Excellence Resolv Annual Meeting, Dortmund, D
09.19 Ursprung des Lebens, Blue Square, Ruhr University, Bochum, D
09.19 Ursprung des Lebens, Nacht der Universität, HHU Düsseldorf, D
05.19 Microbiology Seminar Series, ETH Zürich, Zürich, CH
05.19 What is Excellence? History of Science Roundtable Series, HHU Düsseldorf, D
05.19 Complexity Research Initiatiuve, University of Frankfurt, D
03.19 Strasbourg Microbiology Seminar, University of Strasbourg, Strasbourg, F
03.19 Origin of Photosynthesis, University of Bologna PhD programme series, Bologna, I
03.19 Origin of Eukaryotes, University of Bologna PhD programme series, Bologna, I

03.19 Origin of Life, University of Bologna PhD programme series, Bologna, I
03.19 30 years Hydrothermal Vents and Origin of Life, Granada, E
02.19 Molecular Evolution for High School Teachers (MINT), Düsseldorf, D
02.19 Molecular Evolution for High School Students and Teachers, Napier, NZ
02.19 Annual New Zealand Phylogeny Meeting, Deco 2019, Napier, NZ
01.19 54th Winter Seminar, Klosters, CH
12.18 Unité INSERM 1035, Université de Bordeaux, F
11.18 Plenary Lecture, Hadean Bioscience, Tokyo, J
11.18 Opening lecture, 34th International Prize for Biology Symposium (for A.H. Knoll), Nagoya, J
11.18 An evening for the Charity Initiative Achse (research on rare diseases), Berlin, D
11.18 Geo Omics of Archaea, Southern Universtiy of Science and Technology, Shenzhen, PRC
10.18 Interdisciplinary International Student Meeting on Orgin of Life, Düsseldorf, D
10.18 NRW Akademie der Wissenschaften und der Künste, Düsseldorf, D
09.18 Deutsche Sammlung für Mikroorganismen und Zellkulturen, Braunschweig, D
09.18 Otto Hahn Gymnsaium, Bergisch Gladbach, D
08.18 Plenary Lecture, European Bioenergetics Conference, Budapest, H
07.18 The Nei Lecture, SMBE Annual Meeting, Yokohama, J
07.18 Opening Plenary, Israel Society for Microbiology, Be'er Sheva, ISR
06.18 Università Degli Studi di Padova, Visiting Scientist PhD Lecture Series, Padua, I
06.18 Metaorganisms, Fondazione Golinelli, Bologna, I
06.18 Università Degli Studi di Padova, Visiting Scientist PhD Lecture Series, Padua, I
06.18 Università Degli Studi di Padova, Biological Lecture Series, Padua, I
06.18 Università Degli Studi di Padova, Visiting Scientist PhD Lecture Series, Padua, I
05.18 Acceptance Speech, Klüh Prize Ceremony
05.18 Università degli Studi di Milano Bicocca, 20th Anniversary lecture series, Milano, I
04.18 CRC Metaorganisms, University of Kiel, D
04.18 Gerhard C. Stark Foundation Annual Fellows Meeting, Düsseldorf, D
04.18 Department of Geology, University of Stockholm, S
04.18 Department of Chemistry, University of Strasbourg, F
04.18 Department of Genetics, University of Florida, Gainseville, USA
04.18 Dean's Interdisciplinary Seminar Series, University of Florida, Gainseville, USA
03.18 German Chlamydia Workshop, Kaiserswerth, D
03.18 Westfälische Volkssternwarte (Planetarium), Recklinghausen, D
03.18 Bioenergetics and Neurodegenerative Disease (ANMI), Paris, F
02.18 Department of Plant Biology, Purdue University, USA
02.18 Department of Biochemistry, Purdue University, USA
01.18 New Year's address for Geosciences, University of Münster, D
01.18 Gymnasium Norf, Neuss, D
12.17 Biodiversity Research Center, Academia Sinica, Taipei, TW
11.17 Spemann Graduate School, University of Freiburg, D
11.17 NRW Akademie der Wissenschaften, Düsseldorf, D
11.17 Gymnasium Norf, Neuss, D
11.17 Medical Research Council Mitochondrial Biology Unit, Cambridge, UK
11.17 University of Vienna, Continuum Symposium, Vienna, A
11.17 Spiridion Brusina Lecture, Croatian Society for Natural Sciences, Zagreb, HR
09.17 University of Oslo, Origin of Life Symposium, Oslo, NOR
08.17 Plenary, International Conference on Protistiology, Prague, CZ
07.17 Plenary, International Symposium on Applied Bioinorganic Chemistry, Toulouse, F
06.17 Center for Integrative Genomics, Lausanne, CH
05.17 Computational Biology Research Center, KAUST, KSA
05.17 Natural History Museum, Vienna, A
05.17 Department of Microbiology, University of Vienna, A
05.17 Linus Pauling Memorial Lecture Series, Portland, OR, USA
05.17 Department of Microbiology, Portland State University, Portland, OR, USA
05.17 Department of Microbiology, University of British Columbia, Vancouver, CAN
04.17 Department of Biochemistry, University of Toronto, CAN
03.17 Genome Evolution Mishima, National Institute of Genetics, Mishima, Japan
03.17 National Cheng Kung University, Tainan, TW
03.17 National Chung Hsing University, Taichung, TW
03.17 Distinguished Lecture, Academia Sinica, Taipei, TW
02.17 Institutional Seminar, Center for Genomic Sciences, UNAM Cuernevaca, Mex
02.17 Frontiers in Genomics Programme, UNAM Cuernevaca, Mex

