

Dario Riccardo Valenzano, PhD

## Curriculum Vitae of Dario Riccardo Valenzano

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### Addresses and contact:

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### Academic status

From July 2021 Full Professor at the University Clinic Jena and at the Friedrich Schiller University in Jena (Germany); Senior Group Leader at the Leibniz Institute on Aging (Fritz-Lipmann Institute)

### Scientific appointments

From January 2024 Director, Leibniz Institute on Aging, Fritz Lipmann Institute  
From April 2023 Principal Investigator at the Cluster of Excellence “Balance of the Microverse” at the Friedrich Schiller University in Jena, Germany  
From July 2021 Senior Group Leader at the Leibniz Institute on Aging (Fritz-Lipmann Institute)  
2016-2021 CECAD Principal Investigator, CECAD, University of Cologne  
2013-2021 Max Planck Research Group Leader (equivalent to Associate Professor), Max Planck Institute for Biology of Ageing

### Education

April 2006 Ph.D. in Neuroscience, Scuola Normale Superiore, Pisa, Italy  
December 2002 Diploma in Biology at Scuola Normale Superiore, Pisa, Italy  
October 2001 BSc and MSc in Biology at the University of Pisa, Pisa, Italy

### Research Experience

From Jan 2024 Director, Leibniz Institute on Aging, Fritz-Lipmann Institute  
From April 2023 Principal Investigator at the Cluster of Excellence “Balance of the Microverse” at the Friedrich Schiller University in Jena, Germany  
From July 2021 Senior Group Leader at the Leibniz Institute on Aging (Fritz-Lipmann Institute)  
2016-2021 CECAD Principal Investigator, CECAD, University of Cologne  
2013-2021 Max Planck Research Group Leader  
Max Planck Institute for Biology of Ageing  
2011-2013 Research Associate  
Stanford University, Department of Genetics (Brunet lab)  
2006-2011 Postdoctoral Fellow  
Stanford University, Department of Genetics (Brunet lab)  
2003-2006 Graduate Student in Neurobiology at Scuola Normale Superiore, Pisa, Italy (Cellerino lab)  
2000-2002 Undergraduate Thesis Research  
ISTC of the CNR, Rome, Italy

### Awards and Honors

2025 Elected member of the Academy for Health and Lifespan Research (AHLR)  
2024 Keynote lecture, Società Italiana di Biologia Evoluzionistica (SIBE), Naples, IT  
2023 Keynote lecture at Behavioral Ecology Meeting (BEM), Chioggia, IT

Dario Riccardo Valenzano, PhD

2021	Seeon Conference – Microbiota, Probiotics and Host, Keynote speaker, DE (video)
2021	Keynote Speaker, 3rd International Symposium of the RTG1743, DE
2020	Keynote talk, SynAge annual retreat, University of Magdeburg, DE
2020	Keynote seminar, Signalife, Nice, FR
2020	Life Science Switzerland (LS2), keynote (video)
2019	Keynote seminar at the 5 <sup>th</sup> Annual ISEMPH meeting, Zurich, CH
2019	Nathan Shock New Investigator Award
2018-2021	EMBO YIP Young Investigator Award
2010-2011	Ellison/AFAR postdoctoral fellowship
2007-2010	Stanford Center on Longevity postdoctoral fellowship
2006	First prize at the Stanford Genetics Retreat poster session
2005	Young Researcher Scuola Normale Superiore Award
2004	Young Researcher Scuola Normale Superiore Award
2003	Young Researcher Scuola Normale Superiore Award
2002	University of Pisa Gold Medal for outstanding curricular achievements
1999	Scuola Normale Superiore undergraduate scholarship

#### List of current third-party grants

2018-2025:	DFG (SFB) CRC 1310 “Predictability in Evolution”: Funded four-year grant on “Co-evolution of gut microbiota and immune cells during ageing in killifish”, €1.073M.
2023-2027:	Carl-Zeiss Foundation “microbAlome, AI-based microbiome analysis in aging”, €1.25M.
2025-2026:	Packard Center, “Killifish ALS/FTD model with hexanucleotide repeat expansion in C9orf72”, \$74,000.
2024-2025:	Chan-Zuckerberg Initiative “NapMap: Charting the Molecular Atlas of Sleep in Miniature” \$60,000.
2025-2028:	Horizon MSCA Doctoral Network, “Evolutionary Genomics Medical Doctoral Network” €295,000.

