#### **Curriculum Vitae**

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

## Addresses

Leibniz Institute on Aging

Beutenbergstrasse 11 Tel: +49 (3641) 65-6280

07745 Jena, Germany Email: dvalenzano@leibniz-fli.de

Max Planck Institute for Biology of Ageing

Joseph-Stelzmann Str. 9b Email: dvalenzano@age.mpg.de

50931, Cologne, Germany

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)

Tel: +49 (0)221 379 70 490

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 – 2021 CECAD Principal Investigator, CECAD, University of Cologne

Jun 2013 – 2021 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).

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".

| Composition and modulations promoti   |
|---|
|   |
| Associazione Italiana di Primatologia, Rome, IT                               |
| Evolution and Human Behavior meeting, Berlin, GE                              |
| Italian Organization of Science Teachers (ANISN), Viareggio, IT               |
| International Symposium on Neuroplasticity, Pisa, IT                          |
| Aging Symposium: Linking Evolution to Mechanisms, Fribourg, CH                |
| Stanford Current Issues in Genetics, Stanford, CA, US                         |
| Lunch Bunch UC Riverside Seminar Series, Riverside, CA, US                    |
|   |
| Stanford Center on Longevity, Stanford, CA, US                                |
| 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                        |
| 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                   |
| 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 Kllifish Association, WKW, Portland, OR, US                          |
| University of Alabama at Birmingham, NORC, Birmingham, AL, US                 |
| ENDO 2012, Houston, Tx, US  |
| DGIST, Hyeonpung-Myeon, Daegu, SK   |
| Max-Planck Institute for the Biology of Ageing, Cologne, DE                   |
| 1 <sup>st</sup> Nothobranchius Symposium, Pisa, Italy                         |
| Poppelsdorfer Schlossgespräche: University of Bonn, DE                        |
| SFB670 – Cell-autonomous Immunity CECAD, Cologne, DE                          |
| IRB, Barcelona, ES  |
| 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                        |
| DZNE, Munich, DE  |
| 2 <sup>nd</sup> 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 |
| 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   |
|      |  |

| 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 | 1st European Geroscience Conference, Madrid, ES   |
| 2019 | Beyond the Standard: Non-model Vertebrates in Molecular Biomedicine, EMBO                   |
|      | Workshop, MDC, Berlin, DE   |
| 2019 | Associatión 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 | 8th Aging Research & Drug Discovery Meeting (ARDD), Copenhagen, DK                          |
| 2021 | International African Turquoise Killifish Conference, MDI BL, Bar Harbor, US                |
| 2021 | EMBO YIN evolution sectoral meeting (online)  |
| 2021 | International Congress of Zoology (online)  |
| 2021 | EMBO YIN microbiology sectoral 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   |
|      |   |

| 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                   |
| 2022 | ProMoAge: Protein Modification: a Key Mechanism for Ageing, Oberhof, DE |
| 2022 | NIA Genetic Variation and Aging, UW, Seattle, US                        |
| 2022 | INTECOL22, Geneva, CH   |

# 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                      |
| 2022 | chair, Conservation Genomics at the Population Level, Wellcome Genome Campus |
| 2023 | chair, Gordon Research Conference, Biology of Aging                          |
|      |  |

### Serving on editorial board

Aging Cell eLife

## Reviewing activities

Scientific journals: Aging Cell; Aging and Mechanisims 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: Chigago 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   |
| 2010            | http://www.nature.com/nature/journal/v535/n7612/full/535453a.html   |
| 2016            | "Dem Traum der ewigen Jugend auf der Spur" BR Wissen  |
| 2010            |   |
| 0047            | 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  |
| 2017            | http://www.sciencedirect.com/science/article/pii/S0092867417307626  |
| 2017            | "Gut microbes influence life expectancy" Elife  |
| 2017            | · · · · · · · · · · · · · · · · · · ·   |
|                 | https://elifesciences.org/for-the-press/779a3695/gut-microbes-influence-life-   |
| 004=            | 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"  |
| 2013            | https://www.mpg.de/13660866/0702-balt-110438-neutral-evolution-shapes-lifespan-   |
|                 | and-ageing  |
| 2010            |   |
| 2019            | Der Killifisch und die Falten meines Vater  |
| 0040            | 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  |
|                 |   |
| <u>Teaching</u> |   |
| 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   |
| 2010            | 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 Alexader 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  |