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

Updated 08th March 2020

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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 (courtesy, no remuneration, all approved by UiO)

2018.08~2023.07	Visiting Professor, Sun Yat-sen University Medical School/The First Affiliated Hospital, China (特傋教授, 中山大學中山醫學院/第一附院)
2018.07~2021.06	Guest Professor, Jinan University, China
2019.01~2022.01	Visiting Professor, Department of Clinical Gerontology, The First Affiliated Hospital, Zhengzhou University, China

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)

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, 上海交通大學), China.
2019	Rosa sløyfe Award, Norwegian Cancer Society
2019	2019.10.09: Visiting Outstanding Scholar Lecture, The key Laboratory of Public Health safely of Ministry of Education, Fudan University, Shanghai, China
2019	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

Professional Service

Association

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)

Grant Review

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 Kong Special Administrative Region (HKSAR), Hong Kong
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

Editorial Boards

2014	Co-Guest editor, special issue "*Lectins*" for ***Molecules*** https://www.mdpi.com/journal/molecules/special_issues/lectins
2015-present	Editorial Board member, ***Molecules***
2015-present	Review editor: ***Pharmacology of Anti-Cancer Drugs***
2016	Guest editor, special issue "*Mitochondrial Health to ageing and possible therapeutic strategies*", ***Current Medicinal Chemistry***

2018-present	Editorial Board Member: ***Translational Medicine of Aging*** (the official journal of the Asian Society for Aging Research)
2018-present	Editorial Board Member: ***Ageing Research Reviews*** (IF^{2018}: 10)
2018-present	Founding editor, NO-Age website (www.noage100.com)
2019-present	Editorial Board Member: ***Current Alzheimer Research*** (https://currentalzheimerresearch.net/editorial-board.php)

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

A: Autophagy (#3); Ageing research reviews (#1); Aging Cell (2019.08~, #1); Ageing (2019.12~#1);

B: BBA-General Subjects (#1); Biological Psychiatry (#1); Biogerontology (2019.01~, #2); Biological Sciences (#1); Biomolecules (#1).

C: Cell Metabolism (#1); Cancer Letters (#1); Cytotechnology (2020.01~, #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).

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

J: Journal of Neuroscience (#1); 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 (#1); Molecules (#1); Mini-Reviews in Medicinal Chemistry (#1); Molecular Neurodegeneration (2019.05 ~, #2).

N: Nature Communications (2019.12~, #2): Neuroscience Letters (2019.06~, #1).

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

P: Protein and Peptide Letters (#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~, #1); Toxicology Letters (#1); Toxins (#1).

and others.

Teaching and Mentoring

Teaching experience (S, scheduled)

2010-2011	Teaching assistant (biochemistry) for MBBS students, CUHK, HK
2014-2017	*C. elegans* 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)
2020S	Lecture in course MED3053: Nevrodegenerativ sykdom - biokjemi og cellebiologi, UiO (lead by Prof. Anne Simonsen)
2020S	Ph.D. course Lecture MFS9135: Biomarkers in clinical research, UiO (Led by Prof. Lars Eide)

As an examiner for Ph.D. dissertation (S, scheduled)

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)
2019.05S	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
2019.06.21S	External examiner for a master student Katrine Sjaastad Hanssen at Kavli Institute for Systems Neuroscience, NTNU (mentors: Asgeir Kobro-Flatmoen and Ioanna Sandvig)

Mentoring (co-mentoring)

At the Chinese University of Hong Kong

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

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
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

2017.11-2018.07 Domenica Caponio, Ph.D candidate, short-term exchange student

2018.01-present Dr. Mahdi Hasan-Olive, postdoc fellow

2018.02-present Dr. Aman Yahyah, postdoc fellow

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)

2018.09-present Dr. Guofeng Lou, postdoc fellow

2018.10-present Dr. Sofie H. Lautrup, postdoc fellow

- Awardee, 2019 Keystone Symposia scholarship
- Awardee, best oral talk in the BSCC – Fifth Annual Meeting 2019

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)

