

Curriculum Vitae

Prof. Dr. Aurelio Teleman (*1976)

Head of Division
Signal Transduction in Cancer and Metabolism (B140)
German Cancer Research Center (DKFZ)

Professor
Medical Faculty
Heidelberg University

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The Teleman Lab studies how tissues and cells control their growth, and the relevance of these regulatory mechanisms to normal development and cancer.

Selected Publications

* co-first/corresponding

1. Willnow P and **Teleman AA**. Nuclear position and local acetyl-CoA production regulate chromatin state. (2024) *Nature* 630:466-474. doi: 10.1038/s41586-024-07471-4
2. Ahmed SMH, Maldera JA, Kronic D, Paiva-Silva GO, Pénalva C, **Teleman AA*** and Edgar BA*. Fitness trade-offs incurred by ovary-to-gut steroid signaling in *Drosophila*. (2020) *Nature* 584:415-419. doi: 10.1038/s41586-020-2462-y.
3. Senyilmaz D, Virtue S, Xu X, Tan CY, Griffin JL, Miller AK, Vidal-Puig A and **Teleman AA**. Regulation of mitochondrial morphology and function by Stearoylation of TfR1. (2015) *Nature* 525:124-8
4. Schleich S, Strassburger K, Janiesch PC, Koledachkina T, Miller KK, Haneke K, Cheng Y-C, Kuechler K, Stoecklin G, Duncan KE and **Teleman AA**. DENR•MCT-1 Promotes Translation Reinitiation Downstream of uORFs to Control Tissue Growth. (2014) *Nature* 512: 208-212
5. Demetriades C, Doumpas N and **Teleman AA**. Regulation of TORC1 in response to amino acid starvation via lysosomal recruitment of TSC2. (2014) *Cell* 156:786-99
6. **Teleman AA**, Cohen SM. Dpp gradient formation in the *Drosophila* wing imaginal disc. (2000) *Cell* 103:971-80.
7. Webb CD*, **Teleman A***, Gordon S, Straight A, Belmont A, Lin DC, Grossman AD, Wright A, Losick R. Bipolar localization of the replication origin regions of chromosomes in vegetative and sporulating cells of *B. subtilis*. (1997) *Cell* 88:667-74

Education & Work Experience

2024-now Adjunct Professor, Faculty of Biosciences, Heidelberg University
2023-now Speaker of the Research Program "Structural & Functional Genomics", DKFZ
2016-now Full Professor (W3), Medical Faculty, Heidelberg University
2012-now Head of Division "Signal Transduction in Cancer and Metabolism", DKFZ
2007-2012 Head of Junior Group "Signal Transduction in Cancer and Metabolism", DKFZ
2006-2007 Staff Scientist, European Molecular Biology Laboratory (EMBL), Germany
2002-2006 Postdoctoral Fellow, European Molecular Biology Laboratory (EMBL), Germany
2001-2002 Business Analyst, McKinsey & Co., New York, NY, USA
• Management strategy consulting in the pharmaceutical and biotech industries

- 1998-2001 Ph.D. studies, European Molecular Biology Laboratory (EMBL), Germany and Imperial College London, UK
- Ph.D. granted Feb 29, 2004
- 1994-1998 University studies, Harvard University • Boston, MA USA
- A.B. degree Summa Cum Laude in Biochemistry, June 1998.
 - Grade Point Average 3.92/4.00.
- 1990-1994 Ward Melville High School • Setauket, NY, USA
- Valedictorian of the Class of 1994 (top grade point average)
 - Member of the 1994 United States Olympic Physics Team

