Adam Antebi

Personal Data

Title	Prof. Dr.
First name	Adam
Name	Antebi
Current position	Director, Max Planck Institute for Biology of Ageing, permanent
Current institution(s)/site(s), country	Dep. Molecular Genetics of Ageing, Max Planck Institute for Biology of Ageing, Cologne, Germany
ORCID	0000-0002-7241-3029

Qualifications and Career

Stages	Periods and Details
Doctorate	1985–1991, Dr. Gerald Fink, Whitehead Institute of Biomedical Research, Massachusetts Institute of Technology, Cambridge, MA, USA
Bachelor	Biochemistry, 1979–1983, Depts. of Biology and Chemistry, Swarthmore College, Swarthmore, PA, USA

Stages of Academic/Professional Career

Honorary Professor	2010–present, University of Cologne, Germany
Director	2008–present, Max Planck Institute for Biology of Ageing, Cologne, Germany
Associate Professor	2007–2015, Huffington Center on Aging and Dept. of Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX, USA
Assistant Professor	2004–2007, Huffington Center on Aging and Dept. of Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX, USA
Research Group Leader	1997–2004, Otto–Warburg Laboratories, Max Planck Institute for Molecular Genetics, Berlin, Germany
Postdoctoral Fellow	1992–1997, Dr. Edward M. Hedgecock, Johns Hopkins University, Baltimore, MD, USA

Activities in the Research System

Institutional Responsibilities (selected)

2021–2023	Managing Director, Max Planck Institute for Biology of Ageing, Cologne, Germany
2018–2019	Appointment Committee Member, Joint Research Group Leader, Max Planck Institute for Biology of Ageing/University of Cologne, Germany
2016–2022	Chair, Cologne Seminars on Ageing, Joint Seminar Series at the University of Cologne, Germany

2015–2022	Appointment Committee Member, Max Planck Research Group Leader, Free Floater Selection Workshop, Max Planck Institute for Biology of Ageing, Cologne, Germany
2014–2022	Organizer/Lecturer, Biology of Aging and Age-Related Disease Course, University of Cologne, Germany
2013–2022	Co-Director, Cologne Graduate School of Ageing Research (CGA), CECAD/MPI AGE, Cologne, Germany
2011–2017	Coordinator Sub-project II, SyBACol (BMBF) „Systems Biology of Ageing Cologne“, University of Cologne, Germany
2011	Appointment Committee Member, Professorship in Systems Biology of Aging, University of Cologne, Germany
2010–present	Appointment Committee Member, Max Planck Research Group Leader, Max Planck Institute for Biology of Ageing, Cologne, Germany
2010–2022	Director, International Max Planck Research School (IMPRS), PhD Program, Cologne, Germany
2010–2012	Managing Director, Max Planck Institute for Biology of Ageing, Cologne, Germany

Service to the Scientific Community (selected)

2021–present	SAB Member, “Post-lysosome: Understanding of higher-order biological processes initiated by the site of degradation”, Japan
2020–present	SAB Member, Institute for Research on Productive Aging, Tokyo, Japan
2020	Standing Committee Member, Director Recruitment, Max Planck Institute for Molecular Biomedicine, Münster, Germany
2019	Standing Committee Member, Director Recruitment, Max Planck Institute for Immunobiology and Epigenetics, Freiburg, Germany
2019	Reviewer and Interview Board Member, Wellcome Trust, London, UK
2018	Co-Organizer, Nothobranchius Symposium, Cologne, Germany
2017	Co-Organizer, Gordon Research Conference, Biology of Aging, Les Diablerets, Switzerland
2017	Co-Organizer, Cold Spring Harbor Asia Meeting, Stem Cells, Aging & Rejuvenation, Suzhou, China
2016	Co-Organizer, 2nd Cologne Ageing Meeting, Cologne, Germany 2015–
2019	Advisory Board Member, BIO-NRW, facilitating biotech start-ups in North Rhine-Westphalia, Düsseldorf, Germany
2015	Co-Organizer, Cold Spring Harbor Asia Meeting, Molecular Basis of Aging and Disease, Suzhou, China
2015	Vice Chair, Gordon Research Conference, Biology of Aging, Newry, ME, USA
2013	Co-Organizer, Cold Spring Harbor Asia Meeting, Molecular Basis of Aging and Disease, Suzhou, China
2006–2022	Co-Editor-in-Chief, Aging Cell
2005–2007	Organizing Committee Member, International Worm Meeting, Los Angeles, CA, USA

