

## **PUBLICATION LIST NEAR 2019**

### **BETULA PROJECT**

- Nyberg, L., Andersson, M., Lundquist, A., Salami, A., & Wåhlin, A. (2019). Frontal Contribution to Hippocampal Hyperactivity During Memory Encoding in Aging. *Frontiers in Molecular Neuroscience*, 12. <https://doi.org/10.3389/fnmol.2019.00229>
- Nyström, M. B. T., Sörman, D. E., Kormi-Nouri, R., & Rönnlund, M. (2019). To what extent is subjective well-being in late adulthood related to subjective and objective memory functioning? Five-year cross-lagged panel analyses. *Aging & Mental Health*, 23(1), 92–99. <https://doi.org/10.1080/13607863.2017.1394439>
- Oudin, A., Andersson, J., Sundström, A., Nordin Adolfsson, A., Oudin Åström, D., Adolfsson, R., ... Nordin, M. (2019). Traffic-Related Air Pollution as a Risk Factor for Dementia: No Clear Modifying Effects of APOE  $\epsilon$ 4 in the Betula Cohort. *Journal of Alzheimer's Disease*, 1–8. <https://doi.org/10.3233/JAD-181037>
- Rönnlund, M., Del Missier, F., Mäntylä, T., & Carelli, M. G. (2019). The Fatalistic Decision Maker: Time Perspective, Working Memory, and Older Adults' Decision-Making Competence. *Frontiers in Psychology*, 10. <https://doi.org/10.3389/fpsyg.2019.02038>
- Satizabal, C. L., Adams, H. H. H., Hibar, D. P., White, C. C., Knol, M. J., Stein, J. L., ... Ikram, M. A. (2019). Genetic architecture of subcortical brain structures in 38,851 individuals. *Nature Genetics*, 51(11), 1624–1636. <https://doi.org/10.1038/s41588-019-0511-y>
- van der Meer, D., Sønderby, I. E., Kaufmann, T., Walters, G. B., Abdellaoui, A., Ames, D., ... Andreassen, O. A. (2019). Association of Copy Number Variation of the 15q11.2 BP1-BP2 Region With Cortical and Subcortical Morphology and Cognition. *JAMA Psychiatry*, 1. <https://doi.org/10.1001/jamapsychiatry.2019.3779>
- Zambianchi, M., Rönnlund, M., & Carelli, M. G. (2019). Attitudes Towards and Use of Information and Communication Technologies (ICTs) Among Older Adults in Italy and Sweden: the Influence of Cultural Context, Socio-Demographic Factors, and Time Perspective. *Journal of Cross-Cultural Gerontology*. <https://doi.org/10.1007/s10823-019-09370-y>

### **The Gothenburg H70 Birth Cohort Studies (H70, H85, H95 and PPSW)**

- Falk Erhag H, Ahlner F, Rydberg Sterner T, Skoog I,\* Bergström A. Internet use and self-rated health among Swedish 70-year-olds: a cross-sectional study. *BMC Geriatr*. 2019 Dec 23;19(1):365. <https://doi.org/10.1186/s12877-019-1392-8>. \*=Shared last author
- Samuelsson J, Rothenberg E, Lissner L, Eiben G, Zettergren A, Skoog I. Time trends in nutrient intake and dietary patterns among five birth cohorts of 70-year-olds examined 1971-2016: results from the Gothenburg H70 birth cohort studies, *Nutr J*. 2019 Nov 6;18(1):66. <https://doi.org/10.1186/s12937-019-0493-8>.