#### Presentations

2002 Associazione Italiana di Primatologia, Rome, IT.

2004 Evolution and Human Behavior meeting, Berlin, GE; Italian Organization of Science Teachers (ANISN), Viareggio, IT.

2005 International Symposium on Neuroplasticity, Pisa, IT

2008 Aging Symposium: Linking Evolution to Mechanisms, Fribourg, CH.

2009 Stanford Current Issues in Genetics, Stanford, CA, US; Lunch Bunch UC Riverside Seminar Series, Riverside, CA, US; Stanford Center on Longevity, Stanford, CA, US.

2010 Stanford Current Issues in Genetics, Stanford, CA, US; Bay Area Aging Meeting Club, San Francisco, CA, US; Longevity Consortium, Washington D.C., US; Molecular Genetics of Aging, Cold Spring Harbor, NY, US; Bay Area Population Genetics Meeting, Stanford, CA, US.

2011 Buck Institute for Aging Research, Novato, CA, US; Scuola Normale Superiore, Pisa, IT; University of Pisa, Dept. Biologia Cellulare, Pisa, IT; Max-Planck Institute for the Biology of Ageing, Cologne, DE.

2012 Harvard University, Department of MCB, Cambridge, MA, US; UC Berkeley, Department of MCB, Berkeley, CA, USA; Max-Planck Institute for the Biology of Ageing, Cologne, DE; American Killifish Association, WKW, Portland, OR, US; University of Alabama at Birmingham, NORC, Birmingham, AL, US; ENDO 2012, Houston, Tx, US; DGIST, Hyeonpung-Myeon, Daegu, SK.

Dario Riccardo Valenzano, PhD

2013 Max-Planck Institute for the Biology of Ageing, Cologne, DE.

2014 1<sup>st</sup> Nothobranchius Symposium, Pisa, Italy; Poppelsdorfer Schlossgespräche: University of Bonn, DE; SFB670 – Cell-autonomous Immunity CECAD, Cologne, DE; IRB, Barcelona, ES.

2015 ERIBA, Groningen, NL; MPI Molecular Biomedicine, Münster, DE ; SFB680, Institute for Theoretical Physics, Cologne, DE; King's College, MCR Centre for Dev Neurobiol, London, UK; Babraham Institute, University of Cambridge, Cambridge, UK; Max Planck Institute for Plant Breeding, Cologne, DE; Francis Crick Institute, London, UK; Department of Zoology, University of Cambridge, Cambridge, UK; German Association for Aging Research (DGfA), Jena, DE.

2016 DZNE, Munich, DE; Cologne Ageing Conference, Cologne, DE ; 2<sup>nd</sup> Nothobranchius Symposium, Jena, DE ; Max Planck Institute for Developmental Biology, Tuebingen, DE; CSHL, Mechanisms of Aging, Cold Spring Harbor, USA; University of Bern, Bern, CH; Eawag Institute, Zürich, CH; Cellular Mechanisms of Neurodegeneration, Eibsee, DE; CECAD Faculty Retreat, Cologne, DE; Forum Scientiarum, University of Tuebingen, Tuebingen, DE; 1<sup>st</sup> International Symposium Research on Healthy Ageing, Lille, FR.