02.17 Biannual retreat, Department of Biology, Università Degli Studi di Padova, I
02.17 Darwin Day 2017, Museo di Storia Naturale di Milano, Milano, I
02.17 Forschung im Fokus, Haus der Universität, Düsseldorf, D
01.17 Henkelsaal, Düsseldorf, D
01.17 Origin of Life Symposium, University of Newcastle, UK
01.17 Institute for Advanced Studies, University of Durham, UK
12.16 Department of Geociences, University of Heidelberg, D
12.16 Department of Microbiology, University of Dresden, D
11.16 Haus der Wissenschaft, Braunschweig, D
11.16 Annual Meeting of the Biochemical Society of Mexico, Aguascalientes, Mex
09.16 Royal Society workshop, Evolution of the Biological Pump, Kavli House, UK
07.16 Opening Plenary, 19th European Bioenergentics Conference, Riva del Garda, I
05.16 The Beilstein Symposium on Origin of Life, Cheiemsee, D
05.16 ITQB Oeiras, POR
04.16 The Rotary Club Düsseldorf, D
02.16 Weizmann Institute, Rehovot, ISR
01.16 New Year's Reception of the Rektorin, D
11.15 The Laboratory for Molecular Biology, Cambridge, UK
11.15 Pontifical Academy of Sciences, The Vatican
10.15 University of Münster, D
10.15 Inaugural Meeting of the Institute Biologie Paris Seine, F
09.15 Max-Planck-Institute for Cell Biology, Dresden, D
09.15 Biannual Meeting of the German Botanical Society (Plenary), Freising, D
09.15 Ökumenisches Bildungswerk, Hochdahl, D
08.15 Annual Meeting of the Italian Society for the Study of Evolution, Bologna, I
08.15 Society for the Study of Prokaryotic Photosynthesis (Opening Plenary), Tübingen D
06.15 Volcani Research Center, Tel Aviv, ISR
06.15 Biological Research Center, Szeged, H
05.15 Annual Meeting of the Belgian Biochemical Society, Louvain, B
03.15 Annual Meeting of the Society for General Microbiology (SGM), Birmingham, UK
03.15 Annual Meeting of the German Society for Microbiology (VAAM), D
01.15 GeoMar, University of Kiel, D
11.14 Université Paris 6, F
11.14 Symbiomics Conference, Mallorca, E
11.14 University of Edinburgh, UK
11.14 University of Zagreb, HR
10.14 Public lecture, "Leben" Naturwissenschaftliches Kolloquium, Gymnasium Norf, D
10.14 National Academy of Science Sackler Symposium on Endosymbiosis, Irvine, USA
09.14 HDBMB Croatian Society for Molecular Biology Conference, Zadar, HR
09.14 University of Luxembourg, LU
09.14 ITQB Molecular Biology PhD student retreat, Areia Branca, POR
09.14 The Genome: Structure, Expression, Evolution, Stazione Anton Dohrn, Naples, I
07.14 European Bioenergetics Conference, Lisbon, POR
06.14 Euroscience Open Forum, "What is Life?", Copenhagen, DK
06.14 Annual Student's Symposium, Gatersleben, D
04.14 SMBE Satellite Meeting on Evolutionary Networks, Kiel, D
04.14 Annual Meeting of the British Society for Protist Biology, Lancaster, UK
03.14 Public lecture, "Ursprung des Lebens", Universität in der Stadt series, Düsseldorf, D
02.14 Darwin Day Lecture, University of Oslo, NOR
02.14 Annual PhD Graduation Ceremony Special Lecture, University of Düsseldorf, D
01.14 Gulbenkian Institute, History of Biology Lecture Series, Oeiras, POR
12.13 Evolutionary Biology Lecture Series, University of Mainz, D
11.13 Kyoto Prize Symposium for Masatoshi Nei, National Institute of Genetics, Mishima, J
11.13 Early Earth Series, Earth Science Department, ETH Zürich, CH
10.13 EMBO Member's Meeting, Heidelberg, D
08.13 The EMBO Lecture, 12th Int. Conf. on Endocytobiology and Symbiosis, Halifax, CA
07.13 SMBE Annual Meeting, Symposium Major Gene Flows in Early Evolution, Chicago, USA
06.13 Spemann Graduate School of Biology and Medicine, University of Freiburg, D
05.13 Gulbenkian Institute, Oeiras, POR
05.13 Instituto de Tecnologia Química e Biológica, Lisbon, POR
05.13 PhD Graduate Programme, Gulbenkian Institute, Oeiras, POR
05.13 Institute Seminar Series, Gulbenkian Institute, Oeiras, POR

