

Evandro Fei FANG (方飛), Ph.D.
CURRICULUM VITAE

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OFFICE ADDRESS

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The Fang Lab: <https://evandrofanglab.com/>



Current Primary Employment

- 2020.01.01~ Associate professor
Department of Clinical Molecular Biology, University of Oslo (UiO)
Akershus University Hospital, 1478 Lørenskog, Norway
- 2018.01~present Coordinator, the Norwegian Centre on Healthy Ageing (NO-Age) network:
<https://noage100.com/>
- 2019.06~present Coordinator, the Hong Kong-Nordic Research Network:
<https://noage100.com/the-hong-kong-nordic-research-network/>
- 2020.01~present Coordinator (with Prof. Menno P. Witter at NTNU), The Norwegian Alzheimer's disease network (NO-AD), supported by Nasjonalforeningen for folkehelsen (National Association for Public Health, Norway)
<https://noage100.com/no-ad/>

Joint appointments

- 2020.08~2023.07 Visiting Professor, The 1st Guangzhou People's Hospital, Guangzhou, China (5% appointment with payment, approved by UiO)
- 2018.08~2023.07 Visiting Professor, Sun Yat-sen University Medical School/The First Affiliated Hospital, China (特傳教授, 中山大學中山醫學院/第一附院)
(courtesy, no remuneration, approved by UiO)
- 2018.07~2021.06 Guest Professor, Jinan University, China (courtesy, no remuneration, approved by UiO)
- 2019.01~2022.01 Visiting Professor, Department of Clinical Gerontology, The First Affiliated Hospital, Zhengzhou University, China (courtesy, no remuneration, approved by UiO)

Previous Employment

- 2017.01-2017.08 Research Fellow, Laboratory of Molecular Gerontology, National Institute on Aging, NIH, USA
- 2017.10~2019.12 Group leader/Assistant professor
Department of Clinical Molecular Biology, University of Oslo

Akershus University Hospital, 1478 Lørenskog, Norway

Education and Professional Experience

2000.09-2005.07 Bachelor of Medicine, Anhui Medical University, China
2005.09-2008.07 Master of Medicine, Sun Yat-sen University, China
2009.01-2011.12 Doctor of Philosophy, The Chinese University of Hong Kong, Hong Kong
2012.02-2017.01 Postdoctoral Visiting Fellow, Lab of Molecular Gerontology, National Institute on Aging, NIH, USA (Advisor: Dr. Vilhelm Bohr).
2013.08-2017.01 Associate member, Laboratory of Neurosciences, National Institute on Aging, NIH, USA (Advisors: Drs. Mark P. Mattson and Mark Wilson).

Continuing Education/Training

2014.01 Short visit, Dr. James Mitchell's laboratory, Harvard School of Public Health, MA
2015.01-2015.06 Completed the course '*Methods in Neuroscience*' at the National Institute on Drug Abuse, Intramural research program (NIDA-IRP), NIH.
2015.02 "Elements of Effective Leadership": to develop effective public health and community leadership skills. Johns Hopkins Urban Health Institute, Baltimore, MD.
2016.05 NAD⁺ metabolism and detection at Dr. Joseph A. Baur lab, Perelman school of Medicine, University of Pennsylvania, USA
2016.07 Attended Butler-Williams Scholars Program NIH with a comprehensive training on gerontology and geroscience.
2016.08 Training on iPSCs techniques: Making Cardiomyocytes from iPSCs by Foundation for the Advanced Education in the Sciences at The NIH.
2017.11 FELASA animal handling diploma, NMBU
2018.12.05-07 School of health innovation for professors (by UIO, NTNU and Karolinska)
2019.05.27-28 The Research Leadership Programme – Consolidating Level 2019 (RLP13)
2019.09.03-05 (declined)
2020-12-15/17 EMBO Laboratory Leadership Training course

Honors and Awards

2009-2011 Ph.D programme scholarship (The Chinese University of Hong Kong)
2011 Finalist, HK Young Scientist Award (Hong Kong Institution of Science)
2014 Travel grant (International symposium on XP and related diseases, Japan)
2014 NIH The Fellows Award for Research Excellence
2015 NIH The Fellows Award for Research Excellence
2016 **Butler-Williams Scholar on Aging** (National Institute on Aging, USA)
2017 Finalist, ERC Starting Grant
2017 Helse Sør-Øst RHF awards Career fellowship
2017 FRIMEDBIO Young Research Talent
2018 **Founding member**, NO-Age network (www.noage100.com)
2018 Short-term visiting scholar, University of Macau
2019 Er Yi Innovation Forum Lecture, Shanghai Jiao-Tong University (21创新论坛, 上海交通大学), China.
2019 Rosa sløyfe Award, Norwegian Cancer Society
2019 2019.10.09: Visiting Outstanding Scholar Lecture, The key

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| 2019 | Laboratory of Public Health safety of Ministry of Education, Fudan University, Shanghai, China 2019.10.18: Memorial Seminar for Academician Zhijun Wang, College of Basic Medical Sciences, Peking University, China (北京大学基础医学院王志均院士纪念讲座) |
| 2020 | 2020.02.28: DKNVS 'scientific award to young scientist in the natural sciences for 2020 (DKNVS' vitenskapelige pris til yngre forskere innen naturvitenskap for 2020), by The Royal Norwegian Society of Sciences and Letters / Det Kongelige Norske Videnskabers Selskab (DKNVS). Two awardees each year nationwide, one in social science and the other in life sciences. Link |
| 2020 | 2020.06.18: Research Excellence Award 2020, The Akershus University Hospital |

Professional Service Association

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| 2012-present | NIH Mitochondria Interest Group (coordinator: Dr. Steve Zullo) |
| 2012-present | NIH DNA repair interest Group (coordinator: Drs. Bohr and Kraemer) |
| 2015-present | NIH Geroscience Interest Group sharePoint membership (coordinator Tracy M. Cope) |
| 2015-present | Baltimore Worm Club (coordinator: Dr. Andy Golden) |
| 2015~2016 | AAAS member |
| 2016~present | http://www.mitoglobal.org/index.php/MitoEAGLE |
| 2018~present | Member, Nordic Autophagy Society |
| 2019.10~present | Member, EuGMS Special Interest Group in AGING BIOLOGY (a total of 12 members from across Europe and the wide ERC areas, of whom half will be clinicians and half scientists). Chairs Eric BOULANGER (Lille, France) & Lynne COX (Oxford, UK) |
| 2019.11~present | Member, OxAgeN - the Oxford Ageing Network (coordinator Lynne COX) |

Societal Service (Scientific/Faculty recruitment and promotion evaluation committees)

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| 2020-present | Scientific Committee: PhD program in Neuroscience and Education at the University of Foggia, Italy |
| 2020-present | Faculty Evaluation Committee, Faculty of Medicine, UiO |
| 2020-present | University of new South Wales, Australia |
| 2021-present | Princeton University, USA |

Grant Review

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| 2011-present | Istituto Pasteur, Fondazione Cenci Bolognetti, Italy |
| 2015 | Chief Judge in study section 'Cell Cycle-General, Regulators and Checkpoints, Apoptotic Mechanisms', NIH FARE Award, USA |
| 2018.01-present | Israeli Ministry of Science, Technology & Space, Israel |
| 2018.03-present | FOUNDATION ALZHEIMER |
| 2019.03-present | The Danish Cancer Society, Denmark |
| 2019.03-present | Norwegian University of Science and Technology (NTNU) Strategic grant Norway |
| 2019.04-present | Health and Medical Research Fund from The Government of the Hong |

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| | Kong Special Administrative Region (HKSAR), Hong Kong (reviewed 4 grants in 2019; 2 in 2020) |
| 2019.04-present | French National Research Agency (ANR), France |
| 2019.05-present | Alzheimer's Society (www.grants.alzheimers.org.uk) |
| 2019.05-present | Food and Health Bureau (FHB) of The Government of the Hong Kong |
| 2019.09-present | National Science Centre (Narodowe Centrum Nauki - NCN http://www.ncn.gov.pl), Poland |
| 2019.10-present | NWO-FAPESP joint call on Healthy Ageing, Netherland-Brazil |
| 2019.11-present | Rosetrees Trust, UK |
| 2020.04-present | Norwegian Centennial Chair Program |
| 2020.06-present | FNR (Fonds National de la Recherche) Luxembourg CORE programme |
| 2020.07-present | Medical Research Council (MRC), UK |
| 2020.08-present | MS Research Australia |
| 2020.08-present | Dutch Research Council (NWO) |
| 2020.11-present | Great Ormond Street Hospital Children's Charity |

Editorial Boards

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| 2014 | Co-Guest editor, special issue " <i>Lectins</i> " for <i>Molecules</i> https://www.mdpi.com/journal/molecules/special_issues/lectins |
| 2015-present | Editorial Board member, <i>Molecules</i> |
| 2015-present | Review editor: <i>Pharmacology of Anti-Cancer Drugs</i> |
| 2016 | Guest editor, special issue " <i>Mitochondrial Health to ageing and possible therapeutic strategies</i> ", <i>Current Medicinal Chemistry</i> |
| 2018-present | Editorial Board Member: <i>Translational Medicine of Aging</i> (the official journal of the Asian Society for Aging Research) |
| 2018-present | Editorial Board Member: <i>Ageing Research Reviews</i> (IF ²⁰¹⁸ : 10) |
| 2018-present | Founding editor, NO-Age website (www.noage100.com) |
| 2019-present | Editorial Board Member: <i>Current Alzheimer Research</i> (https://currentalzheimerresearch.net/editorial-board.php) |
| 2020-present | Editorial Board Member: <i>Ageing and Health Research</i> (https://www.journals.elsevier.com/aging-and-health-research/) |
| 2020-present | Associate Editor: Frontiers in Aging - Interventions in Aging) |
| 2020-present | Associate Editor: Frontiers" Genetics Wide Animal Models of Alzheimer's Disease" (With Drs. Martin Can Zhang and Changning Wang at Harvard Medical School) |
| 2020-2021 | JOVE special issue on mitophagy https://www.jove.com/methods-collections/436 |
| 2020-2021 | Guest editor for 'NAD+ in aging and in neurodegenerative diseases', Mechanisms of Ageing and Development. Call |
| 2021.01- | Editorial Board Member: <i>Mechanisms of Ageing and Development</i> |
| 2021.01- | Editorial Board Member: <i>Ageing Brain</i> |

Ad hoc Reviewer for (#, numbers of papers reviewed)

A: Alzheimer's & Dementia (2020.08~#1); Autophagy (#3); Ageing research reviews (#2); Aging Cell (2019.08~, #4); Ageing (2019.12~#3); Aging and Health Research (2020.10~#1); Acta Pharmacologica Sinica (2021.02~#1)

B: BBA-General Subjects (#1); Biological Psychiatry (#1); Biogerontology (2019.01~, #2); Biological Sciences (#1); Biomedicines (2020.10~, #1); Biomolecules (#1); Brain Behavior and Immunity (2020.06~, #1); Briefings in Bioinformatics (2020.08~#3).

C: Cell Metabolism (#1); Cancer Letters (#1); Cytotechnology (2020.01~, #1); Cellular and Molecular Life Sciences (2020.10~#1); Cellular and Molecular Neurobiology (2020.10~#1)

D: DNA Repair (2019.11~, #1).

E: EMBO Reports (#3); Environmental Toxicology and Pharmacology (2019.03~, #1); Experimental Neurology (2019.12~, #1).

F: FASEB Journal (2019.09~, #1); Pharmacological Research (2020.06~, #1)

I: International Review of Cell and Molecular Biology (2019.10~, #1); iScience (2019.11~, #1); International Journal of Molecular Sciences (2020.02~, #2).

J: Journal of Neuroscience (#1); Journal of Neuroinflammation (2020.05 #4); Journal of Integrative Neuroscience(2020.02~, #1); Journal of Gerontology (#1); Journal of Human Hypertension (2019.10~, #1); Journal of Affective Disorders (2019.11~, #1); Journal of Alzheimer's disease (2020.03~, #1);

M: Mechanisms of Ageing and Development (#1); Mitochondrion (#2); Molecules (#1); Mini-Reviews in Medicinal Chemistry (#1); Molecular Neurodegeneration (2019.05 ~, #2); Molecular Neurobiology (2020.03 ~, #2); Molecular Psychiatry (2020.09~, #2); Molecular Therapy – Nucleic Acids (2020.06 ~, #1).

N: Nature Neuroscience (2020.11~, #1); Nature Ageing (2020.12~, #3); Nature Metabolism ((2021.01~, #1)); Nature Communications (2019.12~, #6); Neuroscience Letters (2019.06~, #1); NPJ Aging and Mechanisms of Disease (2020.05~, #4); Neurobiology of Ageing (2021.02~, #1)

O: Oncotarget (#1); Orphanet Journal of Rare Diseases (2019.05~, #3).

P: Protein and Peptide Letters (#1).

R: Redox biology (2020.04~, #1); Review commons (2020.12~, #1)

S: Science (#2); Signal Transduction and Targeted Therapy (2019.04 ~, #1).

T: Trends in Molecular Medicine (#1); Trends in Biochemical Sciences (2019.06~, #1); Translational Psychiatry (2019.11~, #1); Translational Neurodegeneration (2020.02~, #4); Toxicology Letters (#1); Toxins (#1).

And others.

Teaching and Mentoring

Teaching experience (S, scheduled)

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| 2010-2011 | Teaching assistant (biochemistry) for MBBS students, CUHK, HK |
| 2014-2017 | <i>C. elegans</i> basics to the new trainees at LMG, NIH |
| 2019 | Lecture in Course MED3062 on biomarkers in clinical practice and research, UiO (led by Prof. Hilde Nilsen) |
| 2020 | Lecture in course MED3053: Nevrodegenerativ sykdom – biokjemi og cellebiologi, UiO (lead by Prof. Anne Simonsen) |
| 2020 | Ph.D. course Lecture MFS9135: Biomarkers in clinical research, UiO (Led by Prof. Lars Eide) |
| 2021 | Lecture in course MED3053: Nevrodegenerativ sykdom – biokjemi og cellebiologi, UiO (lead by Prof. Anne Simonsen) |

As an examiner for master and Ph.D. dissertations (S, scheduled)

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| 2018.07.17 | The Role of mitophagy in MEHP toxicity and development of tumor intervention strategies based on autophagy Ph.D defendant: Jan XU (mentor Prof. Da-jing XIA) |
| 2019.05 | External reviewer for Domenica Caponio's Ph.D thesis (Università degli Studi di FOGGIA) |
| 2019.07 | External reviewer for Mr. Sudharshan SJ (Reg No. 1300102001) Ph.D. thesis, School of Life Sciences, Pondicherry University, Puducherry, India |

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| 2019.06.21 | External examiner for a master student Katrine Sjaastad Hanssen at Kavli Institute for Systems Neuroscience, NTNU (mentors: Asgeir Kobro-Flatmoen and Ioanna Sandvig) |
| 2020.11.19 | External examiner for Msc candidate Xu-rui Jin (Duke Kunshan University, China) |
| 2020.12.07S | As an external examiner for the Ph.D. defense of Sharath Anugula (Mentor Lene J Rasmussen) from the University of Copenhagen, Denmark |
| 2021.xx.xxS | As an external examiner for the Ph.D. defense of Ms. Yuyao Tian at The Chinese U. of Hong Kong, HKSAR. |

Mentoring (co-mentoring)

At the Chinese University of Hong Kong

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| 2010.06-2010.12 | Clara Shui Fern Bah (Ph.D. candidate, University of Otago, New Zealand): exchange student (with Ng TB) Research outputs: 5 research articles; one book chapter |
| 2010 | Abdallah Abd Elazeem Hassanien (Ph.D. candidate, Zagazig University, Egypt), exchange student (with Ng TB) Research outputs: 2 research articles |
| 2011 | Ho Him Leung (BS candidate, Imperial College London, UK): summer student (with Ng TB) Research outputs: 1 book chapter |
| 2011 | Vivian Yeong (BS candidate, Harvard College): summer student (with Ng TB) |

At the National Institute on Aging

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| 2014-2015 | Lynn Froetscher (BA, Colorado College): postbaccalaureate (with Bohr VA/Scheibye-Knudsen M) Research outputs: 1 review article |
| 2015.05-2015.10 | Dr. Henok Kassahun (Postdoc, University of Oslo): exchange student (with Bohr VA). Research outputs: 2 research articles |
| 2015.06-2015.08 | Bradley Wollman (BS candidate, Washington College): summer student (with Bohr VA) Research outputs: 2 research articles |
| 2015.10-2016.03 | Marya Morevati (Ph.D. candidate, University of Copenhagen): 6-month exchange student (with Bohr VA) Research outputs: 2 research articles |
| 2015.12-2016.08 | Qiping Lu (Ph.D. candidate, Ohio University): exchange student (with Bohr VA) Research outputs: 2 research articles |
| 2015.06-2017.06 | Elayne Fivenson (BS, University of Michigan): postbaccalaureate (with Bohr VA). Winner of outstanding poster award at NIH Postbac Poster Day 2017 Research outputs: 1 first-author review article |
| 2015.06-2017.06 | Stephanie Cordonnier (BA, Kenyon College): postbaccalaureate (with Bohr VA/Y Hou/M Misiak). Winner of outstanding poster award at NIH Postbac Poster Day 2017 Research outputs: 1 review article |

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| 2016.02-2017.08 | Jesse S. Kerr (BS, The Evergreen State College): postbaccalaureate (with Bohr VA) Research outputs: 1 first-author review article |
| 2016.02-2017.03 | Tyler B. Waltz (BS, Arcadia University): postbaccalaureate (with Bohr VA) Research outputs: 1 co-first-author research article |
| 2016.06~08 | Steven Isett (BS candidate, Tufts University): summer student (with Yie Liu). Winner of NIA Barbara Hughes Award of Excellence. |
| 2017.06-2018.06 | David Figueroa (B.A., Rutgers university): postbaccalaureate (with Bohr VA) |
| 2017.07-2017.08 | Raul Y Ramos (BS candidate, University of Puerto Rico Rio Piedras Campus): summer student (with Bohr VA) (Transferred due to time conflict) |

At the University of Oslo

Mentoring Postdocs (at UiO) (gray: former members; Dark, current members)

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| 2018.01-2019.01 | Dr. Mahdi Hasan-Olive (Ph.D., UiO), postdoc fellow. Current: Senior Engineer, UiO |
| 2018.02-2021.01 | Dr. Aman Yahyah (Ph.D., King's College London), postdoc fellow Postdoc at UCL Ageing Centre, UK |
| 2018.09-present | Dr. Guofeng Lou (Ph.D., Ji-nan U), postdoc fellow |
| 2018.10-present | Dr. Sofie H. Lautrup (Ph.D., Aarhus U.), postdoc fellow <ul style="list-style-type: none"> • Awardee, 2019 Keystone Symposia scholarship • Awardee, best oral talk in the BSCC – Fifth Annual Meeting 2019 |
| 2019.09-2020.11 | Dr. Cheng-long XIE (Ph.D., Shanghai Jiaotong U.), postdoc (Wenzhou Medical University/MMU, China). Current: Associate Chief Physician/similar as Associate Professor (WMU, China) |
| 2019.11-present | Dr. Maria Jose Donate Lagartos (Ph.D., University of Castilla-La Mancha, Spain), postdoc fellow |
| 2020.10-present | Dr. Domenica Caponio (Ph.D., Università degli Studi di FOGGIA, Italy) |
| 2020.10-2021.01 | Dr. Shi-lu Chen (part time) (Ph.D., Sun Yat-sen U., China) |
| 2021.01-present | Dr. Janet Jian-ying Zhang (Ph.D., Sun Yat-sen U., China) |

Mentoring Ph.D. students, (at UiO)

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| 2017.11-2018.07 | Domenica Caponio , Ph.D candidate (Università degli Studi di FOGGIA, Italy) (co-mentor) Current: Postdco in the Fang lab |
| 2020.02-2021.07 | Shuqin Cao , visiting Ph.D. student (Chulalongkorn University, Thailand) (co-mentor) |
| 2020.08-present (2021.04-) | Alice Rui-xue Ai , Ph.D. student at UiO (Primary mentor) (document in preparation) |
| 2020.11-present (2021.05-) | Caroline Shiqi Zhang , Ph.D. student at UiO (Primary mentor) |
| 2021.04-present | Tomas A. Schmauck-Medina , Ph.D. student at UiO (Primary mentor) |
| 2020.12-present (2021.06-) | He-ling Wang , Ph.D. student at UiO (Primary mentor) (document in preparation) |

Mentoring Master/Ph.D students (at UiO)

2019.12-2021.05 Master student Mr. **Ruben Gudmundsrud**
2020.03-2021.04 Master student Mr. **Tarjei Hartmann Skjånes**

Mentoring summer students, ERASMUS exchange students etc (at UiO)

2018.04-2018.09 Annalisa Altera (ERASMUS programme)
2018.05-2018.07 Aina Balto (summer student)
2018.05-2018.07 Ann Isabel Rosvoll (summer student)
2018.06-2019.06 Madiha Samrin Khalid (special volunteer)
2019.06-2019.07 Mr. Sarosh Bekir (MBBS student, Pomeranian Medical University, Poland)
2019.07-2020.02 Mr. Johannes Frank (ERASMUS student, University of Applied Sciences in Krems, Austria)
2019.08-2019.08 Mr. Adrian Matysek (Medical University of Silesia in Katowice, Poland)
2020.02-2020.08 Dr. Rui-Yu Han, visiting scholar (HE BEI REPRODUCTIVE MEDICINE CENTER, <http://www.hbisky.org.cn/>)
2020.03-present Martin Andreas Wilvang, UiO medical student
2020.03-present Ole Kristian Reiten, UiO medical student
2020.07-2020.10 Pawel Strychalski, ERASMUS student (Gdansk Medical University, Poland)
2020.09-2021.03 Tomas A. Schmauck Medina (master degree UCL), lab engineer UiO.

As an organizer of national and international meetings (S, scheduled)

2013.07 Moderator, The 5th Annual NIH-Baltimore Fellows Symposium, NIA, MD
2015.07 Moderator, LMG Invited Seminar series (speaker: Dr. Anthony K.L. Leung, Johns Hopkins University)
2019.02.05 Lead organizer, The 1st NO-Age Symposium, Oslo, Norway
<https://www.med.uio.no/klinmed/english/research/news-and-events/events/guest-lectures-seminars/2018/the-1st-no-age-symposium-on-how-to-promote-health.html>

- With Financial support from Norwegian Biochemical Society (applied by Evandro Fang)

2019.06.12 Lead organizer, The 2nd NO-Age Symposium, Oslo, Norway
<https://www.odont.uio.no/english/research/events/2019/genomic-instability-in-human-brain.html>
2020.11.25S 25 Nov 2020: The 1st NO-AD Network Annual Meeting (zoom)
2021.05.28 to Organizer (Chair): The Nordic Centre Biennial Meeting (Shanghai 28-29
2021.06.03S May 2020) *cum* The 1st International Symposium of the Hong Kong-Nordic
(two meetings) Research Network On Global ageing and related healthcare challenges
(Hong Kong 01-02 June 2020)
2022.03 Co-organizer (with Tinna V. Stevnsner and Lene Juel Rasmussen):
Symposium on New Hallmarks of Aging – 0061607 (funding from Novo Nordisk Foundation)

Seminar hosted (invited and co-hosted by Evandro F. Fang)

List details:

<https://evandrofanglab.com/guest-speakers/>

<https://noad100.com/meetings-events/>

2017.11.09 Prof. David Rubinsztein (University of Cambridge) on 'Autophagy and

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| | Neurodegeneration' |
| 2018.01.26 | Prof. Vilhelm Bohr (NIA, U of Copenhagen) on 'DNA repair, mitochondria, and treatment of human age-related diseases' |
| 2018.03.26 | Ms. Sofie Lautrup (Aarhus University) on 'Genome instability and NAD+ metabolism in aging and Alzheimer's disease' |
| 2018.06.08 | Prof. Linda H. Bergersen (University of Oslo) on 'The lactate receptor HCAR1 in the brain' |
| | Prof. Jon Storm-Mathisen (University of Oslo) on 'Brain anatomy and main transmitters (glutamate and GABA)' |
| 2018.09.07 | Dr. Konstantinos Palikaras (Institute of Molecular Biology and Biotechnology, Crete/Greece) on 'Investigating the role of mitophagy in neuronal homeostasis' |
| 2018.10.18 | Prof. Patty Lee (Y-Age, Yale University; International member of NO-Age) on 'Links between Innate Immunity & Senescence in Lung'. |
| 2019.01.29 | Prof. Jens Pahnke (UiO) on 'ABC transporters as new diagnostic and treatment option for dementia'. (with Ahus/EpiGen Meeting series, organized by Drs. Sofie Lautrup and Torunn Rønningen) |
| 2019.12.12 | The NO-Age and NO-AD Seminar Series 001 Synaptic changes in Alzheimer's disease and other dementias', Prof. Paul Francis King's College London and University of Exeter, UK |
| 2020.01.10 | The NO-Age and NO-AD Seminar Series 002, 'NAD+ augmentation in liver protection and health', Prof. Lili Yang, Department of nutrition, School of Public Health, Sun Yat-sen University, China |
| 2020.04.15 | The NO-Age and NO-AD Seminar Series 004, 'From pathological ageing to healthy longevity' themed seminar by Profs. George Martin (University of Washington, Seattle, USA), Lynne Cox (University of Oxford, UK) etc. |
| 2020.04.24 | The NO-Age and NO-AD Seminar Series 003, 'Blood Proteomic Biomarkers for Alzheimer's Disease', Dr. Liu Shi, University of Oxford, UK |
| 2020.06.09 | The NO-Age and NO-AD Seminar Series 005, 'Alzheimer's disease – novel tau-based mechanisms and ultrasound-based therapeutic interventions' by Prof. Jürgen Gotz, The University of Queensland, Australia. |
| 2020.06.22 | The NO-Age and NO-AD Seminar Series 007, "The Impact of Intermittent Bioenergetic Challenges on Brain and Body Health" by Prof. Mark P. Mattson, Ph.D., The Johns Hopkins University, Baltimore, USA |
| 2020.09.24 | The NO-Age and NO-AD Seminar Series 008, "Is it possible to control the progression of ALS?" by Prof. Jose M. Estrela, M.D., Ph.D., the University of Valencia, Spain |
| 2020.11.10S | The NO-Age and NO-AD Seminar Series 006, "Cellular recycling: Role of autophagy in aging and disease" by Prof. MALENE HANSEN, Ph.D., Sanford Burnham Prebys Medical Discovery Institute, USA |
| 2020.11.23S | The NO-Age and NO-AD Seminar Series 009, "Tracing and Manipulating NAD+ Metabolism in Cells and Mitochondria" by Assoc. Prof. Joseph Baur, Ph.D., University of Pennsylvania, USA |

Conferences/Meetings

Invited Talks

At the National Institute on Aging

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| 2013. 10 | The 3 rd Regional Translational Research in Mitochondria, Aging, and Disease Symposium, PA, USA. Absence due to government furloughs. |
| 2014. 03 | International symposium on XP and related diseases, Kobe Japan. With travel grant (JPY 120,000). |

2014. 03 The 19th Annual NIA IRP Scientific Retreat, NIH. Baltimore
2014. 05 NIH DNA repair video conference, NIH
<http://videocast.nih.gov/summary.asp?Live=14212&bhcp=1>
2014. 10 The 4th Regional Translational Research in Mitochondria, Aging, and Disease, Pitt, PA, USA.
2014. 11 The 9th brain research conference: Neuroprotection, Basic mechanisms and translational potential, DC.
2014.12 The Chinese University of Hong Kong, HK.
2014.12 SPH, Fudan University, China.
2015.03 Ted talk for the 2015 NIA Retreat, Baltimore.
2015.07 Biology of Aging, Gordon Research Conference, Newry, ME.
2015.09 Young Investigators short talks, DNA repair Interest Group Videoconference.
2015.10 NIH FARE awardee' talks, NIH Postdoctoral Fellows Symposium
2016.03 Ted talk for the 2016 NIA Retreat, Baltimore.
2016.03 2016 NIA Retreat, Baltimore.
2016.03 University of Oslo, Norway
2016.03 Center for Healthy Aging, University of Copenhagen, Denmark
2016.04 **The Weatherall Institute of Molecular Medicine, University of Oxford, UK**
2016.04 **Cambridge Institute for Medical Research, University of Cambridge, UK**
2016.08 NIA grant workshop on Autonomous and non-autonomous mechanisms of aging, Bethesda, NIH.
2016.09.30 CSHL Meeting: Mechanisms of Aging, Cold Spring Harbor, USA
2016.10.29 The 6th Regional Translational Research in Mitochondria, Aging, and Disease Symposium, PA, USA
2017.01.24 On behalf of the lab for the annual meeting to the National Institute on Aging.
2017.02.07 University of Michigan Medical School, Ann Arbor, MI, USA
2017.02.13 **Yale University Medical School, New Haven, CT, USA**
2017.03.02 NIA Annual Retreat

At the University of Oslo (*S* scheduled)

2017

2017.09.26 Cutting Edge festival (Oslo, Norway (absence))
2017.11.01 The 6th Nordic Autophagy meeting, Sigtuna, Sweden (absence).
2017.11.10 NEUROMITO meeting, Oslo, Norway

2018

2018.01.18 The 54th Contact Meeting of the Norwegian Biochemical Society, Norway
2018.01.23 University of Oslo, Norway
2018.01.30 NCMM, University of Oslo, Norway
2018.02.15 Faculty of Medicine, Kyoto University, Japan
2018.02.17 International symposium on XP and related diseases, Kobe Japan. With travel grant.
2018.04.20 NEUROMITO meeting, Bergen, Norway
2018.06.29 SBS, The University of Hong Kong (香港大學), HK
2018.07.03 SBS, The Chinese University of Hong Kong (香港中文大學), HK
2018.07.04 Hong Kong Society for Cell Biology 2018 Annual Meeting, HK

2018.07.05 Medical School, Ji-nan University (暨南大學), China

2018.07.06 Sun Yat-Sen School of Medicine, Sun Yat-sen University (中山大學)

2018.07.07 The 2018 Chinese Hypertension Conference, Guangzhou, China

2018.07.16 Bio-X Center, Shanghai Jiao-Tong University (上海交通大學), China

2018.07.17 Medical School, Zhe Jiang University (浙江大學), China

2018.07.19 School of Life Sciences, Tong Ji University (同濟大學), China

2018-08-23 Workshop on Norwegian Center for Healthy Aging 'No-Age', UiO, Norway

2016.09-05 The Weatherall Institute of Molecular Medicine, University of Oxford, UK

2018.09.07 **British Society for Research on Ageing's (BSRA) annual scientific meeting, Oriel College, University of Oxford, UK**

2018.09.19 Virginia-Nordic Precision Neuroscience II – Oslo, Norway

2018.09.24 Aging and Metabolism, Cell symposia, Sitges, Spain (a short presentation on NO-Age)

2018.10.18 Department of Biosciences, UiO, Oslo, Norway

2018.10.23 SUPERGROUP meeting, UiO Autophagy network, Oslo, Norway

2018.10.29 University of Macau, Macau

2018.11.08 Søkndsseminar, Akershus Universitetssykehus (Kirurgisk divisjon)

2018.11.13 Center for Healthy Aging, University of Copenhagen, Denmark

2019

2019.02.05 NBS Winter-meeting 2019, Røros, Norway

2019.02.05 The 1st NO-Age Symposium, Oslo, Norway (two talks, UiO and the National Library Litteraturhuset)

2019.02.20 State Key lab of Medical Neurobiology, Fudan University (復旦大學)

2019.02.22 Department of Clinical Gerontology, Zhengzhou University (鄭州大學)

2019.02.26 Wenzhou Medical University (溫州醫科大學)

2019.02.08 The Neuroscience Research Centre, Soochow University (蘇州大學)

2019.03.01 College of Nano Science and Technology, Soochow U. (蘇州大學)

2019.03.04 Er Yi Innovation Forum Lecture, Key Lab of Cell Differentiation and Apoptosis of National Ministry of Education, Shanghai Jiao-Tong University (上海交通大學), China.

2019.04.05 School of Lifesciences, Hong Kong University of Science and Technology (HKUST, 香港科技大學), Hong Kong.

2019.04.09 Nature Conferences: Cellular Metabolism (April 8-11, 2019), Xaimen, China.

2019.04.12 Institute of Basic Medical Sciences, WestLake University (西湖大學)/West Lake Institute for Advanced Study, China.

2019.04.16 Global Health Research Center, Duke Kunshan University (昆山杜克大學), China.

2019.04.22 Institute of Molecular Biosciences, Mahidol University, Thailand.

2019.05.20 Invited lecture in the Norwegian business company AKER (with the attendance of Kjell Inge Røkke)

2019.05.02 NTNU (Norges teknisk-naturvitenskapelige universitet), Norway

2019.05.24-25 **International Perspectives on GEROSCIENCE Meetings 2019** (Sponsored by the Nathan Shock Centers) + 2019 Asian Geroscience Conference: Ageing mechanisms and intervention that impact senior health, Shenzhen, China

| | |
|---------------|---|
| 2019.05.26 | Lecture, Opening Ceremony of the Immuno-ageing Center, Ji-Nan University, China |
| 2019.05.26-28 | The advanced Study Institute Symposium on Ageing (Croucher Foundation), HKU, Hong Kong |
| 2019.07.02 | University of Singapore, Singapore |
| 2019.07.05 | Three lectures School of Public Health, Sun Yat-sen University (中山大學) The Gerontology and ageing Center, The People's Hospital of Guangdong Province The 1 st Affiliated Hospital, Sun Yat-sen University (中山大學) |
| 2019.09.05 | The Hanzhou National day & the 2 nd International symposium organized by the Imperial Institute of Advanced Research, China |
| 2019.09.24 | Public discussion on ageing and health at the National Library Litteraturhuset (organizer Linda H. Bergersen) |
| 2019.10.03 | Keynote: Bergen Stem Cell Consortium 5 th Annual Meeting 2019, Norway |
| 2019.10.09 | Visiting Outstanding Scholar Lecture, The key Laboratory of Public Health safety of Ministry of Education School of Public Health, Fudan University (復旦大學), China |
| 2019.10.12 | A two-day national symposium on neurodegenerative diseases, The 4 th Affiliated Hospital, Zhejiang University, China |
| 2019.10.14 | School of Public Health, Anhui Medical University, China |
| 2019.10.16 | Institute of Biophysics, CAS, China (中国科学院生物物理研究所) |
| 2019.10.17 | Chinese Academy of Medical Sciences & Peking Union Medical College (中国医学科学院&北京协和医学院) |
| 2019.10.18 am | Institute of Quantitative Biology, Peking University |
| 2019.10.18 pm | Memorial Seminar for Academician Zhijun Wang, College of Basic Medical Sciences, Peking University, China (北京大学基础医学院王志均院士纪念讲座) |
| 2019.11.12 | Oxford Parkinson's Disease Centre, Oxford University, UK |
| 2019.11.13 | Department of Psychiatry, University of Oxford, UK |
| 2019.11.15 | Cambridge Institute for Medical Research, Cambridge University, UK |
| 2019.11.19 | Faculty of Medicine, Department of Brain Sciences, Imperial College London, UK |
| 2019.11.19 | Alan Turing Institute, UK |
| 2019.11.20 | UCL Queen Square Institute of Neurology, UCL, UK |
| 2019.11.20 | Institute of Psychiatry, Psychology & Neuroscience, King's College London, UK |
| 2019.11.22 | Maurice Wohl Clinical Neuroscience Institute, King's College London, UK |
| 2019.11.29 | Conference: Natural products for the promotion of healthspan and lifespan, Chulalongkorn University, Thailand. |
| 2019.12.11 | Kjære demensforskere og venn av Nasjonalforeningen for folkehelsen, Norway |
| 2020 | S: scheduled; C, cancelled |
| 2020.02.12 | UiO Life-science event 'Hvordan overleve alderdommen?' at Gamle Festsal |
| 2020.03.04 | University of Southern Denmark, Denmark (host Prof. Moustapha Kassem) |
| 2020.03.10 © | GRC Autophagy meeting (cancelled due to COVID-19) |
| 2020.03.13 © | Institute for Memory Impairments and Neurological Disorders (UCI MIND), University of California, Irvine (host: Gregory Brewer), USA (cancelled due |

to COVID-19))
 2020.08.06 Peking Union Medical College-Johns Hopkins Joint Symposium on ageing and geriatrics [Video](#)
 2020.09.01 The 7th Annual Ageing Research and Drug Discovery Meeting (organizer: Morten Scheibye-Knudsen)
 2020.09.24/25 The 2nd symposium on cellular coenzymes, Bergen, Norway. Organizer : International Association of Cellular Coenzymes, IACC (rescheduled to 2021)
 2020.10.21 Norwegian Association of Pharmacists, Oslo, Norway (zoom)
 2020.10.22 University of Bergern, Norway (host: Mathias Ziegler) Via zoom
 2020.11.17 SPIN (Signal Processing in neurons), Innsbruck (Host: Larissa Traxler / Jerome Mertens), Austria. Via zoom

2021

S: scheduled; C, cancelled
 2021-03-03 S Queensland Brain Institute, The University of Queensland, Brisbane, Australia
 2021-12-14 to18 Winter School called "Mitochondria in health, disease and aging by Prof. Veronique Paquis-Flucklinger, Nice, France.

2022

S: scheduled; C, cancelled
 2022.05.28-29S The Nordic Centre Biennial Meeting (Shanghai 28-29 May 2020)
 2022.06.01-03S The 1st International Symposium of the Hong Kong-Nordic Research Network On Global ageing and related healthcare challenges, CUHK, Hong Kong

Attendance of other selected conferences/Meeting

2015.03 Biology of Sirtuins (C3). Keystone Symposia. Santa Fe, New Mexico USA
 2015.05 NIA Caenorhabditis Intervention testing program. NIH Bethesda, MD USA
 2016.05 NHLBI/NIDDK Mitochondrial Biology Symposium, NIH Bethesda, MD USA
 2016.08 NIA Mitochondrial dynamics, mitophagy and aging, NIH Bethesda, MD USA
 2017.09 EMBO conference. Autophagy: From molecular principles to human diseases, Cavtat-Dubrovnik, Croatia

Clinical trials

2016.11 Key participant, Clinical trial of NR on Cockayne Syndrome in the USA (Leader Wilhelm Bohr) (<http://investors.chromadex.com/phoenix.zhtml?c=212121&p=irol-newsArticle&ID=2221715>)
 2018.11 Key participant, Clinical trial of NR on Ataxia telangiectasia in Norway (Leader Hilde Nilsen)
 2020.01 NAD⁺ (NR) for Parkinson's disease (PI: Charalampos (Haris) Tzouliss)
 2020.01 NAD⁺ (NR) for post-sepsis fatigue (PI: Arne Søråas)
 2020.05 NAD⁺ (NR) for breast cancer patients (Pis: Evandro F. Fang, Hilde Nilsen)
 2020.05 NAD⁺ (NR) for ALS (PI: Ole-Bjørn Tysnes)
 (in preparation)

Collaborations with Industry

2018.10 Collaboration with Aladdin to use big data and machine learning to develop novel biomarkers for ageing and Alzheimer's disease.
<https://noage100.com/2018/10/23/no-age-collaborates-with-aladdin/>

Grants

Current:

- 2017-2020 Sponsor: HELSE Sør-ØST,
Project: Modulating mitophagy as a therapeutic approach for Alzheimer's disease
Project No: 2017056
PI/Project Leader: Evandro F. Fang
- 2017-2021 Sponsor: The Research Council of Norway
Project: Roles of compromised mitophagy in Alzheimer's Disease
Project No: 262175
PI/Project Manager: Evandro F. Fang
- 2019-2021 Sponsor: Akershus University Hospital
Project: Mechanisms of defective mitophagy machinery in Alzheimer's Disease (Score 9.9/10)
Project No: Ksted (900030)
PI/Project Manager: Evandro F. Fang
- 2019-2020 Sponsor: Aladdin-Ahus grant (kostnadssted 900050, prosjektnr 289909)
- 2020-2023 Sponsor: Rosa sløyfe, Norwegian Cancer Society & Norwegian Breast Cancer Society
Project: Prevention of treatment-induced cardiotoxicity in breast cancer
Project No: Project No: 207819
PI/Project Manager: Evandro F. Fang
- Also Viser til søknad om prosjektmidler for «To evaluate NAD⁺ levels in patients with breast cancer», by National Network for Breast Cancer Research.
Project No: 299920
- 2020-2023 Sponsor: NSFC
Project: 线粒体自噬缺陷在阿尔茨海默病发病机制以及早期诊断中的作用研究
Project No: 81971327
PI/Project Manager: Evandro F. Fang
- 2020-2020 Sponsor: Nasjonalforeningen for folkehelsen
Project: The NO-AD network
Project No: 19527-NO-AD network
PI/Project Manager: Evandro F. Fang (major co-PI Prof. Menno Witter)
- 2020-2023 Sponsor: HELSE Sør-ØST
Project: Turning up NAD⁺-induced mitophagy to treat Alzheimer's disease
Project No: Project No: 2020001
PI/Project Manager: Evandro F. Fang

- 2020-2024 The 1st Czech Republic-Norway KAPPA programme grant (50% of a total of 1.5 million EURO), ranked 2nd among 154 applicants, for a project aiming to develop 'mitophagy proteins' as early biomarkers for AD; the co-PI at the Czech Republic side is Prof. Martin Vyhnálek. #TO01000215
- 2021.04-2024.03 Doktorgradsstipend, Molecular linkages of the impaired NAD⁺-mitophagy axis and tau pathology in Alzheimer's disease. PI. Grant number 2021021.
- 2021.11-2024.11 Crosstalk between defective mitophagy and Tau pathology in the initiation of Alzheimer's disease. Civitan Norges Forskningsfond for Alzheimers sykdom. 500,000 NOK/year for 3 years.

Finished:

- 2013-2014 NIA Intra-laboratory grant, \$30,000
Sponsor: NIA IRP (NIH)
Title: Effects of NAD⁺ supplementation and PARP inhibition on Ataxia telangiectasia
PI: Evandro F. Fang
PD: Vilhelm Bohr
- 2015-2016 NIA Intra-laboratory grant, \$76,500
Sponsor: NIA IRP (NIH)
Autophagy upregulation as therapeutic strategy for Alzheimer's disease
PI: Evandro F. Fang
PD: Vilhelm Bohr
- 2015-2016 NIA Intra-laboratory grant, \$45,850
Sponsor: NIA IRP (NIH)
Anti-aging effects of tomatidine: a natural compound in green tomato
Key investigator: Evandro F. Fang
PI: Kevin G. Becker
- 2016-2017 NIA Intra-laboratory grant, \$82,040
Sponsor: NIA IRP (NIH)
Mitophagy upregulation as therapeutic strategy for Alzheimer's disease (renewed)
PI: Evandro F. Fang
PD: Vilhelm Bohr
- 2014-2017 CRADA with GSK (GlaxoSmithKline), LMG, NIA
To investigate anti-aging and other biological activities of novel SIRT1 activators
Key investigator: Evandro F. Fang
PI: Vilhelm Bohr
- 2014-2017 CRADA with Chromadex, LMG, NIA
Clinical trials of NR for Cockayne syndrome patients.
Key investigator: Evandro F. Fang

PI: Vilhelm Bohr

- 2017-2017 Sponsor: The Research Council of Norway, NOK 250,000 (funding for ERC resubmission)
Project: Mechanisms leading to compromised mitophagy in Alzheimer's disease
Project No: 277813 (UiO number 144602)
PI/Project Manager: Evandro F. Fang
- 2017 A direct funding from Akershus University Hospital, NOK 500,000
Project No: Ahus 900030/390701
PI/Project Manager: Evandro F. Fang
- 2019 Sponsor: Akershus University Hospital, NOK 210,000
Project: Establishment of a neuronal stem cell culture platform at the Akershus University Hospital
Project No: Project No: Ksted (900030), Prosjektnr (269918)
PI/Project Manager: Evandro F. Fang

Ethical approvals (clinical materials)

- **28846** Mekanismer som fører til kompromittert mitofagi i Alzheimers sykdom
Forskningsansvarlig: Universitetet i Oslo (expires on 20.07.2022)
- **28836** Alder, kjønn og livsstil relaterte forskjeller i NAD nivåer og risikoen for aldersrelaterte sykdommer; Forskningsansvarlig: Akershus universitetssykehus HF; Søker: Evandro Fei Fang (Tromsø study) (expires on 31.12.2025)
- **66024** Nye mitofagi-baserte biomarkører for Alzheimers sykdom og forbindelser til kognitiv funksjon (NorCog biobank) (expires on 31.12.2025)
- **82685** Målretting på NAD + -mitofagi-aksen for å avdekke ny molekylær mekanisme av Alzheimers sykdom og å utvikle nye medikamentkandidater (get access to the brain samples from KCL) (expires on 28. 02.,2022)

Ethical approvals (animals)

- NAD to treat AD mice (FOTS ID 16060) from 22 Oct 2018 to 22 October 2022.

Publications

Summary

Total **47** peer-reviewed research articles (**22** as first/co-first author; **2** as corresponding author)

Total **44** reviews/editorials (**16** as first author, **20** as corresponding author)

Total **21** book chapters (**9** as first/co-first/corresponding author)

Total **1** edited book (*Springer*)

Total **1** edited 'Ageing research method archive' (*JOVE, in progress; with S. Lautrup*)

Total **3** edited Journal special issues (*Molecules; Current Medicinal Chemistry; Frontiers, special issue 'Mitophagy in Health and Disease' with [Link](#)*)

Total **11** publication in the media (newspapers/science magazines, radio, TV etc)

Citations:4946, h-index 36, i10-index 67 (Source: google scholar by 09th Feb. 2021)

Representative publications (#first author, *corresponding author)

1. **Fang EF**[#], Scheibye-Knudsen M[#], Brace L, Kassahun H, SenGupta T, Nilsen H, Mitchell JR, Croteau DL, Bohr VA^{*}. Defective Mitophagy in XPA via PARP1 hyperactivation and NAD⁺/SIRT1 reduction, **Cell**, 2014, 157(4): 882-896.

- *This paper offers first evidence that compromised mitophagy exacerbates accelerated aging*

2. **Fang EF**[#], Kassahun H, Croteau DL, Scheibye-Knudsen M, Marosi K, Lu H, Shamanna RA, Kalyanasundaram S, Bollineni RC, Wilson MA, Iser WB, Wollman BN, Morevati M, Li J, Kerr JS, Lu Q, Waltz TB, Tian J, Sinclair DA, Mattson MP, Nilsen H, Bohr VA^{*}. NAD⁺ replenishment improves lifespan and healthspan in Ataxia telangiectasia models via mitophagy and DNA repair, **Cell Metab**, 2016, 24(4):566-581.

- *This feature article of the issue describes NAD⁺ ameliorates premature aging through DCT-1-dependent mitophagy*

3. **Fang EF**[#], Scheibye-Knudsen M[#], Chua KF, Mattson MP, Croteau DL, Bohr VA^{#,*}. Nuclear DNA damage signalling to mitochondria in ageing, **Nat Rev Mol Cell Biol**. 2016, 17(5):308-321.

- *This paper proposes a new concept in the aging theory*

4. **Fang EF**, Ng TB. Antitumor potential and other emerging medicinal properties of natural compounds. 1st edition, **Springer**. The Netherlands, 2013 (edited book).

- *This book gives a comprehensive description on novel drug screening strategies.*

5. **Fang EF**^{#,*}, Hou Y[#], Palikaras K[#], Adriaanse BA, Kerr JS, Yang B, Lautrup S, Hasan-Olive M, Caponio D, Dan X, Croteau DL, Akbari M, Greig NH, Fladby T, Nilsen H, Cader MZ, Mattson MP, Tavernarakis N, Bohr VA^{*}. Mitophagy inhibits A β and p-Tau pathologies and cognitive deficits in experimental models of Alzheimer's disease. **Nat Neurosci**, 2019, 22(3):401-412.

- [Highlighted in Nature Reviews Drug Discovery](#) ; [News in VG](#) (the largest newspaper in Norway, 12 Feb 2019 Issue); [News in NRK, Highlighted in ALZFORUM](#) ; [University of Copenhagen](#); [National Institute on Ageing](#) ; [ScienceNordic](#); [NHI news](#); [NHI Facebook](#)

6. Lautrup S, Sinclair DA, Mattson MP, **Fang EF**^{*}. NAD⁺ in brain ageing and neurodegenerative disorders. **Cell Metab**, 2019, 30 (4): 630-655.

- [News in VG](#)

Research papers (#first author, *corresponding author)

1. **Fang EF[#]**, Wong JH, Ng TB*. Thermostable Kunitz trypsin inhibitor with cytokine inducing, antitumor and HIV-1 reverse transcriptase inhibitory activities from Korean large black soybeans, *J Biosci Bioeng*. 2010, 109(3):211-217.
2. **Fang EF[#]**, Wong JH, Lin P, Ng TB*. Biochemical and functional properties of a lectin purified from Korean large black soybeans--a cultivar of glycine max, *Protein Pept Lett*. 2010, 17(6), 690-698.
3. **Fang EF[#]**, Wong JH, Lin P, Ng TB*. Biochemical characterization of the RNA-hydrolytic activity of a pumpkin 2S albumin, *FEBS Lett*. 2010, 584(18), 4089-4096.
4. **Fang EF[#]**, Wong JH, Bah CS, Lin P, Tsao SW, Ng TB*. Bauhinia variegata var. variegata trypsin inhibitor: from isolation to potential medicinal applications, *Biochem Biophys Res Commun*. 2010, 396(4): 806-811.
5. **Fang EF[#]**, Lin P, Wong JH, Tsao SW, Ng TB*. A lectin with anti-HIV-1 reverse transcriptase, antitumor, and nitric oxide inducing activities from seeds of Phaseolus vulgaris cv. extralong autumn purple bean, *J Agric Food Chem*. 2010, 58(4), 2221-2229.
6. **Fang EF[#]**, Hassanien AA, Wong JH, Bah CS, Soliman SS, Ng TB*. Purification and modes of antifungal action by Vicia faba cv. Egypt trypsin inhibitor, *J Agric Food Chem*. 2010, 58(19), 10729-10735.
7. **Fang EF[#]**, Hassanien AA, Wong JH, Bah CS, Soliman SS, Ng TB*. Isolation of a new trypsin inhibitor from the Faba bean (Vicia faba cv. Giza 843) with potential medicinal applications, *Protein Pept Lett*. 2011, 18(1):64-72.
8. Ye XJ, Ng TB, Wu ZJ, Xie LH, **Fang EF**, Wong JH, Pan WL, Wing SS, Zhang YB. Protein from red cabbage (Brassica oleracea) seeds with antifungal, antibacterial, and anticancer activities, *J Agric Food Chem*. 2011, 59(18): 10232-8.
9. **Fang EF**, Pan WL, Wong, JH, Chan, YS, Ye XJ, Ng TB*. A new Phaseolus vulgaris lectin induces selective toxicity on human liver carcinoma Hep G2 cells, *Arch Toxicol*. 2011, 85(12): 1551-1563.
10. Bah CS, **Fang EF**, Ng TB, Mros S, McConnell M, Bekhit Ael D. Purification and characterization of a rhamnose-binding chinook salmon roe lectin with antiproliferative activity toward tumor cells and nitric oxide-inducing activity toward murine macrophages, *J Agric Food Chem*. 2011, 59(10), 5720-5728.
11. Wong JH, Ip DC, Ng TB, Chan YS, **Fang EF**, Pan WL. A defensin-like peptide from Phaseolus vulgaris cv. 'King Pole Bean', *Food Chem*. 2012, 135(2): 408-14.
12. **Fang EF[#]**, Zhang CZ, Zhang L, Wong JH, Chan YS, Pan WL, Dan XL, Yin CM, Cho CH, Ng TB. Trichosanthin inhibits breast cancer cell proliferation in both cell lines and nude mice by promotion of apoptosis, *Plos One*. 2012, 7(9): e41592.
13. **Fang EF[#]**, Zhang, C. Z., Zhang, L., Fong, W. P. & Ng, T. B*. *In vitro* and *in vivo* anticarcinogenic effects of RNase MC2, a ribonuclease isolated from dietary bitter melon, toward human liver cancer cells, *Int J Biochem Cell Biol*. 2012, 44(8): 1351-1360.
14. **Fang EF[#]**, Zhang CZ, Wong JH, Shen JY, Li CH, Ng TB*. The MAP30 protein from bitter melon (Momordica charantia) seeds promotes apoptosis in liver cancer cells in vitro and in vivo, *Cancer Lett*. 2012, 324(1): 66-74.
15. **Fang EF[#]**, Zhang CZ, Ng TB*, Wong JH, Pan WL, Ye XJ, Chan YS, Fong WP. Momordica Charantia lectin, a type II ribosome inactivating protein, exhibits antitumor activity toward human nasopharyngeal carcinoma cells in vitro and in vivo, *Cancer Prev Res (Phila)*. 2012, 5: 109-21.