2017 GIF Young Scientists' Meeting, Ma'ale Ha-Hamisha, IL; LCSB, Luxembourg Center for Systems Biomedicine, Luxembourg, LU; Scuola Normale Superiore di Pisa, Pisa, IT; ICM Institute for Brain and Spinal Cord, Paris, FR; American Aging Association, NY, US; GRC, "Aging, Biology of", Les Diablerets, CH; GRC, "Ecological and Evolutionary Genomics", Biddeford, US; Jackson Laboratory, Farmington, US; 14<sup>th</sup> Transgenic Technology Meeting, Salt Lake City, US; Leibniz Institute on Aging, Jena, DE; IFOM, Milan, IT; Symposium on Innovative Models in Infection and Immunity, Lille, FR; EMBO, Heidelberg, DE; BMS Symposium, MPG, Berlin, DE; Oxford University, Zoology Department, Oxford, UK; AGEART, MPI-AGE, Cologne; Exploratory Round Table Conference (MPG, CAS), Shanghai, CN.

2018 Healthy Ageing: from molecules to organisms, Hinxton, UK; KU Leuven, Leuven, BE; Keystone Symposium Aging, Inflammation and Immunity, Austin, US; MyAgeGroup Symposium, Austin, US; Microbiome in Host Physiology and Aging Workshop, Singapore, SG; Humans and the Microbiome (CIFAR), NTU, Singapore, SG ; Journée de la Recherche Translationelle, Pasteur Institute, Paris, FR; Interventions to extend healthspan and lifespan, Kazan, RU; Annual EMBO YIP meeting, Vienna, AT; University of Pisa, Cellular and Developmental Biology, Pisa, IT; Seminar über Versuchstiere und Tierversuche, BfR, Berlin, DE; Old Herborn University Seminars, „Aging and the Microbiome“, DE; University of Kiel, CRC/SFB 1182, Kiel, DE; Max Planck Institute for Ornithology, Seewiesen, DE; Microbiological Colloquium (SFB 766), Tübingen, DE; UK Genome Science, Nottingham, UK; Models and insights in translational research, Goethe U, Frankfurt, DE; Cell Symposium Aging and Metabolism, Sitges, ES; Mechanisms of Aging, CSHL, Cold Spring Harbor, NY, US; Frontiers in Aging, Moscow State University, Moscow, RU; Bioscience Symposium Complexity of Aging, Copenhagen, DK; MRC London Institute of Medical Sciences, London, UK; Aquatic Models to study regeneration and aging, IRCAN, Nice, FR; IPMM/IPHS graduate program on Molecular Medicine, Cologne, DE; EMBO YIP Sectorial Meeting in Microbiology, Heidelberg, DE; DGfA meeting, Jena, DE; CECAD annual retreat, Cologne, DE.

2019 1<sup>st</sup> Crick-Beddington DevBio Symposium, Crick Institute, London, UK; Genetic, Evolution and Environment Lecture, UCL, London, UK; CDDF Workshop on Cancer Growth and Therapy, Munich, DE; Helsinki Institute of Life Science, Helsinki, FI; John Stuart Mill College, Vrij Universiteit, Amsterdam, NL; NUS, Singapore, SG; EMBO YIP, Singapore, SG; Genome Editing for Comparative Genomics, JEB, Massa Marittima, IT; GSK, Siena, IT; Max Planck Institute for Chemical Ecology, Jena, DE; Hallmarks of Biological Failure, Santa Fe Institute, Santa Fe, US; Model organisms for the study of aging and disease, Lausanne, CH; EMBL, Unit of Developmental Biology, Heidelberg, DE ; Quadram Institute, Norwich, UK; FLI Colloquium, Jena, Leibniz Institute on Aging, DE; Keynote seminar at the 5<sup>th</sup> Annual ISEMPH meeting, Zurich, CH; EMBO YIP Evolution Sectorial Meeting, Basel, CH; PhD Day, IRCAN, Nice, FR; 1<sup>st</sup> European Geroscience Conference, Madrid, ES; Beyond the Standard: Non-model Vertebrates in Molecular Biomedicine, EMBO Workshop, MDC, Berlin, DE; Asociación Latinoamericana de Genética, ALAG, Mendoza,

Dario Riccardo Valenzano, PhD

AR; 120<sup>th</sup> Intl Titisee Conference “Evolution of Immune Defense Mechanisms” Titisee, DE; Department of Genetics, University of Bari, IT; Max Planck for Chemical Ecology, Jena, DE; Gutenberg Workshop: The Biology of Ageing, Mainz, DE; CRC 1310 midterm symposium, Cologne, DE; Microbiota and Aging Symposium, CECAD, University of Cologne, DE; Gerontological Society of America, Austin, US; ICMM annual meeting, University of Copenhagen, Helsingør, DK; BIG Talk, Faculty of Biology and Medicine, University of Lausanne, Lausanne CH.