03.13 Annual Meeting of the German Society of Cell Biologists, Heidelberg, D
02.13 Planetarium Bochum, D
02.13 American Academy for the Advancement of Science Annual Meeting, Boston, USA
01.13 Ecology and Evolution Seminar Series, Princeton, USA
01.13 Institute for Theoretical Studies, Orgin of Life Symposium, Princeton, USA
12.12 Faculty of Medicine, University of Marseille, F
11.12 Royal Society Kavli Centre, “Bioenergetics and the major evolutionary transitions“ UK
11.12 Royal Society, “Energy transduction and genome function: an evolutionary synthesis“ UK
10.12 Agouron Institute, “The comings and goings of early animal life“ Washington DC, USA
09.12 Annual Meeting of the German Society for Gerontology, Bonn, D
09.12 Natural History Museum and Planetarium, Münster, D
08.12 Gordon Conference on Microbial C1 Metabolism , Maine, USA
07.12 Annual Meeting of the Society for Experimental Biology, Salzburg, A
06.12 Annual Meeting of the Società Botanica Italiana, Padova, I
05.12 University of Frankfurt am Main, D
05.12 EMBO Workshop Genome Evolution, Venice, I
04.12 NASA-NSF Workshop “Alternative Chemistries“ Washington DC, USA
03.12 Florida State University, USA
02.12 Evolutionary Cell Biology, National Center for Biological Science, Bangalore, India
02.12 MSc Seminar series, Unviersity of Gießen, D
11.11 University of Strasbourg, Symposium “Proteins in Evolution“, Strasbourg, F
11.11 University College London, Symposium “Origin of life“, London, UK
10.11 Pufendorf Symposium “Enigmas in the early evolution of life“, Lund, S
09.11 Molecular Evolution in the Genomic Era, University III, Rome, I
09.11 Public lecture “Was ist Leben?“ Evangelische Stadtakademie, Düsseldorf, D
09.11 SFB-Symposium Endosymbiosis, Düsseldorf, D
09.11 Leopoldina Symposium “Was ist Leben?“ Halle, D
09.11 University of Marburg, D
07.11 Genome Biology and Evolution Summer School, Gulbenkian Institute, Oeiras, POR
07.11 Darwin Symposium, European Society for Evolutionary Biology, Seia, POR
07.11 SMBE Microbial Genome Evolution session, Kyoto, JPN
07.11 SMBE History of Molecular Biology and Evolution session, Kyoto, JPN
07.11 The Evening Lecture, 11th European Workshop of Astrobiology, Cologne
05.11 International Conference on Plant Mitochondrial Biology, Hohenroda, D
04.11 CNRS 7138 Systematics, Adaptation and Evolution, Paris, F
04.11 University of Vienna, A
03.11 Nordrhein-Westfälische Akademie der Wissenschaften, D
02.11 University of Barcelona, E
02.11 Earth Science Department, University of Washington, USA
02.11 The Mindlin Lecture, University of Washington, USA
01.11 University of Exeter, UK
12.10 Biocomplexity XI: The Evolution of Cooperation, Indiana University, USA
11.10 University of Nijmegen, NL
10.10 The Peter-Hemmerich-Vorlesung 2010, University of Konstanz, D
09.10 Energy and Entropy Symposium, Deutsche Luft- und Raumfahrt, Berlin, D
09.10 Opening Plenary, Extremophiles 2010, The Azores, POR
07.10 SMBE Tree of Life session, Lyon, F
06.10 COST Endosymbiosis Meeting, Bad Bevensen, D
06.10 Microbial Evolution Programme, University of Newcastle-Upon-Tyne, UK
06.10 Ecology and Evolution Programme, University College London, UK
05.10 Origin of Life (with Karl Stetter), Alfried Krupp Academy, Greifswald, D
05.10 Evolution, Cusanuswerk, Nittendorf, D
05.10 Department of Geological Sciences, Stockholm University, S
05.10 New Frontiers in Microbial Genome Research, Bielefeld, D
04.10 University of Bonn, D
04.10 University of Giessen, D
03.10 Sternwarte Neanderhöhe, Neanderthal, D
03.10 BMBF Classification and Evolution, Bonn, D
02.10 University of Utrecht, NL
01.10 Instituto de Tecnologia Quimica e Biologica, Oeiras, POR
12.09 Department of Chemistry, University of Jena, D
12.09 Darwin Series, Botanical Garden Düsseldorf, D

