

# Curriculum vitae for Kaare Christensen

## Date of birth

1959, in Denmark

## Education

MD, Odense University, Denmark, 1987

PhD, Faculty of Health Sciences, Odense University, Denmark, 1994

DMSc, University of Southern Denmark, 1999

## Employment

Professor of Epidemiology, University of Southern Denmark, 2002-

Senior Research Scientist (part time), Sanford Institute, Duke University, USA, 1999-2019

Consultant (part time), Department of Clinical Genetics and Department of

Clinical Biochemistry and Pharmacology, Odense University Hospital, Denmark, 2010-

## Professional affiliations

Head of Research, the Unit of Epidemiology, Biostatistics and Biodemography, affiliations University of Southern Denmark, 2013-

Director of the Danish Aging Research Center, 2008-

Director of the Danish Twin Registry, 2007-

Head of Research, Epidemiology Section, University of Southern Denmark, 1998-2013

Member of Det Frie Forskningsråd|Sundhed og Sygdom [The Danish Council for Independent Research|Medical Sciences], 2013-2019

Member of the Joint Committee of the Nordic Medical Research Councils, 2015-2019

Chair of the Advisory Committee of the Danish National Institute of Public Health, 2017-

Chairman of the University Council, University of Southern Denmark, 2018-2020

Member of the Royal Danish Academy of Sciences and Letters, 2018-

Member of the Novo Nordisk Foundation Committee for Clinical and Translation Medical Science (KTL), 2019-

Member of the Scientific Monitoring Board of the Survey of Health, Ageing and Retirement in Europe (SHARE), 2020

Member of the Researchers Panel of "Sygeforsikringen Danmark Donationer", 2021-2022 Member of the International Scientific Advisory Board of the Gerontology Research Center (GEREC), the University of Jyväskylä and Tampere University in Finland, 2022-2025

Long Life Family Study representative on the National Institutes of Health ELITE Steering Committee, 2022-

Member of Vidensråd for Forebyggelse [Danish knowledge council for prevention], 2023-

Member of the Board of Directors of the Max Th. Harding Larsen's Foundation (appointed by SDU), 2023-

## Honors and awards

Desirée and Niels Yde's Award for Research, 1998

William Nielsen's Award for Research, 1999

Research award: Independent Order of Odd Fellows, 2004.

Univ. of Southern Denmark, first award for outreach and communicating research, 2005

Codan Merit Award, 2006

On behalf of the Danish Twin Registry recipient of the ethical merit award for outstanding ethical conduct of health research, 2006

The Erhoff Award for internationally acknowledged medical research, 2008

The Ida Cordelia Beam Distinguished Visiting Professorship, University of Iowa, 2010

The James Shields Memorial Award for Twin Research in Behavioural Genetics, 2010

Ridder af Dannebrogordenen [awarded the Order of Dannebrog by Her Majesty Queen Margrethe II of Denmark], 2011

Honorary award granted by "Overlæge Th.E. Hess Thaysen og hustru's Fond" (Danish Foundation) for cutting-edge, clinical research into genetic predisposition to disease, 2015

Sohlberg Nordic Prize in gerontology, 2016

Fondation IPSEN Longevity prize, 2016

Expertscape World Expert in Longevity (placed in the top 0.1% of scholars writing about Longevity over the past 10 years by Expertscape); <https://www.expertscape.com/ex/longevity>, 2020

The 44th annual Dobzhansky Award for outstanding

lifetime contributions to the field of behavior genetics, 2022

Recognized as an

## Invited lectures

Over 400 invited lectures in Europe, Asia and the USA

## Supervisor

Of 45 PhD theses (principal supervisor of 22) and assessor of 16 doctoral theses and 36 PhD theses

## Advisory roles

Served on a number of panels and study sections for the US National Academies, the US National Institutes of Health, and European National Agencies; Editorial Board Member: *Aging Cell* (2005-2022) and *Twin Research & Human Genetics* (2005-present); Review Editorial Board Member: *Frontiers in Genetics of Aging* (2011-2022).