Honors & awards

- 1994 Valedictorian of the Class of 1994, Ward Melville High School, NY USA
- 1994 Member of the 1994 USA Olympic Physics Team
- 1994 Westinghouse Science Talent Search semi-finalist nation-wide
- 1994 International Science and Engineering Fair winner (2nd place in USA)
- 1994 Selected participant of 1994 Research Science Institute (RSI) at MIT, USA
- 1997 Phi Beta Kappa Honor Society Junior 24, Harvard University, USA
- 1998 Goldwater scholarship
- 1998 Thomas Hoopes Prize for outstanding senior thesis, Harvard University, USA
- 1998 Henderson Prize for best Biochemistry thesis, Harvard University, USA
- 1998-2001 Howard Hughes Medical Institute (HHMI) Predoctoral Fellowship (1 of 88 granted worldwide)
- 1998 Beinecke Scholarship
- 2007 Helmholtz Young Investigator Award
- 2010 European Research Council (ERC) Starting Grant
- 2010 EMBO Young Investigator Award
- 2013 Walther-Flemming-Medal (German Society of Cell Biology)
- 2014 One of the “40 under 40” scientists selected worldwide by Cell for their anniversary feature
- 2016 Johann-Georg-Zimmermann Prize
- 2016 European Research Council (ERC) Consolidator Grant
- 2020 EMBO Member

Research fields

Regulation of tissue growth & metabolism; Insulin and mTORC1 signaling; Drosophila development

Professional Experience & Scientific Duties

- Member of the DFG Fachkollegiums 2.11 „Grundlagen der Biologie und Medizin“ (2024-)
- Vice-chair of the Scientific Council of the German Cancer Research Center (DKFZ) (2023-present)
- Speaker for the Research Program “Functional and Structural Genomics” of the German Cancer Research Center (2023-present)
- Editor PLoS Genetics (2018-2019), Editorial Board FEBS Letters (2023-), Editorial Board Member/Advisor BMC Biology (2015-). Advisory Board Member FEBS Letters (2019-2022).
- Reviewer for Cell, Nature, Science, Aging Cell, Developmental Cell, Cell Metabolism, Current Biology, Cell Reports, Nature Cell Biology, Nature Communications, EMBO

Journal, Molecular Systems Biology, PNAS, PLoS Biology, PLoS Genetics, Development, Cancer Letters, Genes & Development, Experimental and Clinical Endocrinology & Diabetes, International J. Cancer, BMC Biology, etc.

- Grant reviewing: EMBO, Deutsche Forschungsgemeinschaft, Max Planck Society, Wellcome Trust, BMRC Singapore, Swiss National Science Foundation, U.S.A. National Science Foundation, Greek Ministry of Education, French ANR
- Committee member of DKFZ PhD program ("Helmholtz International Graduate School for Cancer Research"), DKFZ Distinguished Lecturer seminar series, and DKFZ-Bayer Alliance
- DKFZ Speaker for the "Cardiovascular and Metabolic Disease" Program (2014-2020)
- Vorstandsmitglied SFB "Bedeutung reaktiver Metabolite und posttranslationaler Proteinmodifikationen für Diabetes-bedingte zelluläre Dysfunktion und ihre Folgen"
- Member of Faculty of 1000 Biology
- Co-organizer of 2015 European Drosophila Research Conference
- Co-organizer of the EMBO Crete "Fly meeting" (2018-2024)

Grants (Past & Present)