12.09 Academia Sinica, National Acaedmy of Science of Taiwan
11.09 Frontiers of Plant Science, Tai-Cheng University, Taiwan
11.09 Opening Lecture, 51st Phylogenetics Symposium, Braunschweig, D
11.09 Annual Meeting of the Swiss National Academy of Science, Lucerne, CH
11.09 Virginia Tech University, USA
10.09 Opening Lecture, ESF Meeting “Systems Chemistry II“, Balatonfured, H
10.09 Dominikanerkonvent Düsseldorf, D
10.09 Volkshochschule Kreefeld, D
09.09 Willi Hennig Symposium, Hohenheim, D
09.09 Leopoldina-Symposium on Organelle Genetics, Berlin, D
09.09 Botaniker-Tagung, Leipzig, D
08.09 BMBF annual retreat, Bergisch-Gladbach, D
07.09 Perspectives on the Tree of Life, Dalhousie University, CAN
07.09 University of Heidelberg, D
06.09 Darwin Series, University of Osnabrück, D
06.09 Darwin Series, Museum König, Bonn, D
06.09 Technical University of Recklinghausen, D
06.09 Opening Plenary Lecture, SMBE 09, Iowa, D
05.09 Rüdiger Cerff’s Retirement Symposium, University of Braunschweig, D
05.09 University Duisburg-Essen, D
05.09 UNESCO Darwin 2000 Symposium, Venice, I
03.09 Heinrich Heine Institut, Düsseldorf “Universität in der Stadt“, D
02.09 Opening Lecture, BioEd Darwin 2000 Symposium, Christchurch, NZ
01.09 Howard Dalton Lecture, University of Warwick, UK
01.09 G.E. Fogg Lecture, Queen Mary University of London, UK
01.09 Dönberger Vortragsreihe, Ev. Gemeinde, Wuppertal, D
12.08 Annual Lecture of the Systematics Association, London, UK
11.08 University of Pittsburgh, USA
11.08 Philosophical Society of America Tree of Life Workshop, Pittsburgh, USA
10.08 UCLA Molecular Biology and Human Genetics, Los Angeles, USA
10.08 CalTech Geological and Planetary Sciences, Pasadena, USA
10.08 NASA Jet Propulsion Laboratory, Pasadena, USA
09.08 Faculty of Natural Sciences, Comenius University, Bratislava, SLO
07.08 De Bary Lecture on Symbiosis, University of Vienna, A
07.08 Department of Marine Biology, University of Vienna, A
05.08 Introductory Lecture in the Evolution Series, University of Halle, D
03.08 Royal Society of New Zealand, Palmerston North, NZ
02.08 Katzir Workshop, The Unbearable Complexity of Life, Tel Aviv, ISR
11.07 Royal Society Discussion Meeting, Evolution of Photosynthesis, London, UK
10.07 University of Tübingen, D
09.07 Endocytobiology X, Gmunden, A
07.07 CNRS Marseille, F
07.07 CIAR Evolutionary Biology Programme, Halifax, CAN
06.07 SMBE Annual Meeting, Halifax, CAN
06.07 German-Japanese Cyanobacteria Workshop, St. Goar, D
05.07 Das Leben und sein Ursprung, ein Abend der Begegnung mit Kardinal Meissner, D
05.07 EMBL, Heidelberg, Evolution in Schools, D
05.07 Universite Claude Bernard, Lyon, F
04.07 Stazione Zoologica Anton Dorne, Naples, I
03.07 Bayer Crop Science, Frankfurt am Main, D
03.07 Naturwissenschaftliche Gesellschaft, Essen, D
03.07 Massey University, Palmerston North, NZ
02.07 Annual Invitational NZ Phylogenetics Conference, Mt. Ruapeho, NZ
02.07 Otago University, Dunedin, NZ
02.07 University of Canterbury, Christchurch, NZ
01.07 University of Frankfurt am Main, D
12.06 Bayer Crop Science Early Discovery Symposium, Monheim, D
12.06 University of Bremen, D
12.06 University of Münster, D
10.06 Plant Genomics European Meeting, Venice, I
09.06 Annual Meeting of the German Plant Genetics Society, Kiel, D
06.06 University of Bayreuth, D

06.06 International Symposium on Microbial Sulfer Metabolism, Münster, D
06.06 Annual Meeting of the Italian Botanical Society, Alessandria, I
05.06 From vent chemistry to biochemistry, Santa Fe Institute, New Mexico, USA
04.06 Leopoldina Symposium, Microbial Life Strategies in the Environment, Bremen, D
04.06 Society for General Microbiology, Warwick, UK
03.06 Plenary Lecture, German Microbiological Society (VAAM) Jena, D
03.06 Queen Mary University of London, UK
03.06 Verein deutscher Biologen, Düsseldorf, D
01.06 University of Florida at Gainsville, USA
01.06 Evangelische Akademie, Arnoldshain, D
01.06 Biocomplexity: Primary Producers of the Sea, Rutgers University, USA
11.05 University of Essen, D
11.05 University of Utrecht, NL
10.05 100 Years of Endosymbiosis, Hamburg, D
09.05 University of Göteborg, S
07.05 Intenational Botanical Congress, Vienna, A
06.05 Archaea 2005, Munich, D
06.05 SMBE Annual Meeting, Auckland, NZ
06.05 American Society for Microbiology General Meeting, Atlanta, USA
03.05 FEBS Workshop origins of chloroplasts and mitochondria, Widlbad Kreuth, D
01.05 University of Bremen, D
12.04 International Prize for Biology Symposium for Tom Cavalier-Smith, Tokyo, JPN
11.04 University of Regensburg, D
10.04 Michigan State DOE Plant Science Annual Retreat, Michigan, USA
10.04 Society of German Biologists (vdbiol), Bonn, D
10.04 German Botanical Society, Braunschweig, D
10.04 RECOMB Annual Bionionformatics Meeting, I
09.04 Origin of Life, Les Treilles, F
07.04 PCA Bioinformatics, Stockholm, S
07.04 Kosef Korean-German Cooperation Meeting, Berlin, D
05.04 CIAR-NASA Gene Transfer and Eukaryote Origins, Vancouver, CDN
04.04 University of Bern, CH
04.04 BASF Plant Science, Ludwigshafen, D
03.04 University of Amsterdam, NL
03.04 Plant Molecular Biology, Dabringhausen, D
01.04 Stazione Anton Dorne, Napoli, I
1998–2003 79 additional national and international talks