Janssen O, Vos SJB, García-Negredo G, Tochel C, Gustavsson A, Smith M, Ly A, Nelson M, Baldwin H, Sudlow C, Bexelius C, Jindra C, Vaci N, Bauermeister S, Gallacher J, Ponjoan A, Dufouil C, Garre Olmo J, Pedersen L, Skoog I, Hottgenroth A, Visser PJ, van der Lei J, Diaz C. Real-world evidence in Alzheimer's disease: The ROADMAP Data Cube. *Alzheimers Dement*. 2019 Nov 27. pii: S1552-5260(19)35487-1. <https://doi.org/10.1016/j.jalz.2019.09.087>. [Epub ahead of print]

Göthberg H, Rosenhall U, Tengstrand T, Rydberg Sterner T, Wetterberg H, Zettergren A, Skoog I\*, Sadeghi A. Cross-sectional assessment of hearing acuity of an unselected 85-year-old cohort - Including a 10-year longitudinal study of a sub-sample. *Hear Res*. 2019 Oct;382:107797. <https://doi.org/10.1016/j.heares.2019.107797>. Epub 2019 Sep 5. \*=Shared last author

De S, Whiten DR, Ruggeri FS, Hughes C, Rodrigues M, Sideris DI, Taylor CG, Aprile FA, Muyldermans S, Knowles TPJ, Vendruscolo M, Bryant C, Blennow K, Skoog I, Kern S, Zetterberg H, Klenerman D. Soluble aggregates present in cerebrospinal fluid change in size and mechanism of toxicity during Alzheimer's disease progression. *Acta Neuropathol Commun*. 2019 Jul 26;7(1):120. <https://doi.org/10.1186/s40478-019-0777-4>.

Sven J van der Lee, Olivia Conway, Iris Jansen, Minerva Carrasquillo; Luca Kleineidam; Erik van den Akker; Isabel Hernández; Kristel van Eijk; Najada Stringa; Jason Chen; Anna Zettergren; Till Andlauer; Monica Diez-Fairen; Javier Simon-Sanchez; Alberto Lleó; Henrik Zetterberg; Marianne Nygaard; Cornelis Blauwendraat; Jeanne Savage; Jonas Mengel-From; Sonia Moreno-Grau; Michael Wagner; Juan Fortea; Michael Keogh; Kaj Blennow; Ingmar Skoog; Manuel Friese; Olga Pletnikova; Miren Zulaica; Carmen Lage; Itziar de Rojas; Steffi Riedel-Heller; Ignacio Illán-Gala; Wei Wei; Bernard Jeune; Adela Orellana; Florian Then Bergh; Xue Wang; Marc Hulsman; Nina Beker; Niccolo Tesi; Christopher Morris; Begoña Indakoetxea; Lyduine Collij; Martin Scherer; Estrella Morenas-Rodríguez; James Ironside; Bart van Berckel; Daniel Alcolea; Heinz Wiendl; Samantha Strickland; Pau Pastor; Eloy Rodríguez Rodríguez; Bradley Boeve; Ronald Petersen; Tanis Ferman; Jay van Gerpen; Marcel Reinders; Ryan Uitti; Lluís Tárraga; Wolfgang Maier; Oriol Dols-Icardo; Amit Kawalia; Maria Carolina Dalmasso; Mercè Boada; Uwe Zettl; Natasja van Schoor; Marian Beekman; Mariet Allen; Eliezer Masliah; Adolfo López de Munain; Alexander Pantelyat; Zbigniew Wszolek; Owen Ross; Dennis Dickson; Neill Graff-Radford; David Knopman; Rosa Rademakers; Afina Lemstra; Yolande Pijnenburg; Philip Scheltens; Thomas Gasser; Patrick Chinnery; Bernhard Hemmer; Martijn Huisman; Juan Troncoso; Fermin Moreno; Ellen Nohr; Thorkild Sørensen; Peter Heutink; Pascual Sánchez-Juan; Danielle Posthuma; Giovanni Coppola; Jordi Clarimón; Kaare Christensen; Nilüfer Ertekin-Taner; Sonja Scholz; Alfredo Ramirez; Agustín Ruiz; Eline Slagboom; Wiesje van der Flier; Henne Holstege. A nonsynonymous mutation in PLCG2 reduces the risk of Alzheimer's disease, dementia with Lewy-bodies and frontotemporal dementia, and increases the likelihood of longevity. *Acta Neuropathol*. 2019 Aug;138(2):237-250. <https://doi.org/10.1007/s00401-019-02026-8>. Epub 2019 May 27

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Johansson L, Sacuiu S, Kern S, Guo X, Zetterberg H, Blennow K, Zettergren A, Skoog I. Longstanding psychological stress in relation to biomarkers of neuronal dysfunction in cerebrospinal fluid: a 25-year follow-up study in women. *Neurobiol Aging*. 2019 Aug;80:111-115. <https://doi.org/10.1016/j.neurobiolaging.2019.02.013>. Epub 2019 Feb 27.