16. **Fang EF[#]**, Zhang, C. Z., Fong, W. P. & Ng, T. B*. RNase MC2: a new *Momordica charantia* ribonuclease that induces apoptosis in breast cancer cells associated with activation of MAPKs and induction of caspase pathways, ***Apoptosis***. 2012, 17(4): 377-387.
17. **Fang EF[#]**, Bah, C. S., Wong, J. H., Pan, W. L., Chan, Y. S., Ye, X. J. & Ng, T. B. A potential human hepatocellular carcinoma inhibitor from *Bauhinia purpurea* L. seeds: from purification to mechanism exploration, ***Arch Toxicol***. 2012, 86(2): 293-304.
18. Chan, Y. S., Wong, J. H., **Fang EF**, Pan, W. L. & Ng, T. B*. An antifungal peptide from *Phaseolus vulgaris* cv. brown kidney bean, ***Acta Biochim Biophys Sin (Shanghai)***. 2012, 44(4): 307-15.
19. Chan, Y. S., Wong, J. H., **Fang EF**, Pan, W. & Ng, T. B*. Isolation of a glucosamine binding leguminous lectin with mitogenic activity towards splenocytes and anti-proliferative activity towards tumor cells, ***Plos One***. 2012, 7(6): e38961.
20. Pan, W. L., Wong, J. H., **Fang EF**, Chan, Y. S., Ye, X. J. & Ng, T. B*. Differential inhibitory potencies and mechanisms of the type I ribosome inactivating protein marmorin on estrogen receptor (ER)-positive and ER-negative breast cancer cells, ***Biochim Biophys Acta***. 2013, 1833(5), 987-996.
21. Chan, Y. S., Wong, J. H., **Fang EF**, Pan, W. & Ng, T. B*. A hemagglutinin from northeast red beans with immunomodulatory activity and anti-proliferative and apoptosis-inducing activities toward tumor cells, ***Protein Pept Lett***. 2013, 20(10): 1159-69.
22. Pan W.L., Wong J.H., **Fang EF**, Chan Y.S., Ng T.B*, Cheung R.C. Preferential cytotoxicity of the type I ribosome inactivating protein alpha-momorcharin on human nasopharyngeal carcinoma cells under normoxia and hypoxia. ***Biochem Pharmacol***. 2014, 89 (3): 329-339.
23. Lu H., **Fang EF**, Sykora P., Kulikowicz T., Zhang Y., Becker K., Croteau D., Bohr VA*. Senescence induced by Recq14 dysfunction contributes to Rothmund-Thomson syndrome features in mice. ***Cell Death Dis***, 2014, 15;5:e1226. doi: 10.1038/cddis.2014.168.
24. Guan, S. Z., Liu, J. W., **Fang EF**, Ng TB*, Lian, Y. L. & Ge, H. Chronic unpredictable mild stress impairs erythrocyte immune function and changes T-lymphocyte subsets in a rat model of stress-induced depression, ***Environ Toxicol Pharmacol***. 2014, 37(1), 414-22.
25. **Fang EF[#]**, Scheibye-Knudsen, M[#], Brace, L., Kassahun, H., SenGupta, T., Nilsen, H., Mitchell, J. R., Croteau, D. L. & Bohr VA*. Defective mitophagy in XPA via PARP1 hyperactivation and NAD⁺/SIRT1 reduction, ***Cell***. 2014, 157(4): 882-96.
26. Li X[#], **Fang EF[#]**, Scheibye-Knudsen M., Cui H., Lu Q., Yang J., Li J., Bohr V.A., Ng T.B., Guo H*. Di-(2-ethylhexyl) phthalate inhibits DNA replication leading to hyperPARylation, SIRT1 attenuation, and mitochondrial dysfunction in the testis. ***Sci Rep***. 2014, doi: 10.1038/srep06434.
27. Zhang CZ, **Fang EF**, Zhang, H.T., Liu, L.L., Yun JP*. *Momordica Charantia* lectin exhibits antitumor activity towards hepatocellular carcinoma, ***Invest New Drugs***. 2015, 33 (1):1-11.
28. Scheibye-Knudsen M[#], Mitchell S.J., **Fang EF**, Iyama T., Ward T, Wang J., Dunn C.A., Singh N., Veith S., Hasan M., Mangerich A., Wilson M., Bergersen L.H., Cogger V.C., Warren A., Le Couteur D.G., Moaddel R., Wilson D.M. 3rd, Croteau D.L., de Cabo R*, Bohr VA*. Ketones and NAD⁺ Rescue Premature Aging in Cockayne Syndrome. ***Cell Metab***. 2014, 20 (5): 840-55.
29. Sykora P, Misiak M, Wang Y, Ghosh S, Leandro GS, Liu D, Tian J, Baptiste BA, Cong W, Brennerman BM, **Fang EF**, Becker KG, Hamilton RJ, Chigurupati S, Zhang Y, Egan JM, Croteau DL, Wilson DM 3rd, Mattson MP, Bohr VA*. DNA polymerase β deficiency leads to neurodegeneration and exacerbates Alzheimer disease phenotypes. ***Nucleic Acids Res***. 2015, 43(2):943-959.

30. Dan Xi, Wong JH, **Fang EF**, Chan FWC, Ng TB*. Purification and characterization of a novel hemagglutinin with inhibitory activity toward osteocarcinoma cells from Northeast China Black Beans. **J Agric Food Chem**. 2015, 63(15):3903-14.
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Edited books/Journal special issues

1. **Fang EF**, Ng T.B. Antitumor potential and other emerging medicinal properties of natural compounds. First edition, Springer. The Netherlands, 2013. (Total 27 chapters, and contributed 7 chapters).

2. Co-Guest editor, special issue "Lectins" for *Molecules*.
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3. Co-Editor (with Nektarios Tavernarakis and Konstantinos Palirakas): *Frontiers, special issue 'Mitophagy in Health and Disease' with 9 articles collected*. [Link](#)

Book Chapters

1-6. Ng TB, Lam SK, Cheung RCF, Wong JH, Wang HX, Ngai PHK, Ye XJ, **Fang EF**, Chan YS. Six chapters in: Nuts and seeds in health and disease prevention, 2011. Edited by Victor R. Preedy, Ronald Ross Watson and Vinood B. Patel. First edition. Academic press. Six chapters. a) Chapter 33, p279-284. Therapeutic use of caper (*Capparis spinosa*) seeds. b) Chapter 38, p317-323: Antiproliferative activities of Chinese cabbage (*Brassica parachinensis*) seeds. c) Chapter 41, p345-349: Antifungal and mitogenic activities of cluster pepper (*Capsicum frutescens*) seeds. d) Chapter 102, p865-871: Antifungal protein from passion fruit (*Passiflora edulis*) seeds. e) Chapter 127, p1073-1077: Antifungal and antiproliferative activity of Spotted bean (*Phaseolus vulgaris* cv.) f) Chapter 137, p1159-1163: White cabbage (*Brassica chinensis*) seeds and their health promoting activities.

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Patents

01. Restoration of defective mitophagy in Alzheimer's disease (DOFI 19030 by inven2, in developing)

Publication in the media (newspapers/science magazines, radio, TV etc)

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02. A news report by **VG**, one of the largest newspapers in Norway, on healthy longevity and NAD⁺.
03. An interviewed by **NHI.NO** on NAD⁺ and Alzheimer's disease
04. An interview by **VG** on a potential therapeutic strategy for Alzheimer's disease
05. An interview by **Dagbladet** on sleeping and Alzheimer's disease
06. News releases on the **Rosa sløyfe Award** by **KREFTFORENINGEN** and **UiO**.
07. 2019.09.05 Interviewed by **Forskning.no** on a recently reported blood test for AD. [Link](#)
08. 2019.09 Interviewed by **forskning.no** to give comments on a new diagnostic method of AD: [Link](#)
09. 2019.09.28 Interviewed by **VG** on NAD⁺ and Alzheimer's disease (with postdoc Dr. Sofie Lautrup) ([Download](#))
10. 2019.09.29 Interviewed by **Vi.NO** on how early on-set Alzheimer's disease affects the individual's health, family, and social lives. [Link](#).
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17. 2020.05.01 Interviewed by **VG** on David Sinclair's new book. [Download](#)
18. 2020.06.03 Interviewed by **Romerikes Blad** (cover story): [Download](#)
19. 2020.06.06 Report in **Glåmdalen** (highlighted title 'Håper på en kur mot Alzheimer i løpet av fem år'): [download](#); page 2 [download](#) (thanks J Storm-Mathisen)
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21. 2020.06. 08 Comments to Prof. Jens Pahnke's publication on training and memory in the AD mice (UNIFORM). [Link](#)
22. 2020.07.01 Interviewed by UiO Life:Science [Link](#)
23. 2020.08.06 Interviewed by **VG** on the new study of using P-Tau217 as a new biomarker for Alzheimer's disease [Link](#)

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