PhD Students graduated and current

1. Gilbert Meyer-Gauen	1990–1994	Evolution of glyceraldehyde-3-phosphate dehydrogenase genes
2. Uta-Regina Böhle	1992–1996	Evolution of insular woodiness in the genus *Echium*
3. Katrin Henze	1993–1997	Origin and evolution of higher plant Calvin cycle genes
4. Jörg Bohlmann	1993–1997	Higher plant anthranilate synthase enzymes and genes
5. Dorothea Tholl	1994–1998	Bacterial homospermidine synthase enzyme and gene
6. Michael Donath	1994–1998	Intron dependent gene expression in plants
7. Vadim Goremykin	1994–1998	Chloroplast DNA phylogeny and evolution
8. Ulrich Nowitzki	1996–2000	Origin and evolution of plant sugar phosphate metabolism
9. Jens Pahnke	1996–2002	Molecular approaches to fern phylogeny
10. Sabine Hansmann	1997–2001	Chloroplast DNA evolution and molecular phylogenetic signal
11. Andrea Hansen	1998–2002	Amino acid biosynthesis pathway evolution
12. Carmen Rotte	1999–2003	Evolution of *Euglena* pyruvate:ferredoxin oxdiodeructase
13. Sandra Trennkamp	2000–2004	Higher plant very long chain fatty acid elongases
14. Meike Hoffmeister	2000–2004	Anaerobic energy metabolism in *Euglena* mitochondria
15. Ursula Theissen	2002–2006	Sulfide:quinone oxidoreductase in *Arenicola* mitochondria
16. Christian Winkler	2002–2006	Higher plant ATP-dependent phosphofructokinase
17. Simone Pütz	2003–2007	Evolutionary proteomics of *Trichomonas* hydrogenosomes
18. Benjamin Kilian	2003–2007	Evolution and domestication of Middle East diploid wheats

19. Gabriel Gelius-Dietrich	2003–2008	Biochemistry and evolution of chytrid hydrogenosomes
20. Sara Tucci	2004–2008	Wax ester fermentation in *Euglena* mitochondria
21. Silke Rosnowsky	2004–2008	Transformation of *Trichomonas vaginalis*
22. Nahal Ahamdinedjad	2005–2009	Evolutionary bioinformatics of mitochondrial genomes
23. Britta Delvos	2005–2009	Oomycete cell wall biosynthesis
24. Oliver Deusch	2005–2009	Genome evolution and the cyanobacterial origin of plastids
25. Assa Yeroslaviz	2005–2009	Gene expression in response to environmental stress
26. Nicole Grünheit	2006–2010	Evolutionary dynamics of eukaryotic organellar genes
27. Christian Esser	2006–2010	Evolutionary origins of eukaryotic nuclear genes
28. Verena Zimorski	2006–2010	Mechanisms of protein targeting to *Trichomonas* hydrogenosomes
29. Xavier Peirera-Bras	2007–2012	Biochemical compartmentation in *Trichomonas* hydrogenosomes
30. Mayo Röttger	2007–2013	Cyanobacterial genome evolution in Section V and plastid origins
31. Shijulal Nelson-Sathi	2008–2013	Networks of language evolution and gene transfer in Haloarchaea
32. Peter Major	2008–2013	Signals of protein targeting to *Trichomonas* hydrogenosomes
33. Houda El-Haddad	2010–2013	Cytoskeletal evolution in *Tetrahymena thermophila*
34. David Bogumil	2010–2013	Chaperone-dependent protein evolution networks
35. Gary Kusdian	2010–2014	The amoeboid transition in *Trichomonas vaginalis*
36. Christian Wöhle	2010–2014	Evolutionary origins of *Chromera velia* nuclear genes
37. Kathrin Hoffmann	2009–2014	Aminotermini of *Trichomonas* hydrogenosomal proteins
38. Thorsten Thiergart	2010–2015	Genome evolution networks linking prokaryotes and eukaryotes
39. Ovidiu Popa	2009–2015	Directed networks of lateral gene transfer
40. Jan de Vries	2013–2016	Molecular basis of plastid longevity in *Elysia*
41. Chuan Ku	2013–2016	Endosymbiosis and the origin of eukaryotic genes
42. Harald Preisner	2013–2017	Cytoskeleton and amoeboid transformation of *Trichomonas*
43. Cessa Rauch	2013–2017	Ecology and evolution of *Elysia*
44. Sriram Garg	2013–2017	The evolution of eukaryotic cell biology
45. Nabor Chavez	2012–2018	Networks and methanogen evolution
46. Martina Preiner	2017–2020	Native metals in early evolution
47. Madeline Weiß	2015–2020	The habitat and physiology of LUCA
48. Sinje Neukirchen	2015–2021	Evolution of prokaryotic sulfur reduction
49. Julia Brückner	2018–2021	The mitochondrial origin of eukaryotic genes
50. Jessica Wimmer	2019–2022	The energetics and metabolism of LUCA
51. Andrey Vieira	2019–2022	Primordial N incorporation
52. Bing Song	2018–2022	Evolutionary bioinformatics and oxygen evolution
53. Falk Nagies	2019–	Eukaryote genome evolution
54. Michael Knopp	2016–	Evolution of primary metabolism
55. Nils Kapust	2017–	Domain fusions in the realm of protein clusters
56. Thorsten Klösges	2009–	Proteobacterial genome evolution networks
57. Delfina Pereira	2020–	Catalysis of primordial redox reactions
58. Nico Bremer	2021–	Ancestral state reconstruction of the first eukaryotes
59. Max Brabender	2021–	Catalysts of primordial N and C incorporation
60. Luca Modjeweski	2021–	Prokaryotic cofactors
61. Katharina Trost	2021–	Mitochondrial evolution
62. Loraine Schwander	2022–	Catalysts of primordial N and C incorporation
63. Natalia Mrnjavac	2022–	Protein structures of LUCA