Ribbe M, Kern S, Börjesson Hansson A, Östling S, Zetterberg H, Blennow K, Skoog I. Amyloid  $\beta$ 42 and Total Tau Levels in Cerebrospinal Fluid Associate with Survival in an 85-Year-Old Population-Based Cohort Followed until Death. *Dement Geriatr Cogn Disord*. 2019;47(1-2):114-124.

Fässberg MM, Vanaelst B, Jonson M, Sterner TR, Ahlner F, Wetterberg H, Rydén L, Kern S, Sigström R, Zettergren A, Skoog I\*, Waern M\*. Epidemiology of suicidal feelings in an ageing Swedish population: from old to very old age in the Gothenburg H70 Birth Cohort Studies. *Epidemiol Psychiatr Sci*. 2019 Apr 1;29:e26. <https://doi.org/10.1017/S2045796019000143>.

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Rydén L, Sigström R, Nilsson J, Sundh V, Falk Erhag H, Kern S, Waern M, Östling S, Wilhelmson K, Skoog I. Agreement between self-reports, proxy-reports and the National Patient Register regarding diagnoses of cardiovascular disorders and diabetes mellitus in a population-based sample of 80-year-olds. *Age Ageing*. 2019 Jul 1;48(4):513-518. <https://doi.org/10.1093/ageing/afz033>

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Najar J, Östling S, Gudmundsson P, Sundh V, Johansson L, Kern S, Guo X, Hällström T, Skoog I. Cognitive and Physical Activity and Dementia. A 44-year longitudinal population Study of women. *Neurology*. 2019 Mar 19;92(12):e1322-e1330

Zettergren A, Höglund K, Kern S, Thorvaldsson V, Skoog J, Hansson O, Andreasen N, Bogdanovic N, Blennow K, Skoog I, Zetterberg H. Association of IL1RAP-related genetic variation with cerebrospinal fluid concentration of Alzheimer-associated tau protein. *Sci Rep*. 2019 Feb 21;9(1):2460. <https://doi.org/10.1038/s41598-018-36650-3>.

Rydberg Sterner T\*, Ahlner F\*, Blennow K, Dahlin-Ivanoff S, Falk H, Havstam Johansson L, Hoff M, Holm M, Hörder H, Jacobsson T, Johansson B, Johansson L, Kern J, Kern S, Machado A,

Mellqvist Fässberg M, Nilsson J, Ribbe M, Rothenberg E, Rydén L, Sadeghi A, Sacuiu S, Samuelsson J, Sigström R, Skoog J, Thorvaldsson V, Waern M, Westman E, Wetterberg H, Zetterberg H, Zetterberg M, Zettergren A, Östling S, Skoog I. The Gothenburg H70 Birth Cohort Study 2014-16: design, methods and study population. *Eur J Epidemiol.* 2019 Feb;34(2):191-209

Nilsson J, Sigström R, Östling S, Waern M, Skoog I. Changes in the expression of worries, anxiety and Generalized anxiety disorder with increasing age: A population study of 70-85 year-olds. *Int J Geriatr Psychiatry.* 2019 Feb;34(2):249-257. <https://doi.org/10.1002/gps.5012>. Epub 2018 Nov 19

Skoog J, Jönsson H, Sigström R, Östling S, Falk H, Waern M, Thorvaldsson V, Skoog I, Johansson B. Do later-born birth cohorts of septuagenarians sleep better? A prospective population-based study of two birth cohorts of 70-year-olds. *Sleep.* 2019 Jan 1;42(1). <https://doi.org/10.1093/sleep/zsy204>