2020 Microbiota and Aging Symposium, Leibniz Institute, Jena, DE; Hohenheim University, Stuttgart, DE; Department of Genetics, University of Cologne, Cologne, DE; Seminar at PRBB, Barcelona, ES; Museum Mensch und Natur, Munich, DE; Keynote seminar, Signalife, Nice, FR; Intra- and Inter-cellular mechanisms of Aging, Keystone meeting, Vancouver, CA; ZMBH, University of Heidelberg, Heidelberg, DE; Brown University Colloquium on the Biology of Human Aging, video conference; AgingScienceTalks, video seminar; Institute Gulbenkian de Ciência, video seminar; 7<sup>th</sup> Aging Research & Drug Discovery Meeting (ARDD), video seminar; Michigan State University Ecology, Evolution and Behavior, video seminar; University of Muenster, Muenster, DE; TU Dresden, CMCB program (video); Keynote talk, SynAge annual retreat, University of Magdeburg, DE (video); Erasmus Medical Center, Rotterdam (video); BTI-PGS Virtual distinguished lecture, Cornell University (video); 2020 Molecular Biology Society of Japan (video); eLife Symposium: Aging, Geroscience and Longevity (video).

2021 MolMet webinar, Karolinska Institute (video); Aarhus University, Kjeldgaard Lectures (video); Life Science Switzerland (LS2), keynote (video) ; USC L. Davis School of Gerontology, L.A., US (video); University of Leicester, UK (video); Max Planck Lecture, MPFI, US (video); Keynote Speaker, 3rd International Symposium of the RTG1743, DE (video); Basic Biology of Aging Spring Speaker Series, UW in Seattle, US (video); Seeon Conference – Microbiota, Probiotics and Host, Keynote speaker, DE (video); Max Planck Institute for Developmental Biology, Tuebingen, DE; 8<sup>th</sup> Aging Research & Drug Discovery Meeting (ARDD), Copenhagen, DK; International African Turquoise Killifish Conference, MDI BL, Bar Harbor, ; EMBO YIN evolution sectoral meeting (online); International Congress of Zoology (online); EMBO YIN microbiology sectoral meeting, Bordeaux, FR.

2022 IPMM Web-Lecture Molecular Medicine (online); “Balance of the Microverse” Cluster of Excellence (online), Jena, DE; Interdisziplinäres Zentrum für Klinische Forschung (online), Jena, DE; 2nd Euro-Geroscience Conference, Toulouse, FR; UMC and Hubrecht Institute, Utrecht, NL; European Institute of Technology, Health Aging advanced course (online); Molecular, Cellular and Organismal drivers of aging, CNIO, Madrid, ES; Developmental Circuits in Aging – EMBO workshop, Crete, GR; 2022 IMB Conference Epigenetics of Ageing – Mainz, DE; ProMoAge: Protein Modification: a Key Mechanism for Ageing, Oberhof, DE; NIA Genetic Variation and Aging, UW, Seattle, US; INTECOL22, Geneva, CH; Annual Retreat, Hannover Medical School, Goslar, DE; Royal Belgian Zoological Society, Kortrijk, BE; Nathan Shock Center, University of Alabama, Birmingham, US; Living Systems III Symposium, Max Planck Institute for Biology, Tübingen, DE.

2023 Keynote lecture at Behavioral Ecology Meeting (BEM), Chioggia, IT; IIMBC, Warsaw, PL; CRC1310, annual meeting, Cologne, DE (online); Jena Microbiome Meeting, Jena, DE; Biology of Aging Symposium IV, 2023, Montreal, CA; Jacques Monod Conference on regeneration and aging, Roscoff, FR; American Aging Association, Oklahoma City, US; 2023 Biology of Aging Summer School, MBL, Woods Hole, US; 10<sup>th</sup> Aging Research & Drug Discovery Meeting (ARDD), Copenhagen, DK; Horizons in metaorganism research (CRC1182), Kiel, DE; Friedrich-Loeffler Institute, Institute of Molecular Pathogenesis, Jena, DE; Museum Koenig Bonn, MeeGene, Bonn, DE; Chinese Academy of Sciences, SINH, Shanghai, CH; TimePie Longevity Forum, Shanghai, CH; M3 Research Center, Tübingen Medical Faculty, Tübingen, DE.

2024 Baylor College of Medicine (MCB), Houston, Texas, US; DFG CRC1310 Retreat, Setubal, PT; EMBO Workshop Developmental Circuits in Aging, Nice, FR; Horizons in Aging Research at the FLI, Jena, DE; Curing Aging Conference, Chicago, US; Aging & Disease, Jena, DE; Multidisciplinary Institute of Aging (MIA), Coimbra, PT; Keynote opening lecture, Società Italiana di

Dario Riccardo Valenzano, PhD

Biologia Evoluzionistica (SIBE), Naples, IT; Brunet Lab 20<sup>th</sup> Anniversary, Stanford, US; Colloquium on aging in the web of life, Paris, FR.

2025 Global Healthspan Summit (by Hevolution) Riyadh, SA; Keystone Symposium Aging: New Frontiers in Rejuvenation and Gerotherapeutics (Q6) Breckenridge, US; JST-EMBO Global insights in life sciences: bridging European and Japanese research, Heidelberg, DE; Gonarezhou National Park, ZW; Freie Universität, Institute of Biology, Berlin, DE; “Colloquio della Classe di Scienze”, Scuola Normale Superiore di Pisa, Pisa, IT; Clinique la Prairie, Montreux, CH; 89<sup>th</sup> CSHL Symposium “Senescence and Aging”, CSH, NY, US.

#### Professional memberships and activities

German Association for Aging Research (DGfA)

Faculty of 1000 (F1000)

Board member, graduate school of Biology, University of Pisa, Pisa, Italy

Leibniz Graduate School on Aging, committee member, Jena, Germany

#### Organization of meetings and symposia

2012	Discussion leader, Gordon Research Seminar, Biology of Aging, Ventura, US
2015	Moderator, German Association for Aging Research, Jena, DE
2016	Scientific committee, Nothobranchius Symposium, Jena, DE
2018	organizer, 2018 Nothobranchius Symposium, Cologne, DE
2019	discussion leader, GlaxoSmithKlein “Palio Meeting” on the future of vaccines, US
2019	vice-chair, Gordon Research Conference, Biology of Aging, Sunday River, Maine, US
2021	chair, 2 <sup>nd</sup> eLife symposium on Aging, Geroscience and Longevity (online)
2021	Scientific committee, 2021 Nothobranchius Symposium (online)
2021	EMBO/YIN Evolution Sectoral Meeting
2022	Annual Meeting of the German Society for Aging Research
2022	chair, Conservation Genomics at the Population Level, Wellcome Genome Campus, Hinxton, Cambridge, UK
2023	chair, Gordon Research Conference, Biology of Aging, Barcelona, ES
2024	chair, Infection, Immunity and Aging, Jena, DE
2024	chair, 2024 Aging and Microbiome Conference, Jena, DE
2025	chair, Keystone Aging, Breckenridge, Colorado, US
2025	chair, 2025 Nothobranchius Symposium, Jena, DE
2025	co-chair, Aging and Microbiome Conference (AMC), Jena, DE

#### Serving on editorial board

Aging Biology

#### Reviewing activities

Scientific journals: Aging Cell; Aging and Mechanisms of Disease; BBA – Molecular Basis of Disease; BMC Genomics; BMC Microbiology; Cell; Cell Reports; Current Biology; Developmental Dynamics; Development Genes and Evolution; eLife; Frontiers in Microbiology; Experimental Gerontology; Fishes; G3: Genes, Genome, Genome Biology; Genome Biology and Evolution; Genome Research; Genetics; GeroScience; Gut Microbes; Hormone and Metabolic Research; Invertebrate Reproduction and Behavior; iScience; Journal of Comparative Physiology B; Journal of Experimental Biology; the Lancet Healthy Longevity; Microbial Cell; Microbiome; Molecular Biology and Evolution; Molecular Phylogenetics and Evolution; Nature; Nature Aging; Nature Communications; Nature Medicine; Nature Protocols; PLoS Genetics; PLoS ONE; PNAS; Proceedings of the Royal Society B; Science; Science Advances; Scientific Reports; Trends in Genetics.

Scientific publishers: Chicago University Press, Oxford University Press.

Research Grants: AFAR, Blood Cancer UK, Czech Science Foundation, DFG, ERC, Federico II University (Naples), HSFP, INSPIRE Geroscience, Polish National Science Centre, SWO (Belgium), Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen,

Dario Riccardo Valenzano, PhD

FWO), Università di Camerino (Italy), Simons Foundation, Swiss National Science Foundation, Wellcome Trust.

### Media coverage

- 2006 "Eat less, live more", The Economist  
<http://www.economist.com/node/6823498>
- 2015 "A model for ageing", Max Planck Gesellschaft news  
<http://tinyurl.com/oykxp92>
- 2015 "Short-lived fish may hold clues to human ageing"  
<http://www.nature.com/news/short-lived-fish-may-hold-clues-to-human-ageing-1.18945>
- 2016 "Live fast, die young", Nature | Technology feature  
<http://www.nature.com/nature/journal/v535/n7612/full/535453a.html>
- 2016 "Dem Traum der ewigen Jugend auf der Spur" BR Wissen  
<http://www.br.de/themen/wissen/altern-alterungsprozess-tierwelt-100.html>
- 2017 "Young poo makes aged fish live longer" Nature News  
<http://www.nature.com/news/young-poo-makes-aged-fish-live-longer-1.21770>
- 2017 "A fishy way to longevity: young poo" Science  
<http://www.sciencemag.org/news/sifter/fishy-way-longevity-young-poo>
- 2017 "Youthful poo makes aged fish live longer" Scientific American  
<https://www.scientificamerican.com/article/youthful-poo-makes-aged-fish-live-longer/>
- 2017 "Wired awake: 10 must read articles for April 6" Wired  
<http://www.wired.co.uk/article/wired-awake-060417>
- 2017 "Biology gone wild" Cell  
<http://www.sciencedirect.com/science/article/pii/S0092867417307626>
- 2017 "Gut microbes influence life expectancy" Elife  
<https://elifesciences.org/for-the-press/779a3695/gut-microbes-influence-life-expectancy>
- 2017 "Gut microbes from younger killifish extend life in older killifish" Medium  
<https://medium.com/beautyinaging/gut-microbes-from-younger-killifish-extend-life-in-older-killifish-9aafe1c15cf5>
- 2017 "Young guts make elderly fish sprightly" Nature  
<https://www.nature.com/articles/d41586-017-02936-1>
- 2018 "Gut microbes as a novel anti-aging intervention?" The Science Breaker  
<https://thesciencebreaker.org/breaks/microbiology/gut-microbes-as-a-novel-anti-aging-intervention>
- 2019 "Neutral Evolution shapes lifespan and ageing"  
<https://www.mpg.de/13660866/0702-balt-110438-neutral-evolution-shapes-lifespan-and-ageing>
- 2019 Der Killifisch und die Falten meines Vater  
<https://www.arte.tv/de/videos/086132-008-A/verknuepft/>
- 2019 "Die genetische Last des Killifisches"  
<https://www.laborjournal.de/editorials/1861.php>
- 2019 "Will he be 130?" Nov 22, Spiegel Online
- 2022 "Das Uhrwerk des Lebens" <https://www.zdf.de/arte/das-uhrwerk-des-lebens>
- 2023 "Alte Fische, altes Immunsystem" <https://www.laborjournal.de/editorials/2730.php>
- 2023 "My heartening summer school class on the new science of aging"  
<https://www.bostonglobe.com/2023/09/03/opinion/my-heartening-summer-school-class-new-science-aging/> (The Boston Globe).
- 2025 "This key protein could be responsible for brain aging" Nature News  
<https://www.nature.com/articles/d41586-025-00689-w>