Professors among former students and postdocs

Jörg Bohlmann, University of British Columbia, Vanvouver, Canada

Dorothea Tholl, Virginia Tech University, Blackburn Virginia, USA

Tal Dagan, University of Kiel, Germany

Filipa Sousa, University of Vienna, Austria
Shijulal Nelson-Sathi, Rajiv Gandhi Centre for Biotechnology, Trivandum, India
Chuan Ku, Academia Sinica, Taipei, Taiwan
Jan de Vries, University of Göttingen, Germany (tenure track)
Sven Gould, University of Düsseldorf (ausserplanmäßig)

Major grant recipients among former students

Tal Dagan, University of Kiel, Germany (ERC Starting Grant)
Filipa Sousa, University of Vienna, Austria (ERC Starting Grant)
Jan de Vries, University of Göttingen, Germany (ERC Starting Grant)
Shijulal Nelson-Sathi, Rajiv Ghandi Center for Biotechnology, Trivandrum (INSPIRE grant)
Chuan Ku, Academia Sinica, Taipeh, Taiwan (Weizmann Stipend)

Ten most important publications

Martin W, Cerff R: Prokaryotic features of a nucleus encoded enzyme: cDNA sequences for chloroplast and cytosolic glyceraldehyde-3-phosphate dehydrogenases from mustard (*Sinapis alba*). *Eur. J. Biochem.* 159:323–331 (1986).

- *Provides first evidence for the gene transfer corollary to endosymbiotic theory, provides very early evidence for outright lateral gene transfer based in evolutionary sequence comparisons.*

Martin W, Brinkmann H, Savona C, Cerff R: Evidence for a chimaeric nature of nuclear genomes: Eubacterial origin of eukaryotic glyceraldehyde-3-phosphate dehydrogenase genes. *Proc. Natl. Acad. Sci. USA* 90:8692–8696 (1993).

- *Provides initial evidence for endosymbiotic gene replacement in nuclear genomes.*

Martin W, Stoebe B, Goremykin V, Hansmann S, Hasegawa M, Kowallik KV: Gene transfer to the nucleus and the evolution of chloroplasts. *Nature* 393:162–165 (1998).

- *Provides the first evidence for massive transfers of genes from plastids to plant nuclei.*

Martin W, Müller M: The hydrogen hypothesis for the first eukaryote. *Nature* 392:37–41 (1998).

- *Predicts the existence of mitochondria in all eukaryotic lineages, predicts that the host for the origin of mitochondria was an archaeon, predicts common ancestry for all mitochondria and hydrogenosomes, predicts loss of mitochondrial function in lineages found to possess mitosomes.*

Martin W, Rujan T, Richly E, Hansen A, Cornelsen S, Lins T, Leister D, Stoebe B, Hasegawa M, Penny D: Evolutionary analysis of *Arabidopsis*, cyanobacterial, and chloroplast genomes reveals plastid phylogeny and thousands of cyanobacterial genes in the nucleus. *Proc. Natl. Acad. Sci. USA* 99: 12246–12251 (2002).

- *Provides first genome wide estimates for the contribution of cyanobacteria to plant nuclear genome evolution.*

Martin W, Russell MJ: On the origin of biochemistry at an alkaline hydrothermal vent. *Phil. Trans Roy. Soc. Lond. B* 362:1887–1925 (2007).

- *Predicts a H_2/CO_2 dependent metabolism for the common ancestor of all life, a methanogenic nature of the first archaea and an acetogenic nature of the first bacteria, outlines the contours of primordial autotrophic metabolic evolution.*

Nelson-Sathi S, Sousa FL, Röttger M, Lozada-Chávez N, Thiergart T, Janssen A, Bryant D, Landan G, Schönheit P, Siebers B, McInerney JO, **Martin** WF: Origins of major archaeal clades correspond to gene acquisitions from bacteria. *Nature* 517:77–80 (2015).

- *Demonstrates the existence of episodic, discontinuous gene transfer events in archaeal genome evolution.*

Ku C, Nelson-Sathi S, Roettger M, Sousa FL, Lockhart PJ, Bryant D, Hazkani-Covo E, McInerney JO, Landan GL, **Martin** WF: Endosymbiotic origin and differential loss of eukaryotic genes. *Nature* 524:427–432 (2015).

- *Demonstrates the role of endosymbiosis in eukaryote genome evolution.*

Weiss MC, Sousa FL, Mrnjavac N, Neukirchen S, Röttger M, Nelson-Sathi S, **Martin** WF: The physiology and habitat of the last universal common ancestor. *Nature Microbiology* 1:16116 (2016).