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Lindell E, Kollén L, Johansson M, Karlsson T, Rydén L, Zettergren A, Frändin K, Skoog I\*, Finizia C. Dizziness and its association with walking speed and falls efficacy among older men and women in an urban population. *Aging Clin Exp Res.* 2019 Sep 5. <https://doi.org/10.1007/s40520-019-01303-6>. [Epub ahead of print]

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Östling S, Bäckman K, Sigström R, Skoog I. Is the prevalence of psychosis in the very old decreasing? A comparison of 85-year-olds born 22 years apart. *Int J Geriatr Psychiatry.* 2019 Dec;34(12):1776-1783. <https://doi.org/10.1002/gps.5192>

## **Ageing in Women and Men: A Longitudinal Study of Gender Differences in Health Behaviour and Health among Elderly (GENDER), Origins of Variance in the Old-old: Octogenarian Twins (OCTO-Twin), The Screening Across the Lifespan of Twins (SATSA)**

Li, X, Ploner, A, Wang, Y, Magnusson, PK, Reynolds, CA, Finkel, D, Pedersen, NL, Jylhävä, J, & Hägg, S. Longitudinal trajectories, correlations and mortality associations of nine biological ages across 20-years follow-up. *eLife*, online 11 februari, 2020, <https://doi.org/10.7554/eLife.51507>

Jylhävä J, Jiang M, Foebel AD, Pedersen NL, Hägg S. Can markers of biological age predict dependency in old age?. *Biogerontology* 2019 20;3 321-329

Wang Y, Karlsson R, Jylhävä J, Hedman ÅK, Almqvist C, Karlsson IK, Pedersen NL, Almgren M, Hägg S. Comprehensive longitudinal study of epigenetic mutations in aging. *Clinical epigenetics* 2019 11;1 187-

Sturm G, Cardenas A, Bind MA, Horvath S, Wang S, Wang YZ, Hagg S, Hirano M, Picard M. Human aging DNA methylation signatures are conserved but accelerated in cultured fibroblasts. *EPIGENETICS* 2019 14;10 961-976

Jylhävä J, Hjelmberg J, Soerensen M, Munoz E, Tan Q, Kuja-Halkola R, Mengel-From J, Christensen K, Christiansen L, Hägg S, Pedersen NL, Reynolds CA. Longitudinal changes in the genetic and environmental influences on the epigenetic clocks across old age: Evidence from two twin cohorts. *EBioMedicine* 2019 40; 710-716

Chen R, Zhan Y, Pedersen N, Fall K, Valdimarsdóttir UA, Hägg S, Fang F. Marital status, telomere length and cardiovascular disease risk in a Swedish prospective cohort. *Heart (British Cardiac Society)* 2019 ;

Bateson M, Aviv A, Bendix L, Benetos A, Ben-Shlomo Y, Bojesen SE, Cooper C, Cooper R, Deary IJ, Hägg S, Harris SE, Kark JD, Kronenberg F, Kuh D, Labat C, Martin-Ruiz CM, Meyer C, Nordestgaard BG, Penninx BWJH, Pepper GV, Révész D, Said MA, Starr JM, Syddall H, Thomson WM, van der Harst P, Whooley M, von Zglinicki T, Willeit P, Zhan Y, Nettle D. Smoking does not accelerate leucocyte telomere attrition: a meta-analysis of 18 longitudinal cohorts. *Royal Society open science* 2019 6;6 190420-

Karlsson, I.K., Ericsson, M., Wang, Y. et al. (2019) Replicating associations between DNA methylation and body mass index in a longitudinal sample of older twins. *International Journal of Obesity*.