- Coordinator (together with Stephan Herzig, Helmholtz Center Munich) of the Helmholtz Future Topic "Aging and Metabolic Programming" • 2017-2020 • 6 million euro
- ERC Consolidator Grant "Regulation of Cellular Growth and Metabolism by C18:0" • 2017-2021 • European Research Council (ERC) • 2.0 million euro
- SFB "Bedeutung reaktiver Metabolite und posttranslationaler Proteinmodifikationen für Diabetes-bedingte zelluläre Dysfunktion und ihre Folgen" • 2014-2017 • Deutsche Forschungsgemeinschaft • 1 PhD student
- ERC Starting Grant "Amino acid sensing by TOR" • 2010-2015 • European Research Council (ERC) • 1.5 million euro
- "EMBO Young Investigator Program Award" • 2011-2013 • European Molecular Biology Organization (EMBO) • 45,000 euro
- "In vivo functional analysis of dDRP" • 2010-2013 • Deutsche Forschungsgemeinschaft • 164,000 euro
- "Functional analysis of PPP2R5C as a readout of insulin signaling and metabolism" • 2010-2013 • Fritz Thyssen Stiftung • 130,000 euro
- "Role of sleep in methylglyoxal detoxification and diabetes" • 2010-2012 • Deutsche Forschungsgemeinschaft • 178,000 euro
- "Functional analysis of PRAS40 as a regulator of tissue growth" • 2009-2012 • Deutsche Krebshilfe • 230,000 euro
- "MITIN: Integration of the system models of mitochondrial function and insulin signaling, and its application in the study of complex disease" • 2008-2011 • EU FP7 Collaborative Project • 318,000 euro
- "Insulin Signaling in Drosophila melanogaster" • 2007-2012 • Helmholtz Young Investigator Award • 400,000 euro

Teaching

- Practical course "Methoden der molekularen Zellbiologie" • Faculty of Biology, Uni. Heidelberg • 1 SWS • 2008-2012
- Seminar course "Fluorescence Microscopy and Signaling" • Masters in Molecular and Cellular Biology, Uni. Heidelberg • 1 SWS • 2010-2013

- Tutorial on “Cancer and Metabolism” • Masters in Cancer Biology, Uni. Heidelberg • 2009-present
- Lectures for the Masters programs in Cancer Biology, Molecular and Cellular Biology, Biochemistry, and Developmental and Stem Cell Biology (2007-present)
- ~40 Lab Rotations for Masters programs in Molecular and Cellular Biology, Cancer Biology, and Developmental Biology, Uni. Heidelberg (2007 – present)
- 29 Masters students performed Masters Thesis in the lab since 2007
- 10 students completed their PhD in the lab since 2007
- on PhD Thesis Advisory Committee for 90 students since 2007
- on PhD Defense Committee for 39 students since 2007, for Uni. Heidelberg, Uni Fribourg, (CH), ETH Zürich (CH), University College London (UK)

List of Publications

ResearcherID: E-6864-2013

ORCID: 0000-0002-4237-9368

Google Scholar Profile: A Teleman

Average Citations per Article: 100 (as of March 2025)

h-index: 51 (as of March 2025)