- *Presents the first genome-based inference of the physiology and habitat of the last universal ancestor of all cells by procedures that filter out lateral gene transfer effects.*

Preiner M, Igarashi K, Muchowska KB, Yu M, Varma SJ, Kleinermanns K, Nobu MK, Kamagata Y, Tüysüz H, Moran J, **Martin** WF: A hydrogen dependent geochemical analogue of primordial carbon and energy metabolism. *Nature Ecol. Evol*. 4:534–542 (2020).

- *Demonstrates that the backbone of carbon and energy metabolism in acetogens and methanogens unfolds overnight in the laboratory from H_2 and CO_2 in the presence of simple hydrothermal minerals Ni_3Fe, Fe_3O_4 and Fe_3S_4 as the sole catalysts.*

Organizational scientific activities

11.12	Co-Organizer, Royal Society Discussion Meeting: Energy Transduction and Genome Function: An Evolutionary Synthesis, London
03.09	Organizer, Japan Society for Promotion of Science joint German-Japanese Conference, „Genome Evolution“ Bad Honnef Germany,
09.05	Organizing Committe: DFG-NSF Biodiversity Meeting, Washington D.C.
06.03	Organizing Committe: Botanikertagung 2004, Braunschweig
01.03-12.07	Coordinator, DFG SPP 1127 Radiations: Origins of Biological Diversity
10.02	American Academy of Microbiology Colloquium "The Global Genome Question", Longboat Key, Florida
01.01	Co-Initiator (with K. Bachmann), DFG SPP 1127 Radiations: Origins of Biological Diversity
10.00	Coorganizer, Discussion Meeting "Theoretical Biology" Oberwolfach
09.00	Chair, "Organelle Evolution" Gordon Conference on Mitochondria and Chloroplasts
08.00	Organizing Committe: Botanikertagung 2000, Jena
07.00	Organizer: EMBO Workshop, "Origins of Cells and Organelles", Sweden
09.99	Scientific Committee "2nd European Phycological Congress," Italy
04.98	Organizing Committee "Endocytobiology VII," Freiburg
03.94	DFG-Workshop "Computeranalyse Molekularer Daten", Cologne
06.93	EMBO-Workshop "Molecular Evolution" am EMBL, Heidelberg
12.92	Research visit, Observatiore Oceanologique de Roscoff, Frankreich
08.92	Visiting Scientist, Laboratoire de Biologie Moléculaire Végétale, Université Joseph Fourier, Grenoble, Frankreich
06.92	Organizer: DFG Workshop "cDNA-Cloning" (3 weeks, 12 participants, Braunschweig)
02.90	Visiting Scientist, Laboratoire de Biologie Moléculaire Végétale, Université Joseph Fourier, Grenoble, Frankreich
09.91	Research visit, Observatiore Oceanologique de Roscoff, Frankreich
06.91	Visiting Scientist, Laboratoire de Biologie Moléculaire Végétale, Université Joseph Fourier, Grenoble, Frankreich

Current University Teaching (Düsseldorf)

	No.*	Duration	Type	Students
Fall Semester				
BSc Cell Compartmentation in Protists	427	2 weeks all day	Ü+VL	ca. 18
BSc Bioinformatics I: Grundlagen der Genomanalyse	419	2 weeks all day	Ü+VL	ca. 40
BSc Advanced Bioinformatics (Prog für Biologen)	433	2 weeks all day	Ü+VL	ca. 40
MSc Evolution and Biochemistry of Organelles	4406	6 weeks all day	Ü+VL	ca. 18
MSc Advanced Bioinformatics for Masters Students	4449	6 weeks all day	Ü+VL	ca. 20
Seminar: Molecular Evolution		1 h per week	VL	ca. 24
Advanced lab practicals (wet lab or computer)				
BSc and MSc theses				
PhD supervision				
Spring Semester				
MSc Advanced Bioinformatics for Masters Students	4449	6 weeks all day	Ü+VL	ca. 40
BSc Advanced Bioinformatics (Prog für Biologen)	433	2 weeks all day	Ü+VL	ca. 20
Seminar: Molecular Evolution		1 h per week	VL	ca. 24
Plant Physiology Lab Practical (shared teaching)		4 SWS	Ü	ca. 300
Advanced lab practicals (wet lab or computer)				
BSc and MSc theses				
PhD supervision				

Ü, Lab practical
VL, Lecture
SWS hour per week per semester

* course number in Düsseldorf Biology Curriculum, see: http://www.molevol.hhu.de/unsere-lehre

Fate of alumni: Professorships

Prof. Jörg Bohlmann 1997 – Full Professor of Biochemistry, Associate Director, The University of British Columbia, Vancouver, Kanada

Prof. Dorothea Tholl 1998 – Full Professor of Biological Sciences, Blacksburg, USA

Prof. Tal Dagan 2013 – Full Professor of Microbiology, Christian-Albrechts-Universität zu Kiel, Germany

Dr. Filipa Sousa 2016 – Assistant Prof. tenure track for Bioinformatics, Archaea Biology and Ecogenomics Unit, University of Vienna, Austria

Dr. Shijulal Nelson-Sathi 2016 – Assistant Prof. of Bioinformatics, Rajiv Gandhi Centre for Biotechnology (RGCB), Trivandum, India