2019.09-present Dr. Chenglong XIE, postdoc fellow (Wenzhou Medical University, China)

2019.11-present Dr. Maria Jose Donate Lagartos, postdoc fellow

2020.02-2020.08 Dr. Rui-Yu Han, visiting scholar (HE BEI REPRODUCTIVE MEDICINE CENTER, http://www.hbjsky.org.cn/)

2020.02-2021.02 Ms. Shuqin Cao, visiting Ph.D. student (Chulalongkorn University, Thailand)

Mentoring Master/Ph.D students (at UiO)

2019.12-2021.01 Master student Mr. Ruben Gudmundsrud

2020.03-2021.03 Master student Mr. Tarjei Hartmann Skjånes

Meeting Organization (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

2020.05.28 to 2020.06.03S (two meetings)	Organizer (Chair): The Nordic Centre Biennial Meeting (Shanghai 28-29 May 2020) *cum* The 1st International Symposium of the Hong Kong-Nordic Research Network On Global ageing and related healthcare challenges (Hong Kong 01-02 June 2020)

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

List details: https://evandrofanglab.com/guest-speakers/

2017.11.09	Prof. David Rubinsztein (University of Cambridge) on 'Autophagy and 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
2020.04.15S	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.
2020.04.24S	The NO-Age and NO-AD Seminar Series 003, 'Blood Proteomic Biomarkers for Alzheimer's Disease', Dr. Liu Shi, University of Oxford, UK
2020.06.09S	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.
2020.11.10S	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

Conferences/Meetings

Invited Talks

At the National Institute on Aging

2013. 10	The 3rd 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	Søknadsseminar, 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 1st Affiliated Hospital, Sun Yat-sen University (中山大學)
2019.09.05	The Hanzhou National day & the 2nd 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 5th Annual Meeting 2019, Norway
2019.10.09	Visiting Outstanding Scholar Lecture, The key Laboratory of Public Health safely 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 4th 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 (C)	GRC Autophagy meeting (cancelled due to COVID-19)
2020.03.13 (C)	Institute for Memory Impairments and Neurological Disorders (UCI MIND),

	University of California, Irvine (host: Gregory Brewer), USA (cancelled due to COVID-19))
2020.04.28S	SPIN (Signal Processing in neurons), Innsbruck (Host: Larissa Traxler / Jerome Mertens), Austria.
2020.05.28-29S	The Nordic Centre Biennial Meeting (Shanghai 28-29 May 2020)
2020.06.01-03S	The 1st International Symposium of the Hong Kong-Nordic Research Network On Global ageing and related healthcare challenges, CUHK, Hong Kong
2020-09-24-25S	The 2nd symposium on cellular coenzymes, Bergen, Norway. Organizer : International Association of Cellular Coenzymes, IACC

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-Dubrovnki, Croatia

Clinical trials

2016.11	Key participant, Clinical trial of NR on Cockayne Syndrome in the USA (Leader Vilhelm 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)

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, NOK 7,742,000 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, NOK 8,000,000 Project: Roles of compromised mitophagy in Alzheimer's Disease Project No: 262175 PI/Project Manager: Evandro F. Fang
2019-2021	Sponsor: Akershus University Hospital, NOK 3,000,000 Project: Mechanisms of defective mitophagy machinery in Alzhaimer's Disease (Score 9.9/10) 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, NOK 5,000,000 Project: Prevention of treatment-induced cardiotoxicity in breast cancer 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», 65 000 NOK 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, NOK 300,000 PI/Project Manager: Evandro F. Fang (major co-PI Prof. Menno Witter)
2020-2023	Sponsor: HELSE SøR-ØST, NOK 8,285,000 Project: Turning up NAD+-induced mitophagy to treat Alzheimer's disease Project No: Project No: 2020001 PI/Project Manager: Evandro F. Fang

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)

Publications

Summary

Total **41** peer-reviewed research articles (**21** as first/co-first author; **2** as corresponding author)
Total **37** reviews/editorials (**14** as first author, **17** as corresponding author)
Total **20** book chapters (**8** as first/co-first/corresponding author)
Total **1** edited book (*Springer*)
Total **3** edited Journal special issues (*Molecules; Current Medicinal Chemistry; Frontiers, special issue 'Mitophagy in Health and Disease' with Link*)
Total **6** publication in the media (newspapers/science magazines, radio, TV etc)

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 Aβ 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 gourd, 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 gourd (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 Recql4 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 lecitn 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, Brenerman 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.