1. Wang R, Roiuk M, Storer F, **Teleman AA** and Amoyel M. Signals from the niche promote distinct modes of translation initiation to control stem cell differentiation and renewal in the *Drosophila* testis. (2025) *PLoS Biol* 23(3):e3003049. doi: 10.1371/journal.pbio.3003049
2. Roiuk M, Neff M and **Teleman AA**. Human eIF2A has a minimal role in translation initiation and in uORF-mediated translational control in HeLa cells. (2025) *eLIFE* [IN PRESS]
3. Marker T, Steimbach RR, Perez-Borrajero C, Luzarowski M, Hartmann E, Schleich S, Pastor-Flores D, Espinet E, Trumpf A, Teleman AA, Gräter F, Simon B, Miller AK, Dick TP. Site-specific activation of the proton pump inhibitor rabeprazole by tetrathiolate zinc centers. (2025) *Nature Chemistry* 17(4):507-517. doi: 10.1038/s41557-025-01745-8
4. Meurs R, De Matos M, Bothe A, Guex N, Weber T, **Teleman AA**, Ban N, and Gatfield D. MCTS2 and distinct eIF2D roles in uORF-dependent translation regulation revealed by in vitro re-initiation assays (2025) *EMBO J*. doi: 10.1038/s44318-024-00347-3
5. Camilleri-Robles C, Amador R, Tiebe M, **Teleman AA**, Serras F, Guigó R, Corominas M. Long non-coding RNAs involved in *Drosophila* development and regeneration. (2024) *NAR Genom Bioinform* 6:lqae091 doi: 10.1093/nargab/lqae091
6. Roiuk M, Neff M and **Teleman AA**. eIF4E-independent translation is largely eIF3d-dependent. (2024) *Nature Communications* 15:6692. doi: 10.1038/s41467-024-51027-z
7. Kyrkou A, Valla R, Zhang Y, Ambrosi G, Laier S, Müller-Decker K, Boutros M and **Teleman AA**. G6PD and ACSL3 are synthetic lethal partners of NF2 in Schwann cells. (2024) *Nature Communications* 5:5115. doi: 10.1038/s41467-024-49298-7
8. Willnow P and **Teleman AA**. Nuclear position and local acetyl-CoA production regulate chromatin state. (2024) *Nature* 630:466-474. doi: 10.1038/s41586-024-07471-4
9. Bohlen J, Zhou Q, Philippot Q, Ogishi M, Rinchai D, Nieminen T, Seyedpour S, Parvaneh N, Rezaei N, Yazdanpanah N, Momenilandi M, Conil C, Neehus AL, Schmidt C, Arango-Franco CA, Voyer TL, Khan T, Yang R, Puchan J, Erazo L, Roiuk M, Vatovec T, Janda Z, Bagarić I, Materna M, Gervais A, Li H, Rosain J, Peel JN, Seeleuthner Y, Han JE, L'Honneur AS, Moncada-Vélez M, Martín-Fernández M, Horesh ME, Kochetkov T, Schmidt M, AlShehri MA, Salo E, Saxen H, ElGhazali G, Yatim A, Soudée C, Sallusto F, Ensser A, Marr N, Zhang P, Bogunovic D, Cobat A, Shahrooei M, Béziat V, Abel L, Wang X, Boisson-Dupuis S, **Teleman AA**, Bustamante J, Zhang Q, Casanova JL. Human MCTS1-

- dependent translation of JAK2 is essential for IFN- γ immunity to mycobacteria. (2023) Cell Oct 18:S0092-8674(23)01078-4. doi: 10.1016/j.cell.2023.09.024
10. Nůsková H, Garcia Cortizo F, Schwenker L, Sachsenheimer T, Diakonov E, Tiebe M, Schneider M, Lohbeck J, Reid C, Kopp-Schneider A, Helm D, Brügger B, Miller A, and **Teleman AA**. Competition for cysteine acylation by C16:0 and C18:0 derived lipids is a global phenomenon in the proteome. (2023) JBC Jul 24:105088. doi: 10.1016/j.jbc.2023.105088
 11. Nicastro R, Brohée L, Alba J, Nüchel J, Figlia G, Kipschull S, Gollwitzer P, Romero-Pozuelo J, Fernandes SA, Lamprakis A, Vanni S*, **Teleman AA***, De Virgilio C*, and Demetriades C*. Malonyl-CoA is a conserved endogenous ATP-competitive mTORC1 inhibitor. (2023) Nature Cell Biology. Aug 10. doi: 10.1038/s41556-023-01198-6 (*co-corresponding)
 12. Pfaff D, Poschet G, Hell R, Szendrödi J, and **Teleman AA**. Walking 200 minutes per day keeps the bariatric surgeon away. (2023) Heliyon. 9:e16556. doi: 10.1016/j.heliyon.2023.e16556
 13. Samarin J, Fabrowski P, Kurilov R, Nuskova H, Hummel-Eisenbeiss J, Pink H, Li N, Weru V, Alborzinia H, Yildiz U, Grob L, Taubert M, Czech M, Morgen M, Brandstädter C, Becker K, Mao L, Jayavelu AK, Goncalves A, Uhrig U, Seiler J, Lyu Y, Diederichs S, Klingmüller U, Muckenthaler M, Kopp-Schneider A, **Teleman A**, Miller AK, Gunkel N. Low level of antioxidant capacity biomarkers but not target overexpression predicts vulnerability to ROS-inducing drugs. (2023) Redox Biology. Jun;62:102639. doi: 10.1016/j.redox.2023.102639
 14. Bohlen J, Roiuk M, Neff M, and **Teleman AA**. PRRC2 proteins impact translation initiation by promoting leaky scanning. (2023) Nucleic Acids Research. Mar 3:gkad135. doi: 10.1093/nar/gkad135
 15. Ibañez DC, Skabkin M, Hooli J, Cerrizuela S, Göpferich M, Jolly A, Volk K, Zumwinkel M, Bertolini M, Figlia G, Höfer T, Kramer G, Anders S, **Teleman AA**, Marciniak-Czochra A, and Martin-Villalba A. Interferon regulates neural stem cell function at all ages by orchestrating mTOR and cell cycle. (2023) EMBO Molecular Medicine. Jan 13:e16434. doi: 10.15252/emmm.202216434
 16. Marinovic I, Bartosova M, Herzog R, Sacnun JM, Zhang C, Hoogenboom R, Unterwurzacher M, Hackert T, **Teleman AA**, Kratochwill K and Schmitt CP. Understanding cell model characteristics - RNA expression profiling in primary and immortalized human mesothelial cells, and in human vein and microvascular endothelial cells. (2022) Cells. Oct 5;11(19):3133. doi: 10.3390/cells11193133
 17. Figlia G, Müller S, Hagenston AM, Kleber S, Roiuk M, Quast JP, Ten Bosch N, Carvajal Ibañez D, Mauceri D, Martin-Villalba A, and **Teleman AA**. Brain-enriched RagB isoforms regulate the dynamics of mTORC1 activity through GATOR1 inhibition. (2022) Nature Cell Biology. doi: 10.1038/s41556-022-00977-x
 18. Wagner S, Bohlen J, Herrmannova A, Jelinek J, Preiss T, Valasek LS and **Teleman AA**. Selective footprinting of 40S and 80S ribosome subpopulations (Sel-TCP-seq) to study translation and its control. (2022) Nature Protocols. doi: 10.1038/s41596-022-00708-4
 19. Gegner HM, Mechtel N, Heidenreich E, Wirth A, Garcia Cortizo F, Bennewitz K, Fleming TH, Andresen C, Freichel M, **Teleman AA**, Kroll J, Hell R, Poschet G. Deep metabolic profiling assessment of tissue extraction protocols for three model organisms. (2022) Frontiers in Chemistry. 10:869732. doi: 10.3389/fchem.2022.869732
 20. Clemm von Hohenberg K, Müller S, Schleich S, Meister M, Bohlen J, Hofmann TG and **Teleman AA**. Cyclin B/CDK1 and Cyclin A/CDK2 phosphorylate DENR to promote mitotic protein translation and faithful cell division. (2022) Nature Communications. 13:668. doi: 10.1038/s41467-022-28265-0