Konki K, Malonzo M, Karlsson IK, Lindgren N, Ghimire B, Smolander J, Scheinin NM, Ollikainen M, Laiho A, Elo LL, Lönnberg T, Röyttä M, Pedersen NL, Kaprio J, Lähdesmäki H, Rinne J, Lund RJ. (2019) Peripheral blood DNA methylation differences in twin pairs discordant for Alzheimer's disease. *Clinical Epigenetics*, 11:130

Reynolds, C. A., Tan, Q., Munoz, E., Jylhava, J., Hjelmberg, J., Christiansen, L., Hagg, S., & Pedersen, N. L. (2019). A decade of epigenetic change in aging twins: genetic and environmental contributions to longitudinal DNA methylation. *bioRxiv*, 778555. <https://doi.org/10.1101/778555>

Phillips, D.M. (2019). "Longitudinal Loneliness and Cognitive Aging in Mid and Late Life: Patterns of Associations and Epigenetic Pathways". PhD thesis defended 11-Dec-2019, UC Riverside.

Raymond, E., Reynolds, CA, Dahl Aslan, AK, Finkel, D, Ericsson, M, Hägg, S, Pedersen, NL, & Jylhävä, J. Drivers of Frailty from Adulthood into Old Age: Results from a 27-year Longitudinal Population-Based Study in Sweden. *medRxiv* 19012476; <https://doi.org/https://doi.org/10.1101/19012476>

### **Frailty, Functional Aging, multimorbidity**

Li X, Ploner A, Karlsson IK, Liu X, Magnusson PKE, Pedersen NL, Hägg S, Jylhävä J. The frailty index is a predictor of cause-specific mortality independent of familial effects from midlife onwards: a large cohort study. *BMC medicine* 2019 17;1 94-

Danielsdóttir, HB, Jylhävä, J, Hägg, S, Colodro Conde, L, Martin, NG, Pedersen, NL, Mosing, MA, Lehto, K. Neuroticism as a predictor of frailty in old age: a genetically informative approach. *Psychosom Med* 2019 Nov/Dec; 81(9): 799-807. PMID: 31469771.



Finkel, D., Sternäng, O., Jylhävä, J., Bai, G., & Pedersen, N. L. (2019). Functional aging index complements frailty in prediction of entry into care and mortality. *Journal of Gerontology: Medical Sciences*. <https://doi.org/10.1093/gerona/glz155>

Ericsson, M., Pedersen, N. L., Fors, S., Kuja-Halkola, R., Mosing, M., Li, X., Jylhävä, J., and Dahl Aslan, A. K. (under revision) Frailty and mortality: Investigating sex differences and socioeconomic influences using same-sex and opposite-sex Swedish twins.

Sisco-Taylor, B.L., Dahl Aslan, A.K., Pedersen, N.L., & Reynolds, C.A. (under revision). Illness Behaviors Mediate the Link Between Social Support Availability and Physical Functioning.

### **Cognitive aging and dementia**

Jansen IE, Savage JE, Watanabe K, Bryois J, Williams DM, Steinberg S, Sealock J, Karlsson IK, Hägg S, Athanasiu L, Voyle N, Proitsi P, Witoelar A, Stringer S, Aarsland D, Almdahl IS, Andersen F, Bergh S, Bettella F, Bjornsson S, Brækhus A, Bråthen G, de Leeuw C, Desikan RS, Djurovic S, Dumitrescu L, Fladby T, Hohman TJ, Jonsson PV, Kiddle SJ, Rongve A, Saltvedt I, Sando SB, Selbæk G, Shoai M, Skene NG, Snaedal J, Stordal E, Ulstein ID, Wang Y, White LR, Hardy J, Hjerling-Leffler J, Sullivan PF, van der Flier WM, Dobson R, Davis LK, Stefansson H, Stefansson K, Pedersen NL, Ripke S, Andreassen OA, Posthuma D. Genome-wide meta-analysis identifies new loci and functional pathways influencing Alzheimer's disease risk. *Nature genetics* 2019 51;3 404-413

Duggan, E. C., Piccinin, A. M., Clouston, S., Koval, A., Robitaille, A., Zammit, A. R., Wu, C., Brown, C. L., Lee, L., Finkel, D., Graham, R. B., Muniz Terrera, G., Katz, M., Lipton, R. B., Deeg, D., Bennett, D., Björk, M. P., Johansson, B., