

Dario Riccardo Valenzano, PhD

## Curriculum Vitae

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Google Scholar: <https://scholar.google.com/citations?user=YILt54YAAAAJ&hl=en>

### Addresses

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Max Planck Institute for Biology of Ageing  
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50931, Cologne, Germany

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### Academic status

From July 2021	Full Professor at the Friedrich Schiller University of Jena (Germany) and Senior Researcher at the Leibniz Institute on Aging (Fritz-Lippman Institute)
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

Jan 2016 – present	CECAD Principal Investigator, CECAD, University of Cologne
Jun 2013 – present	Max Planck Research Group Leader Max Planck Institute for Biology of Ageing
May 2011 – May 2013	Research Associate Stanford University, Department of Genetics (Brunet lab)
May 2006 – Apr 2011	Postdoctoral Fellow Stanford University, Department of Genetics (Brunet lab)
Jan 2003 – Apr 2006	Graduate Student in Neurobiology at Scuola Normale Superiore, Pisa, Italy (Cellerino lab)
Aug 2000 – Dec 2002	Undergraduate Thesis Research ISTC of the CNR, Rome, Italy

### Awards and Honors

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

2018-2021:	DFG (SFB) CRC 1310 “Predictability in Evolution”: Funded four-year grant on “Co-evolution of gut microbiota and immune cells during ageing in killifish”.
2018-2021:	EMBO Young Investigator (YIP).

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- 2019-2020: NRW 80+: research grant to study the microbiome-immune axis in an elderly human patient cohort.
- 2019-2020: CECAD seed funding "Microbiome dynamics in a longitudinal mouse cohort: predicting individual mouse lifespan from stool microbiome composition and metabolic profile".

#### Presentations

- 2002 Associazione Italiana di Primatologia, Rome, IT
- 2004 Evolution and Human Behavior meeting, Berlin, GE
- 2004 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
- 2009 Lunch Bunch UC Riverside Seminar Series, Riverside, CA, US
- 2009 Stanford Center on Longevity, Stanford, CA, US
- 2010 Stanford Current Issues in Genetics, Stanford, CA, US
- 2010 Bay Area Aging Meeting Club, San Francisco, CA, US
- 2010 Longevity Consortium, Washington D.C., US
- 2010 Molecular Genetics of Aging, Cold Spring Harbor, NY, US
- 2010 Bay Area Population Genetics Meeting, Stanford, CA, US
- 2011 Buck Institute for Aging Research, Novato, CA, US
- 2011 Scuola Normale Superiore, Pisa, IT
- 2011 University of Pisa, Dept. Biologia Cellulare, Pisa, IT
- 2011 Max-Planck Institute for the Biology of Ageing, Cologne, DE
- 2012 Harvard University, Department of MCB, Cambridge, MA, US
- 2012 UC Berkeley, Department of MCB, Berkeley, CA, USA
- 2012 Max-Planck Institute for the Biology of Ageing, Cologne, DE
- 2012 American Klifish Association, WKW, Portland, OR, US
- 2012 University of Alabama at Birmingham, NORC, Birmingham, AL, US
- 2012 ENDO 2012, Houston, Tx, US
- 2012 DGIST, Hyeonpung-Myeon, Daegu, SK
- 2013 Max-Planck Institute for the Biology of Ageing, Cologne, DE
- 2014 1<sup>st</sup> Nothobranchius Symposium, Pisa, Italy
- 2014 Poppelsdorfer Schlossgespräche: University of Bonn, DE
- 2014 SFB670 – Cell-autonomous Immunity CECAD, Cologne, DE
- 2014 IRB, Barcelona, ES
- 2015 ERIBA, Groningen, NL
- 2015 MPI Molecular Biomedicine, Münster, DE
- 2015 SFB680, Institute for Theoretical Physics, Cologne, DE
- 2015 King's College, MCR Centre for Dev Neurobiol, London, UK
- 2015 Babraham Institute, University of Cambridge, Cambridge, UK
- 2015 Max Planck Institute for Plant Breeding, Cologne, DE
- 2015 Francis Crick Institute, London, UK
- 2015 Department of Zoology, University of Cambridge, Cambridge, UK
- 2015 German Association for Aging Research (DGfA), Jena, DE
- 2016 DZNE, Munich, DE
- 2016 2<sup>nd</sup> Cologne Ageing Conference, Cologne, DE
- 2016 2<sup>nd</sup> Nothobranchius Symposium, Jena, DE
- 2016 Max Planck Institute for Developmental Biology, Tuebingen, DE
- 2016 CSHL, Mechanisms of Aging, Cold Spring Harbor, USA
- 2016 University of Bern, Bern, CH
- 2016 Eawag Institute, Zürich, CH
- 2016 Cellular Mechanisms of Neurodegeneration, Eibsee, DE
- 2016 CECAD Faculty Retreat, Cologne, DE
- 2016 Forum Scientiarum, University of Tuebingen, Tuebingen, DE
- 2016 1<sup>st</sup> International Symposium Research on Healthy Ageing, Lille, FR
- 2017 GIF Young Scientists' Meeting, Ma'ale Ha-Hamisha, IL

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2017 LCSB, Luxembourg Center for Systems Biomedicine, Luxembourg, LU  
2017 Scuola Normale Superiore di Pisa, Pisa, IT  
2017 ICM Institute for Brain and Spinal Cord, Paris, FR  
2017 American Aging Association, NY, US  
2017 GRC, "Aging, Biology of", Les Diablerets, CH  
2017 GRC, "Ecological and Evolutionary Genomics", Biddeford, US  
2017 Jackson Laboratory, Farmington, US  
2017 14<sup>th</sup> Transgenic Technology Meeting, Salt Lake City, US  
2017 Leibniz Institute on Aging, Jena, DE  
2017 IFOM, Milan, IT  
2017 Symposium on Innovative Models in Infection and Immunity, Lille, FR  
2017 EMBO, Heidelberg, DE  
2017 BMS Symposium, MPG, Berlin, DE  
2017 Oxford University, Zoology Department, Oxford, UK  
2017 AGEART, MPI-AGE, Cologne  
2017 Exploratory Round Table Conference (MPG, CAS), Shanghai, CN  
2018 Healthy Ageing: from molecules to organisms, Hinxton, UK  
2018 KU Leuven, Leuven, BE  
2018 Keystone Symposium Aging, Inflammation and Immunity, Austin, US  
2018 MyAgeGroup Symposium, Austin, US  
2018 Microbiome in Host Physiology and Aging Workshop, Singapore, SG  
2018 Humans and the Microbiome (CIFAR), NTU, Singapore, SG  
2018 Journée de la Recherche Translationelle, Pasteur Institute, Paris, FR  
2018 Interventions to extend healthspan and lifespan, Kazan, RU  
2018 Annual EMBO YIP meeting, Vienna, AT  
2018 University of Pisa, Cellular and Developmental Biology, Pisa, IT  
2018 Seminar über Versuchstiere und Tierversuche, BfR, Berlin, DE  
2018 Old Herborn University Seminars, „Aging and the Microbiome“, DE  
2018 University of Kiel, CRC/SFB 1182, Kiel, DE  
2018 Max Planck Institute for Ornithology, Seewiesen, DE  
2018 Microbiological Colloquium (SFB 766), Tübingen, DE  
2018 UK Genome Science, Nottingham, UK  
2018 Models and insights in translational research, Goethe U, Frankfurt, DE  
2018 Cell Symposium Aging and Metabolism, Sitges, ES  
2018 Mechanisms of Aging, CSHL, Cold Spring Harbor, NY, US  
2018 Frontiers in Aging, Moscow State University, Moscow, RU  
2018 Bioscience Symposium Complexity of Aging, Copenhagen, DK  
2018 MRC London Institute of Medical Sciences, London, UK  
2018 Aquatic Models to study regeneration and aging, IRCAN, Nice, FR  
2018 IPMM/IPHS graduate program on Molecular Medicine, Cologne, DE  
2018 EMBO YIP Sectorial Meeting in Microbiology, Heidelberg, DE  
2018 DGfA meeting, Jena, DE  
2018 CECAD annual retreat, Cologne, DE  
2019 1<sup>st</sup> Crick-Beddington DevBio Symposium, Crick Institute, London, UK  
2019 Genetic, Evolution and Environment Lecture, UCL, London, UK  
2019 CDDF Workshop on Cancer Growth and Therapy, Munich, DE  
2019 Helsinki Institute of Life Science, Helsinki, FI  
2019 John Stuart Mill College, Vrij Universiteit, Amsterdam, NL  
2019 NUS, Singapore, SG  
2019 EMBO YIP, Singapore, SG  
2019 Genome Editing for Comparative Genomics, JEB, Massa Marittima, IT  
2019 GSK, Siena, IT  
2019 Max Planck Institute for Chemical Ecology, Jena, DE  
2019 Hallmarks of Biological Failure, Santa Fe Institute, Santa Fe, US  
2019 Model organisms for the study of aging and disease, Lausanne, CH  
2019 EMBL, Unit of Developmental Biology, Heidelberg, DE  
2019 Quadram Institute, Norwich, UK