21. Heremans IP, Cligiore F, Gerin I, Bury M, Lutz M, Graff J, Stroobant V, Vertommen D, **Teleman A**, Van Schaftingen E and Bommer GT. Parkinson's disease protein PARK7 prevents metabolite and protein damage caused by a glycolytic metabolite. (2021) PNAS. 119:e2111338119. doi: 10.1073/pnas.2111338119
22. Garcia Cortizo F, Pfaff D, Wirth A, Schlotterer A, Medert R, Morgenstern J, Weber T, Hammes H-P, Fleming T, Nawroth PP and **Teleman AA**. Activity of Glyoxylase 1 is regulated by a glucose-responsive phosphorylation on Tyr136. (2021) Molecular Metabolism. Nov 24:101406. doi: 10.1016/j.molmet.2021.101406
23. Bohlen J, Roiuk M and **Teleman AA**. Phosphorylation of Ribosomal Protein S6 differentially affects mRNA translation based on ORF length. (2021) Nucleic Acids Research. 49:13062-13074. doi: 10.1093/nar/gkab1157
24. Strassburger K, Lutz M, Müller S and **Teleman AA**. Ecdysone regulates Drosophila wing disc size via a TORC1 dependent mechanism. (2021) Nature Communications. 12(1):6684. doi: 10.1038/s41467-021-26780-0
25. Cable J, et al. Metabolic decisions in development and disease—a Keystone Symposia report. (2021) Annals NY Accademy of Sciences. DOI: 10.1111/nyas.14678
26. Nůsková H, Serebryakova MV, Ferrer-Caelles A, Sachsenheimer T, Luchtenborg C, Miller AK, Brügger B, Kordyukova LV and **Teleman AA**. Stearic acid blunts growth-factor signaling via oleoylation of GNAI proteins. (2021) Nature Communications. 12:4590. doi: 10.1038/s41467-021-24844-9
27. Prentzell MT, Rehbein U, Sandoval MC, Meulemeester AD, Baumeister R, Brohée L, Berdel B, Bockwoldt M, Carroll B, Chowdhury SR, von Deimling A, Demetriades C, Figlia G, Genomics England Research Consortium16, Guimaraes de Araujo ME, Heberle AM, Heiland I, Holzwarth B, Huber LA, Jaworski J, Kedra M, Kern K, Kopach K, Korolchuk VI, van 't Land-Kuper I, Macias M, Nellist M, Palm W, Pusch S, Ramos Pittol JM, Reil M, Reintjes A, Reuter F, Sampson JR, Scheldeman C, Siekierska A, Stefan E, **Teleman AA**, Thomas LE, Torres-Quesada O, Trump S, West HD, de Witte P, Woltering S, Yordanov T, Zmorzynska J, Opitz CA, and Thedieck K. G3BPs tether the TSC complex to lysosomes and suppress mTORC1 signaling. (2021) Cell. 184:655-674.e27 doi: 10.1016/j.cell.2020.12.024
28. Bohlen J, Harbrecht L, Blanco S, Clemm von Hohenberg K, Fenzl K, Kramer G, Bukau B and **Teleman AA**. DENR promotes translation reinitiation via ribosome recycling to drive expression of oncogenes including ATF4. (2020) Nature Communications 11:4676. doi: 10.1038/s41467-020-18452-2
29. Morgenstern J, Katz S, J Krebs, Chen J, Saadatmand A, Cortiz-Garcia F, Moraru A, Zemva J, Campos Campos M, **Teleman AA**, Backs J, Nawroth P, and Fleming T. Phosphorylation of T107 by CamKII δ Regulates the Detoxification Efficiency and Proteomic Integrity of Glyoxalase 1. (2020) Cell Reports. 32:108160. doi: 10.1016/j.celrep.2020.108160
30. Figlia G, Willnow P and **Teleman AA**. Metabolites regulate cell signaling and growth by decorating the surface of proteins. (2020) Developmental Cell (invited Review) 54:156-170. doi: 10.1016/j.devcel.2020.06.036
31. Bohlen J, Fenzl K, Kramer G, Bukau B and **Teleman AA**. Selective 40S footprinting reveals cap-tethered ribosome scanning in human cells. (2020) Molecular Cell 79:561-574.e5. doi: 10.1016/j.molcel.2020.06.005
32. Romero-Pozuelo J, Figlia G, Kaya O, Martin-Villalba A and **Teleman AA**. Cdk4 and Cdk6 couple the cell cycle machinery to cell growth via mTORC1. (2020) Cell Reports 31:107504. doi: 10.1016/j.celrep.2020.03.068
33. Tiebe M, Lutz M, Senyilmaz Tiebe D and **Teleman AA**. Creb12 regulates cell metabolism in muscle and liver cells. (2020) Scientific Reports 9(1):19869. doi: 10.1038/s41598-019-56407-w