## Reviewer of grant applications

For Norwegian, Swedish, Finnish, UK and US agencies

## Peer reviewer

For 77 journals including Science, Nature, Nature Reviews Genetics, PNAS, Lancet, BMJ, and New England Journal of Medicine

### Publications

755 scientific peer-reviewed publications 1996-2024 (of these 37 are first authorships and 202 are last authorships), 19 scientific peer-reviewed book chapters, 10 textbook chapters, three popular books.

A total of 15 international, peer-reviewed publications in 2023

### Number of articles in general and high-ranking journals 1996-2024

A total of 46 articles 1996-2024 of which 21 are first or last authorships: New England Journal of Medicine (3), Lancet (9), BMJ (10), Nature (5), Nature Genetics (5), Nature Reviews Genetics (1), JAMA (5), PNAS (3), Nature Communications (3), and Science (2).

### Citations

Web of Science: H-index: 97; total citations (without self-citations): 41,246

Google Scholar: H-index: 132; total citations: 79,019

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Publons-ID: C-2360-2009

### Selected references

Jensen TM, Pedersen JK, Waldorff FB, Søndergaard J, Overgaard S, **Christensen K**. Trends in Incidence of Hip Fracture and Hip Replacement in Denmark, 1996 to 2018. *JAMA Network Open* 2024;7(5):e249186.

Galvin A, Pedersen JK, Wojczynski MK, Ukraintseva S, Arbeev K, Feitosa M, Province MA, **Christensen K**. The protective effect of familial longevity persists after age 100: Findings from the Danish national registers. *Journals of the Gerontology, Series A, Biological Sciences and Medical Sciences* 2024;79(1):1-5.

Johansen LLE, Thinggaard M, Hallas J, Osler M, **Christensen K**. Postmenopausal hormone therapy and mortality before and after the Women's Health Initiative study. *Scientific Reports* 2023;13(1):539.

Keys MT, Thinggaard M, Larsen LA, Pedersen DA, Hallas J, **Christensen K**. Reassessing the evidence of a survival advantage in Type 2 diabetes treated with metformin compared with controls without diabetes: a retrospective cohort study. *International Journal of Epidemiology* 2022;51(6):1886-1898.

Galvin A, Feitosa M, Arbeev K, Kuipers AL, Wojczynski M, Ukraintseva S, Christensen K. Physical resilience after a diagnosis of cardiovascular disease among offspring of long-lived siblings. *European Journal of Ageing* 2021;19(3):437-445.

Mengel-From J, Lindahl-Jacobsen R, Nygaard M, Soerensen M, Ørstavik KH, Hertz JM, Andersen-Ranberg K, Tan Q, **Christensen K**. Skewness of X-chromosome inactivation increases with age and varies across birth cohorts in elderly Danish women. *Science Reports* 2021;11(1):4326.

**Christensen K**, Wojczynski MK, Pedersen JK, Larsen LA, Klojgaard S, Skytthe A, McGue M, Vaupel JW, Province MA. Mechanisms underlying familial aggregation of exceptional health and survival: a three-generation cohort study. *Ageing Cell* 2020; 19(10):e13228

Pedersen JK, Jensen TM, Waldorff FB, Søndergaard J, **Christensen K**. Use of prescription medication in the last years of life: a population-based comparison of two oldest old Danish birth cohorts born 10 years apart. *Age and Ageing* 2020;49(6):1105-1109.

Galvin A, Ukraintseva S, Arbeev K, Feitosa M, **Christensen K**. Physical robustness and resilience among long-lived female siblings: a comparison with sporadic long-livers. *Ageing (Albany NY)* 2020;12(14):15157-15168.

Tan Q, Jacobsen R, Nygaard M, Soerensen M, Mengel-From J, Christiansen L, **Christensen K**. Cohort difference in the risk of selected candidate genes on all-cause mortality at advanced ages. *American Journal of Epidemiology* 2020;189(7):708-716.