Scientific Results

Category A

Debès, C.*, Papadakis, A.*, Grönke, S.*, Karalay, Ö.*, Tain, L.S., Mizi, A., Nakamura, S., Hahn, O., Weigelt, C., Josipovic, N., Zirkel, A., Brusius, I., Sofiadis, K., Lamprousi, M., Lu, Y.X., Huang, W.M., Esmaillie, R., Kubacki, T., Späth, M.R., Schermer, B., Benzing, T., Müller, R.U., **Antebi, A.**[#], Partridge, L.[#], Papantonis, A.[#], and Beyer, A.[#] (2023). Ageing-associated changes in transcriptional elongation influence longevity. **Nature** *616*:814–821. doi: 10. 1038/s41586-023-05922-y. (open access)

Ripa, R., Ballhysa, E., Steiner, J.D., Laboy, R., Annibal, A., Hochhard, N., Latza, C., Dolfi, L., Calabrese, C., Meyer, A.M., Polidori, M.C., Müller, R.U., and **Antebi, A.** (2023). Refeeding-associated AMPKγ1 complex activity is a hallmark of health and longevity. **Nat Aging** *3*:1544–1560. doi: 10.1038/s43587-023-00521-y. (open access)

Huang, W.M.*, Kew, C.*, Fernandes, S.D., Lohrke, A., Han, L., Demetriades, C., and **Antebi, A.** (2022). Decreased spliceosome fidelity and *egl-8* intron retention inhibit mTORC1 signaling to promote longevity. **Nat Aging** *2*:796–808. doi: 10.1038/s43587-022-00275-z. (open access)

Annibal, A., Tharyan, R.G., Schonewolff, M.F., Tam, H., Latza, C., Auler, M.M.K., Grönke S., Partridge L., and **Antebi, A.** (2021). Regulation of the one carbon folate cycle as a shared metabolic signature of longevity. **Nat Commun** *12*:3486. doi: 10.1038/s41467-021-23856-9. (open access)

Gerisch, B., Tharyan, R.G., Mak, J., Denzel, S.I., Popkes-van Oepen, T., Henn, N., and **Antebi, A.** (2020). HLH-30/TFEB Is a master regulator of reproductive quiescence. **Dev Cell** *53*:316–329. doi: 10.1016/j.devcel.2020.03.014. (open access)

Tharyan, R.G., Annibal, A., Schiffer, I., Laboy, R., Atanassov, I., Weber, A.L., Gerisch, B., and **Antebi, A.** (2020). NFYB-1 regulates mitochondrial function and longevity via lysosomal prosaposin. **Nat Metab** *2*:387–396. doi: 10.1038/s42255-020-0200-2. (open access)

Tiku, V., Jain, C., Raz, Y., Nakamura, S., Heestand, B., Liu, W., Späth, M., Suchiman, H.E.D., Müller, R.U., Slagboom, P.E., Partridge, L., and **Antebi, A.** (2017). Small nucleoli are a cellular hallmark of longevity. **Nat Commun** *8*:16083. doi: 10.1038/ncomms16083. (open access)

Denzel, M.S.*, Storm, N.J.*, Gutschmidt, A., Baddi, R., Hinze, Y., Jarosch, E., Sommer, T., Hoppe, T., and **Antebi, A.** (2014). Hexosamine pathway metabolites enhance protein quality control and prolong life. **Cell** *156*:1167–1178. doi: 10.1016/j.cell.2014.01.061. (open access)

Shen, Y., Wollam, J., Magner, D., Karalay, O., and **Antebi, A.** (2012). A steroid receptor-microRNA switch regulates life span in response to signals from the gonad. **Science** *338*:1472–1476. doi: 10.1126/science.1228967.

Gerisch, B., Weitzel, C., Kober-Eisermann, C., Rottiers, V., and **Antebi, A.** (2001). A hormonal signaling pathway influencing C. elegans metabolism, reproductive development, and life span. **Dev Cell** *1*:841–85. doi: 10.1016/s1534-5807(01)00085-5. (open access)

** shared first authorship, [#] shared corresponding authorship*

Category B

Preprints, Reviews, and Commentaries (Non-peer-reviewed, selected)

Laboy, R., Ndoci, M., Vonolfen, M., Ballhysa, E., Atanassov, I., and **Antebi, A.** (2023) Hexokinase regulates Mondo-mediated longevity via the PPP and organellar dynamics. **bioRxiv.** doi: 10.1101/2023.06.14.544948.

Nonninger, T.J., Mak, J., Gerisch, B., Ramponi, V., Kawamura, K., Schilling, K., Latza, C., Koelschbach, J., Ripa, R., Serrano, M. and **Antebi, A.** (2023).Aprimordial TFEB-TGFß signaling axis systemically regulates diapause and stem cell longevity. **bioRxiv.** doi: 10.1101/2023.10.06.561181.

Bakula, D., Ablasser, A., Aguzzi, A., **Antebi, A.**, Barzilai, N., Bittner, M.I., Jensen, M.B., Calkhoven, C.F., Chen, D., Grey, A.D.N.J., Feige, J.N., Georgievskaya, A., Gladyshev, V.N., Golato, T., Gudkov, A.V., Hoppe, T., Kaeberlein, M., Katajisto, P., Kennedy, B.K., Lal, U., Martin-Villalba, A., Moskalev, A.A., Ozerov, I., Petr, M.A., Reason, Rubinsztein, D.C., Tyshkovskiy, A., Vanhaelen, Q., Zhavoronkov, A., and Scheibye-Knudsen, M. (2019). Latest advances in aging research and drug discovery. **Aging** *11*:9971–9981. doi: 10.18632/aging.102487. (open access)

Patents

Inventors:	**Antebi, A.,** Tiku, V., and Slagboom, P.E. (MPI AGE)
No.:	US 11,573,231 (2023)
Title:	Biomarker of ageing

Public Outreach Activities (selected)

2023	Deutschland Radio, Interview on fasting/feeding
2023	Deutsche Welle Podcast Series “Science Unscripted”: “How fasting fish could help scientists make us live longer”
2023	Der Spiegel, “Feature on Aging”
2023	Greg MacPherson Podcast: “Fasting/feeding and aging”
2017–present	AGE-ART, Bringing Lay Science and the Arts Together, Cologne, Germany

Academic Distinctions

2023	Longevity Impetus Grant
2023	Elected Member, Academy for Health & Lifespan Research
2021	Bennett J. Cohen Research in Aging Award
2019	ERC Advanced Grant
2016	Elected Member, European Molecular Biology Organization (EMBO)
2016	Allianz/Association de Prevoyance Sante Longevity Research Award, France
2009	Runnstrom Lecture, Wenner-Gren Institute, University of Stockholm, Sweden
2007–2012	Ellison Medical Foundation Senior Scholar in Aging, Bethesda, MD, USA
2007	Debakey Excellence in Research Award, Baylor College of Medicine, TX, USA
2005	Breakthroughs in Gerontology Award, Glenn Foundation for Medical Research, Santa Barbara, CA, USA
1995–1997	National Institutes of Health Postdoctoral Training Grant, USA
1992–1995	Damon-Runyon-Walter-Winchell Cancer Research Fund, Postdoctoral Fellowship, USA