34. Ahmed SMH, Maldera JA, Krunic D, Paiva-Silva GO, Pénalva C, **Teleman AA*** (co-corresponding) and Edgar BA*. Fitness trade-offs incurred by ovary-to-gut steroid signaling in *Drosophila*. (2020) Nature 584:415-419. doi: 10.1038/s41586-020-2462-y.
35. Ma X, Lu J, Moraru A, **Teleman AA**, Xu T, Fang J, Qiu Y and Liu P. A Novel Regulator of ER Ca²⁺ Drives Hippo-mediated Tumorigenesis. (2020) Oncogene 39:1378-1387 doi: 10.1038/s41388-019-1076-z
36. Patel P, Pénalva C, Kardorff M, Roca M, Pavlović B, Thiel A, **Teleman AA** and Edgar B. Damage sensing by a Nox-Ask1-MKK3-p38 signaling pathway mediates regeneration in the adult *Drosophila* midgut. (2019) Nature Communications 10:4365. doi: 10.1038/s41467-019-12336-w
37. Bageritz J, Willnow P, Valentini E, Leible S, Boutros M and **Teleman AA**. Gene expression atlas of a developing tissue by single cell expression correlation analysis. (2019) Nature Methods 16:750-756. doi: 10.1038/s41592-019-0492-x
38. Dong Y, **Teleman AA**, Jedmowski C, Wirtz M, Hell R. The Arabidopsis THADA homologue modulates TOR activity and cold acclimation. (2019) Plant Biol: 21 Suppl 1, 77-83.
39. Strassburger K, Kang E, and **Teleman AA**. *Drosophila* ZDHHC8 palmitoylates scribble and Ras64B and controls growth and viability. (2019) PLoS One 14(2):e0198149. doi: 10.1371/journal.pone.0198149
40. Kwiatkowski S, Seliga AK, Vertommen D, Terreri M, Ishikawa T, Grabowska I, Tiebe M, **Teleman AA**, Jagielski AK, Veiga-da-Cunha M and Drozak J. SETD3 protein is the actin-specific histidine N-methyltransferase. (2018) eLife 2018 7:e37921 doi: 10.7554/eLife.37921
41. Sriram A, Bohlen J and **Teleman AA**. Translation acrobatics: how cancer cells exploit alternate modes of translational initiation. (2018) EMBO Reports doi: 10.15252/embr.201845947.
42. Tiebe M, Lutz M, Levy D, and **Teleman AA**. Phenotypic characterization of SETD3 knockout *Drosophila*. (2018) PLoS One 13(8):e0201609. 10.1371/journal.pone.0201609
43. Senyilmaz-Tiebe D, Pfaff DH, Virtue S, Schwarz KV, Fleming T, Altamura S, Muckenthaler MU, Okun JG, Vidal-Puig A, Nawroth P and **Teleman AA**. Dietary stearic acid regulates mitochondria *in vivo* in humans. (2018) Nature Communications 9:3129 doi: 10.1038/s41467-018-05614-6.
44. Sellin J, Wingen C, Gosejacob D, Senyilmaz D, Hänschke L, Büttner S, Meyer K, Bano D, Nicotera P, **Teleman AA** and Bülow MH. Dietary rescue of lipotoxicity-induced mitochondrial damage in Peroxin19 mutants. (2018) PLoS Biology 16(6):e2004893. doi: 10.1371/journal.pbio.2004893
45. Strassburger K and **Teleman AA**. Flies eat their veggies to survive the cold. (2018) Developmental Cell. 46:671-672. doi: 10.1016/j.devcel.2018.05.030
46. Ahmed YL, Schleich S, Bohlen J, Mandel N, Simon B, Sinning I and **Teleman AA**. DENR•MCTS1 heterodimerization and tRNA recruitment are required for translation reinitiation. (2018) PLoS Biology 16(6):e2005160. doi: 10.1371/journal.pbio.2005160
47. Moraru A, Wiederstein J, Pfaff D, Fleming T, Miller AK, Nawroth P and **Teleman AA**. Elevated levels of the reactive metabolite methylglyoxal recapitulate progression of Type 2 Diabetes. (2018) Cell Metabolism 27:926-934 doi: 10.1016/j.cmet.2018.02.003
48. Acevedo JM, Hoermann B, Schlimbach T and **Teleman AA**. Changes in global translation elongation or initiation rates shape the proteome via the Kozak sequence. (2018) Scientific Reports 8:4018. doi: 10.1038/s41598-018-22330-9