### Teaching

- 2003 Undergraduate orientation school. Scuola Normale Superiore di Pisa, San Miniato Pisa, Italy.
- 2008 Undergraduate course "Longevity", Stanford University, USA.
- 2009 Undergraduate course "Longevity", Stanford University, USA.

2015	Graduate course "Genomics for the Neurosciences". Scuola Normale Superiore di Pisa, Italy.
2015	Master module "Functional Genomics". University of Cologne, Cologne, Germany.
2016	Graduate course "Neurogenomics". Scuola Normale Superiore di Pisa, Pisa, Italy.
2016	Master module "Population Genetics". University of Cologne, Cologne, Germany.
2016	Undergraduate course "Evolutionary Biology". Scuola Normale Superiore, Pisa, Italy.
2016	Master module "Functional Genomics". University of Cologne, Cologne, Germany.
2017	Master module "Population Genetics". University of Cologne, Cologne, Germany.
2018	Master module "Functional Genomics". University of Cologne, Cologne, Germany.
2018	Master module "Population Genetics". University of Cologne, Cologne, Germany.
2018	Module "Analysis of the Microbiome and Quantitative Genetics" for the PhD course "Neurogenomics". Scuola Normale Superiore, Pisa, Italy.
2018	"Stochastic models in DNA sequence evolution" (SS 2018), University of Cologne, Institute of Mathematics (with Professor Alexander Drewitz).
2018	PhD Summer School on "Aging and the Microbiome", Old Herborn University, Herborn, Germany.
2018	"Comparative and Experimental Approaches in Aging Biology Research, An Applied Laboratory in Aging Research Models" for undergraduates and PhD students. MDI Biological Laboratory, Bar Harbor, Maine, United States.
2018	CECAD Summer School, CECAD, University of Cologne, Cologne, Germany.
2018	"Forever young" – Frontiers in Aging Research. Lecture series of the IPMM/IPHS graduate program on Molecular Medicine, Cologne, Germany.
2019	Master module "Functional Genomics". University of Cologne, Cologne, Germany.
2019	Master module "Population Genetics". University of Cologne, Cologne, Germany.
2019	Module "Analysis of the Microbiome" for the PhD course "Neurogenomics", Scuola Normale Superiore, Pisa, Italy.
2020	"Evolutionary biology of Aging", Cologne Graduate School on Aging, Cologne, Germany.
2020	Cologne Graduate School on Aging Summer School, Cologne, Germany.
2021	"Genetics, Genomics, and Cell Biology of Aging", Princeton University, US.
2021	"Population Genetics and Molecular Evolution", University of Cologne, Germany.
2022	"Alterung und Krankheitsentstehung: Intestinal stem cells and microbiome in aging", Friedrich Schiller University, Jena, Germany.
2022	European Institute of Technology, Health Aging advanced course
2023	"Alterung und Krankheitsentstehung: Intestinal stem cells and microbiome in aging", Friedrich Schiller University, Jena, Germany.
2023	MBL Biology of Aging Advanced Research Training Summer Course, Woods Hole, Cape Cod, US.
2025	Evoluzione: dai Geni al Comportamento. Accademia Nazionale dei Lincei Scuola, Pisa, IT.