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2019 FLI Colloquium, Jena, Leibniz Institute on Aging, DE  
2019 Keynote seminar at the 5<sup>th</sup> Annual ISEMPH meeting, Zurich, CH  
2019 EMBO YIP Evolution Sectorial Meeting, Basel, CH  
2019 PhD Day, IRCAN, Nice, FR  
2019 1<sup>st</sup> European Geroscience Conference, Madrid, ES  
2019 Beyond the Standard: Non-model Vertebrates in Molecular Biomedicine, EMBO Workshop, MDC, Berlin, DE  
2019 Asociación Latinoamericana de Genética, ALAG, Mendoza, AR  
2019 120<sup>th</sup> Intl Titisee Conference “Evolution of Immune Defense Mechanisms” Titisee, DE  
2019 Department of Genetics, University of Bari, IT  
2019 Max Planck for Chemical Ecology, Jena, DE  
2019 Gutenberg Workshop: The Biology of Ageing, Mainz, DE  
2019 CRC 1310 midterm symposium, Cologne, DE  
2019 Microbiota and Aging Symposium, CECAD, University of Cologne, DE  
2019 Gerontological Society of America, Austin, US  
2019 ICMM annual meeting, University of Copenhagen, Helsingør, DK  
2019 BIG Talk, Faculty of Biology and Medicine, University of Lausanne, Lausanne CH  
2020 Microbiota and Aging Symposium, Leibniz Institute, Jena, DE  
2020 Hohenheim University, Stuttgart, DE  
2020 Department of Genetics, University of Cologne, Cologne, DE  
2020 Seminar at PRBB, Barcelona, ES  
2020 Museum Mensch und Natur, Munich, DE  
2020 Keynote seminar, Signalife, Nice, FR  
2020 Intra- and Inter-cellular mechanisms of Aging, Keystone meeting, Vancouver, CA  
2020 ZMBH, University of Heidelberg, Heidelberg, DE  
2020 Brown University Colloquium on the Biology of Human Aging, video conference  
2020 AgingScienceTalks, video seminar  
2020 Institute Gulbenkian de Ciência, video seminar  
2020 7<sup>th</sup> Aging Research & Drug Discovery Meeting (ARDD), video seminar  
2020 Michigan State University Ecology, Evolution and Behavior, video seminar  
2020 University of Muenster, Muenster, DE  
2020 TU Dresden, CMCB program (video)  
2020 Keynote talk, SynAge annual retreat, University of Magdeburg, DE (video)  
2020 Erasmus Medical Center, Rotterdam (video)  
2020 BTI-PGS Virtual distinguished lecture, Cornell University (video)  
2020 2020 Molecular Biology Society of Japan (video)  
2020 eLife Symposium: Aging, Geroscience and Longevity (video)  
2021 MolMet webinar, Karolinska Institute (video)  
2021 Aarhus University, Kjeldgaard Lectures (video)  
2021 Life Science Switzerland (LS2), keynote (video)  
2021 USC L. Davis School of Gerontology, L.A., US (video)  
2021 University of Leicester, UK (video)  
2021 Max Planck Lecture, MPFI, US (video)  
2021 Keynote Speaker, 3rd International Symposium of the RTG1743, DE (video)  
2021 Basic Biology of Aging Spring Speaker Series, UW in Seattle, US (video)  
2021 Seeon Conference – Microbiota, Probiotics and Host, Keynote speaker, DE (video)  
2021 Max Planck Institute for Developmental Biology, Tuebingen, DE  
2021 8<sup>th</sup> Aging Research & Drug Discovery Meeting (ARDD), Copenhagen, DK  
2021 International African Turquoise Killifish Conference, MDI BL, Bar Harbor, US  
2021 EMBO YIN evolution sectorial meeting (online)  
2021 International Congress of Zoology (online)  
2021 EMBO YIN microbiology sectorial meeting, Bordeaux, FR  
2022 IPMM Web-Lecture Molecular Medicine (online)  
2022 “Balance of the Microverse” Cluster of Excellence (online), Jena, DE  
2022 Interdisziplinäres Zentrum für Klinische Forschung (online), Jena, DE  
2022 2nd Euro-Geroscience Conference, Toulouse, FR

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2022 UMC and Hubrecht Institute, Utrecht, NL  
2022 European Institute of Technology, Health Aging advanced course (online)  
2022 Molecular, Cellular and Organismal drivers of aging, CNIO, Madrid, ES  
2022 Developmental Circuits in Aging – EMBO workshop, Crete, GR  
2022 2022 IMB Conference Epigenetics of Ageing – Mainz, DE

#### 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

Cologne Graduate School on Aging, committee member, Cologne, Germany

#### Organization of meetings and symposia

2012 discussion leader, Gordon Research Seminar, Biology of Aging  
2015 moderator, German Association for Aging Research  
2016 organizer, Second Nothobranchius Symposium  
2018 organizer, 2018 Nothobranchius Symposium  
2019 discussion leader, GlaxoSmithKlein “Palio Meeting” on the future of vaccines  
2019 vice-chair, Gordon Research Conference, Biology of Aging  
2021 chair, 2<sup>nd</sup> eLife symposium on Aging, Geroscience and Longevity  
2021 2021 Nothobranchius Symposium  
2021 EMBO/YIN Evolution Sectoral Meeting  
2022 Annual Meeting of the German Society for Aging Research  
2023 chair, Gordon Research Conference, Biology of Aging

#### Serving on editorial board

Aging Cell

eLife

#### Reviewing activities

Scientific journals: Aging Cell; Aging and Mechanisms of Disease; BBA – Molecular Basis of Disease; BMC Genomics; BMC Microbiology; Cell Reports; Current Biology; Developmental Dynamics; Development Genes and Evolution; eLife; Frontiers in Microbiology; Experimental Gerontology; Fishes; G3: Genes, Genome, Genome Biology; Genome Research; Genetics; 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, HSFP, INSPIRE Geroscience, Polish National Science Centre, SWO (Belgium), Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO), Università di Camerino (Italy), 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

- 2017 <http://www.br.de/themen/wissen/altern-alterungsprozess-tierwelt-100.html>  
 “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

## 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.

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- 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