Dr. Chuan Ku 2016 – Assistant Prof. tenure track for Marine Ecology, Academia Sinica, Taipei, Taiwan and Adjunct Assistant Professor, National Taiwan Normal University, Taiwan and Adjunct Assistant Professor, Biotechnology Center, National Chung Hsing University, Taiwan

Dr. Jan de Vries 2016 – Jun. Professor for Microbiology and Genetics, Göttingen, Germany

Fate of alumni: Permanent positions in academia

Dr. Jens Pahnke 2002 – Wissenschaftlicher Mitarbeiter, Universität Jena, Germany

Dr. Meike Hoffmeister 2004 – Wissenschaftliche Mitarbeiterin, Medizinische Hochschule Brandenburg Theodor Fontane, Brandenburg an der Havel, Germany

Dr. Gabriel Gelius-Dietrich 2008 – Hochschulreferat Studium und Lehre, Team Campusmanagement, Technische Hochschule Köln, Germany

Dr. habil. Sara Tucci 2008 – Klinik für Allgemeine Kinder- und Jugendmedizin, Universitätsklinikum Freiburg, Germany

Dr. Katrin Henze 2009 – Dean's Office Administration Dean, Faculty of Mathematics and Natural Sciences, Heinrich Heine University Düsseldorf, Germany

Dr. Nahal Ahmadinejad 2009 – Wissenschaftliche Mitarbeiterin, Heinrich Heine University Düsseldorf, Germany

Dr. Christian Esser 2010 – Wissenschaftlicher Mitarbeiter, Heinrich Heine University Düsseldorf, Germany

Dr. Cessa Rauch 2017 – Head Engineer, University of Bergen, Norway

Dr. Mayo Röttger 2018 – Wissenschaftlicher Mitarbeiter, Heinrich Heine University Düsseldorf, Germany

Dr. Verena Zimorski – Akademische Rätin, Heinrich Heine University Düsseldorf, Germany

Dr. habil. Sven Gould – Akademischer Rat, Heinrich Heine University Düsseldorf, Germany; 2021 Vertertungsprofessur University of Marburg

Fate of alumni: Permanent positions in non-university science

Dr. Vadim Goremykin 1998 – Fondazione Edmund Mach, Instituto Agrario San Michele All'Adige, Italy

Dr. Carmen Rotte 2003 – Pressesprecherin und Leiterin der Presse- und Öffentlichkeitsarbeit, Max-Planck-Institut für Biophysikalische Chemie, Göttingen, Germany

Dr. Assa Yeroslaviz 2009 – Senior Scientist, Max-Planck-Institute of Biochemistry, Martinsried, Germany

Dr. Britta Pinzger (née Delvos) 2009 – Wissenschaftliche Mitarbeiterin, Fraunhofer-Institut für Naturwissenschaftlich-Technische Trendanalysen, Euskirchen, Germany

Fate of alumni: Permanent positions in industry

Dr. Christian Winkler 2006 – Consultant, Institut für Blutgruppenforschung GmbH (part of Eurofins), Köln, Germany

Dr. Simone Pütz 2007 – Product Management, LumiraDX, Köln, Germany

Dr. Oliver Deusch 2010 – Scientific Product Manager, Computomics, Tübingen, Germany

Dr. Nicole Grünheit 2010 – Data Analyst, CeGaT GmbH, Tübingen, Germany

Dr. Xavier Pereira-Bras 2012 – Clinical Research Associate, Ardeypharm GmbH, Herdecke, Germany

Dr. Houda El-Haddad 2013 – Qiagen, Germany

Dr. Gary Kusdian 2014 – Gebietsmanager, Eppendorf, Germany

Dr. Madeline Weiß 2020 – Deutsche Saatgutveredelung AG, Lippstadt, Germany

Fate of alumni: Jobs in science

Dr. Sandra Trenkamp 2004 – Head of Biochemical Laboratory, Deutsches Diabetes-Zentrum, Düsseldorf Germany

Dr. Ovidiu Popa 2013 – Postdoc, Institut für Quantitative und Theoretische Biologie, Heinrich Heine University Düsseldorf, Germany

Dr. Christian Wöhle 2014 – Wissenschaftlicher Mitarbeiter, Max-Planck-Genome-Centre Cologne, Germany

Dr. Thorsten Thiergart 2015 – Postdoc, Bioinformatician, Max-Planck-Institute for Plant Breeding Research, Cologne, Germany

Dr. Sriram Garg 2017 – Postdoc, Heinrich Heine University Düsseldorf, Germany
Dr. Joana Xavier 2021 – Postdoc, Center for Life's Origin and Evolution, University College London, UK
Dr. Martina Preiner 2021 – Postdoc, Department of Ocean Systems (OCS) Royal Netherlands Institute for Sea Research Texel, NL

Fate of alumni: Jobs in industry

Dr. Gilbert Meyer-Gauen 1994 – Director, Asset Management, National Oilwell Varco, Houston, Tx, USA
Dr. Michael Donath 1998 – Regional Account Manager, Alexion Pharmaceuticals, Germany
Dr. Benjamin Kilian 2007 – Senior Scientist, The Crop Trust, Bonn, Germany
Dr. Peter Major 2013 – Senior Project Leader, Lonza Pharma & Biotech, Basel, Switzerland
Dr. David Bogumil 2013 – Bioinformatics Analyst, BiomX, Ness Ziona, Israel