Oksuzyan A, Höhn A, Krabbe Pedersen J, Rau R, Lindahl-Jacobsen R, **Christensen K**. Preparing for the future: The changing demographic composition of hospital patients in Denmark between 2013 and 2050. *PLoS One* 2020;15(9):e0238912

Thinggaard M, Jeune B, Osler M, Vaupel JW, McGue M, **Christensen K**. Are advances in survival among the oldest old seen across the spectrum of health and functioning? *Journals of the Gerontology, Series A, Biological Sciences and Medical Sciences* 2020;75(12):2354-2360.

Pedersen DA, Larsen LA, Nygaard M, Mengel-From J, McGue M, Dalgård C, Hvidberg L, Hjelmberg J, Skytthe A, Holm NV, Kyvik KO, **Christensen K**. The Danish Twin Registry: An updated overview. *Twin Research and Human Genetics* 2019;22(6):499-507.

Dokkedal U, Wod M, Thinggaard M, Hansen TG, Rasmussen LS, Mengel-From J, **Christensen K**. No impact of surgery on cognitive function: a longitudinal study of middle-aged Danish twins. *Annals of Epidemiology* 2018; 28(2):95-101.

Osler M, Christensen GT, Garde E, Mortensen EL, **Christensen K**. Cognitive ability in young adulthood and risk of dementia in a cohort of Danish men, brothers, and twins. *Alzheimer's & Dementia* 2017; 13(12):1355-1363.

Zeng Y, Feng Q, Hesketh T, **Christensen K**, Vaupel JW. Survival, disabilities in activities of daily living, and physical and cognitive functioning among the oldest-old in China: a cohort study. *Lancet* 2017;389(10079):1619-1629.

Pedersen JK, Elo IT, Schupf N, Perls TT, Stallard E, Yashin AI, **Christensen K**. The survival of spouses marrying into longevity-enriched families. *Journals of Gerontology, Series A, Biological Sciences and Medical Sciences* 2017;72(1):109-114

Christiansen L, Lenart A, Tan Q, Vaupel JW, Aviv A, McGue M, **Christensen K**. DNA methylation age is associated with mortality in a longitudinal Danish twin study. *Ageing Cell* 2016; 15(1):149-54.

Mucci et al. Familial risk and heritability of cancer among twins in Nordic Countries. *JAMA* 2016;315(1):68-76.

**Christensen K**, Thinggaard M, Oksuzyan A, Steenstrup T, Andersen-Ranberg K, Jeune B, McGue M, Vaupel JW. Physical and cognitive functioning of people older than 90 years: a comparison of two Danish cohorts born 10 years apart. *Lancet*

2013;382(9903):1507-13.

Herskind AM, Pedersen DA, **Christensen K**. Increased prevalence of congenital heart defects in monozygotic and dizygotic twins. *Circulation* 2013; 128(11):1182-8.

**Christensen K**, Thinggaard M, McGue M, Rexbye H, Hjelmborg J, Aviv A, Gunn D, V d Ouderaa F, Vaupel JW. Perceived age as clinically useful biomarker of ageing: cohort study. *BMJ* 2009; (339): b5262.

**Christensen K**, Doblhammer G, Rau R, Vaupel JW. Ageing populations: the challenges ahead. *Lancet* 2009;374:1196-1208.

**Christensen K**, McGue M, Petersen I, Jeune B, Vaupel JW. Exceptional longevity does not result in excessive levels of disability. *Proceedings of the National Academy of Sciences* 2008; 105(36):13274-9.

**Christensen K**, Murray JC. What genome-wide association studies can do for medicine. *New England Journal of Medicine* 2007;356(11):1094-1097.

**Christensen K**, Johnson TE, Vaupel JW. The quest for genetic determinants of human longevity: challenges and insights. *Nature Reviews Genetics* 2006;7:436-448.

Vaupel JW, Carey R, **Christensen K**. It's never too late. *Science* 2003;301:1679-1681.

June, 2024