49. Bülow MH, Wingen C, Senyilmaz D, Gosejacob D, Sociale M, Bauer R, Schulze H, Sandhoff K, **Teleman AA**, Hoch M and Sellin J. Unbalanced lipolysis results in lipotoxicity and mitochondrial damage in peroxisome-deficient Pex19 mutants. (2018) Molecular Biology of the Cell 29:396-407. doi: 10.1091/mbc.E17-08-0535.
50. Zemva J, Pfaff D, Groener JB, Fleming T, Herzig S, **Teleman A**, Nawroth PP and Tyedmers J. Effects of the reactive metabolite Methylglyoxal on cellular signalling, Insulin action and metabolism – what we know in mammals and what we can learn from yeast. (2018) Experimental and Clinical Endocrinology & Diabetes Feb 8. doi: 10.1055/s-0043-122382
51. Dong Y, Silbermann M, Speiser A, Forieri I, Linster E, Poschet G, Allboje A, Watanabe M, Sticht C, **Teleman AA**, Deragon J-M, Saito K, Hell R, and Wirtz M. Sulfur availability regulates plant growth via glucose-TOR signaling. (2017) Nature Communications 8:1174 doi: 10.1038/s41467-017-01224-w
52. Dräger N, Nachman E, Winterhoff M, Brühmann S, Shah P, Katsinelos T, Boulant S, **Teleman AA**, Faix J, and Jahn T. Bin1 directly remodels actin dynamics through its BAR domain. (2017) EMBO Reports pii: e201744137. doi: 10.15252/embr.201744137
53. Romero-Pozuelo J, Demetriades C, Schroeder P and **Teleman AA**. CycD/Cdk4 and discontinuities in Dpp signaling activate TORC1 in the Drosophila wing disc. (2017) Developmental Cell 42: 376-87. doi: 10.1016/j.devcel.2017.07.019
54. **Teleman AA** and Perrimon N. Open questions: completing the parts list and finding the integrating signals. BMC Biol. (2017) 15:47 doi: 10.1186/s12915-017-0388-0.
55. Strassburger K, Lorbeer FK, Lutz M, Graf F, Boutros M and **Teleman AA**. Oxygenation and adenosine deaminase support growth and proliferation of ex vivo cultured Drosophila wing imaginal discs. (2017) Development dev.147538. doi: 10.1242/dev.147538
56. Schleich S, Acevedo JM, Clemm von Hohenberg K and **Teleman AA**. Identification of transcripts with short stuORFs as targets for DENR•MCTS1-dependent translation in human cells. (2017) Scientific Reports 7:3722. doi: 10.1038/s41598-017-03949-6
57. Moraru A, Cakan-Akdogan G, Strassburger K, Males M, Mueller S, Jabs M, Muelleder M, Frejno M, Braeckman BP, Ralser M, and **Teleman AA**. THADA regulates the organismal balance between energy storage and heat production. (2017) Developmental Cell 41:72-81
58. Pfaff DH, Fleming T, Nawroth P and **Teleman AA**. Evidence against a role for the Parkinsonism-associated protein DJ-1 in methylglyoxal detoxification. (2016) JBC 292:685-690
59. Strassburger K and **Teleman AA**. Protocols to Study Growth and Metabolism in Drosophila. (2016) Methods Mol Biol. 1478:279-290.
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