31. **Fang EF**, Ng TB*. A trypsin inhibitor from rambutan seeds with antitumor, anti-HIV-1 reverse transcriptase, and nitric oxide-inducing properties. ***Appl Biochem Biotechnol***. 2015, 175(8):3828-39.

32. Zhang L, Wu WKK, Gallo RL, **Fang EF**, Wei Hu, Ling TKW, Shen J, Chan RLY, Lu L, Luo XM, Li MX, Chan KM, Yu J, Wong VWS, Ng SC, Wong SH, Chan FKL, Sung JJY, Chan MTV, Cho CH*. Critical role of antimicrobial peptide Cathelicidin for controlling Helicobacter pylori survival and infection. ***J Immunol.*** 2016, 196(4): 1799-1809.

33. Mitchell SJ, Matute JM, Scheibye-Knudsen M, **Fang EF**, Aon M, González-Reyes JA, Cortassa S, Kaushik S, Gonzalez-Freire M, Patel B, Wahl D, Ali A, Calvo-Rubio M, Burón MI, Guiterrez V, Ward TM, Palacios HH, Cai H, Frederick DW, Hine C, Broeskamp F, Habering L, Dawson J, Beasley TM, Wan J, Ikeno Y, Hubbard G, Becker KG, Zhang Y, Bohr VA, Longo DL, Navas P, Ferrucci L, Sinclair DA, Cohen P, Egan JM, Mitchell JR, Baur JA, Allison DB, Anson RM, Villalba JM, Madeo F, Cuervo AM, Pearson KJ, Ingram DK, Bernier M, de Cabo R*. Effects of sex, strain, and energy intake on hallmarks of aging in mice. ***Cell Metab.*** 2016, 23(6): 1093-112.

34. **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, 11;24(4):566-581.

35. Misiak M[#], Greeno RV, Baptiste BA, Sykora P, Liu D, Cordonnier S, **Fang EF**, Croteau DL, Mattson MP, Bohr VA*. DNA polymerase β decrement triggers death of olfactory bulb cells and impairs olfaction in a mouse model of Alzheimer's disease. ***Aging Cell***, 2016, 16(1):162-172.

36. Scheibye-Knudsen M[#], Tseng AHH, Jensen MB, Scheibye-Alsing K, **Fang EF**, Iyama T, Bharti SK, Marosi K, Froetscher L, Kassahun H, Eckley DM, Maul R, Bastian P, De S, Ghosh S, Nilsen H, Goldberg I, Mattson MP, Wilson D III, Brosh RM, Gorospe M, Bohr VA*. CSA and CSB converge on transcription-linked resolution of Non-B DNA. ***Proc Natl Acad Sci U S A***. 2016, 112(44):12502-12507.

37. **Fang EF**, et al. Tomatidine enhances lifespan and healthspan in *C. elegans* through mitophagy induction via the SKN-1/Nrf2 pathway. ***Sci Rep***. 2017, 11;7:46208. doi: 10.1038/srep46208.

38. **Fang EF**, Palikaras K, Sun N, Fivenson EM, Spangler RD, Kerr JS, Cordonnier SA, Hou Y, Dombi E, Kassahun H, Tavernarakis N, Poulton J, Nilsen H, Bohr VA*. *In Vitro* and *In Vivo* Detection of Mitophagy in Human Cells, *C. elegans*, and Mice, ***J Vis Exp***. 2017, 22(129).

39. Mitchell SJ, Bernier M, Aon MA, Cortassa S, Kim EY, **Fang EF**, Palacios HH, Ali A, Navas-Enamorado I, Di Francesco A, Kaiser TA, Waltz TB, Zhang N, Ellis JL, Elliott PJ, Frederick DW, Bohr VA, Schmidt MS, Brenner C, Sinclair DA, Sauve AA, Baur JA, de Cabo R*. Nicotinamide improves aspects of healthspan, but not lifespan, in mice. ***Cell Metab***. 2018, 27(3):667-676.

40. **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 Aβ and p-Tau pathologies and cognitive deficits in experimental models of Alzheimer's disease. ***Nat Neurosci.*** 2019, 22(3):401-412.

41. **Fang EF**[#,*], Hou Y[#], Lautrup S[#], Jensen MB, Yang B, SenGupta T, Caponio D, Khezri R, Demarest TG, Aman Y, Figueroa D, Morevati M, Lee HJ, Kato H, Kassahun H, Lee JH, Filippelli D, Okur MZ, Mangerich A, Croteau DL, Maezawa Y, Lyssiotis CA, Tao J, Yokote K, Rusten TE, Mattson MP, Jasper H, Nilsen H, Bohr VA*. ***Nat Commun***, 2019.

News

- University of Copenhagen
- DR (Danish Newspaper)
- Fight Aging
- Forskning.no
- University of Oslo

Reviews/Editorials ([#]first author, [*]corresponding author)

1. Wong, J. H., Ng, T. B*, Cheung, R. C., Ye, X. J., Wang, H. X., Lam, S. K., Lin, P., Chan, Y. S., **Fang EF**, Ngai, P. H., Xia, L. X., Ye, X. Y., Jiang, Y. & Liu, F. Proteins with antifungal properties and other medicinal applications from plants and mushrooms, ***Appl Microbiol Biotechnol***. 2010, 87(4):1221-1235.

2. **Fang EF**[#], Ng TB*. Can bitter gourd (Momordica charantia) be a novel therapy for human cancers?, ***Medicinal and Aromatic Plants***. 2011, 1(1):1-2.

3. **Fang EF**[#], Ng TB.* Bitter gourd (Momordica charantia) is a cornucopia of health: a review of its credited antidiabetic, anti-HIV, and antitumor properties, ***Curr Mol Med***. 2011, 11(5): 417-436.

4. **Fang EF**[#], Scheibye-Knudsen M, Bohr VA, Ng TB*. The anti-aging efficacy of natural Compounds, ***Medicinal and Aromatic Plants***. 2012, 1(1), 1-2.

5. Ng TB*, Ye XJ, Wong JH, **Fang EF**, Chan YS, Pan W, Ye XY, Sze SC, Zhang KY, Liu F, Wang HX. Glyceollin, a soybean phytoalexin with medicinal properties, ***Appl Microbiol Biotechnol***. 2011, 90(1): 59-68.

6. Ng TB*, Wong JH, **Fang EF**. Defensins and other biocidal proteins from bean seeds with medicinal activities, ***Curr Med Chem***. 2011, 18(36), 5644-5654.

7. **Fang EF**[#], Ng TB*, Shaw PC, Wong RN. Recent progress in medicinal investigations on trichosanthin and other ribosome inactivating proteins from the plant genus Trichosanthes, ***Curr Med Chem***. 18(28), 4410-4417.

8. **Fang EF**[#], Ng TB*. Ribonucleases of different origins with a wide spectrum of medicinal applications, ***Biochim Biophys Acta***. 2011, 1815(1): 65-74.

9. Ng TB[#,] *, Cheung RC, Ye X, **Fang EF**, etc, Pharmacotherapy approaches to antifungal prophylaxis, ***Expert Opin Pharmacother***. 2012, 13(12):1695-1705.

10. **Fang EF**[#], Leung HH, Fang Y, Ng TB*. The health benefits of soybeans and Bowman-Birk inhibitor concentrate, ***Medicinal and Aromatic Plants***. 2012, 1.

11. Cheung RC, Wong JH, Pan WL, Chan YS, Yin CM, Dan XL, Wang HX, **Fang EF**, Lam SK, Ngai PH, Xia LX, Liu F, Ye XY, Zhang GQ, Liu QH, Sha O, Lin P, Ki C, Bekhit AA, Bekhit AE, Wan DC, Ye XJ, Xia J, Ng TB*. Antifungal and antiviral products of marine organisms, ***Appl Microbiol Biotechnol***. 2014, 98(8):3475-3494.

12. Scheibye-Knudsen M[#], **Fang EF**[#], Croteau DL, & Bohr VA*. Contribution of defective mitophagy to the neurodegeneration phenotypes of DNA repair-deficient disorders. ***Autophagy***. 2014, 10(8):1468-1469.

13. Tan FCC, Ng TB, **Fang EF***. The importance of recent advances in liquid chromatography techniques to the biomedical field. ***Austin Chromatography***, 2014, 1, 1-2.

14. Scheibye-Knudsen M, **Fang EF**, Croteau DL, Wilson DM 3rd, Bohr VA*. Protecting the mitochondrial powerhouse. ***Trends Cell Biol***. 2015, 25(3):158-170.

15. Ng TB, Cheung RCF, Ng WCC, **Fang EF**, Wong JH*. A review of fish lectins. ***Curr Protein Pept Sci***. 2015, 16(4):337-351.

16. **Fang EF**[#], Wollman BN, Kassahun H, Nilsen H, Scheibye-Knudsen M, Bohr VA*. Nuclear DNA Repair proteins in mitochondrial health and aging. ***Jour of Gerontology and Geriatric Medicine***: 2015, 1:001.

17. **Fang EF**[#], Scheibye-Knudsen M, Jahn H, Li J, Ling L, Guo H, Zhu X, Preedy V, Lu H, Bohr VA, Chan WY, Liu Y*, Ng TB*. A research agenda for aging in China in the 21st century. ***Ageing Res Rev***. 2015, 24(Pt B):197-205.

18. Maynard S, **Fang EF**, Scheibye-Knudsen M, Croteau DL, Bohr VA*. DNA damage, DNA repair, aging and neurodegeneration. ***Cold Spring Harb Perspect Med***. 2015, 5(10): pii: a025130.

19. **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 Bio***. 2016, 17(5):308-321.

20. Waltz TB, Fivenson EM, Li C, Bohr VA, **Fang EF***. Sarcopenia, aging and prospective interventional strategies. ***Current Medicinal Chemistry***. 2018, 25(40):5588-5596.

21. **Fang EF**[#,]*****, Bohr VA*****. NAD^+, the convergence of DNA repair and mitophagy. ***Autophagy***. 2017, 13(2):442-443.

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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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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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01. Gudmundsrud R, Lautrup S, Nilsen H, Bohr VA, **Fang EF***. Mitofagi i nevrodegenerasjon og aldring. **BestPractice**, 2018. Link: https://bestprac.no/mitofagi-i-nevrodegenerasjon-og-aldring/
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 Interviewed by **forskning.no** to give comments on a new diagnostic method of AD: Link
08. 2019.09.28 Interviewed by **VG** on NAD^+ and Alzheimer's disease (with postdoc Dr. Sofie Lautrup) (Download)
09. 2019.09.29 Interview by **Vi.NO** on how early on-set Alzheimer's disease affects the individual's health, family, and social lives. Link.
10. 2019.09.30 Interview by **Vi.NO** on how the use of blood to detect Alzheimer's disease. Link.

11. 2019.09.07: NO-Age Interview Series to Prof. George M. Martin from U. of Washington. Link.
12. 2019.09.09: NO-Age Interview Series to Asso. Prof. Aasta Marie Bjorvand Bjørkøy from UiO. Link.
13. 2019.11.07: Interviewed by **ScienceNews** (Independent journalism science 1921) on mitochondria quality and ALS. Link.
14. 2019.12.02. Nordic Centre Newsletter Autumn 2019. Link.
15. 2020.01.17: a news on the study to use NAD+ to treat premature aging in Forskning.no and University of Oslo

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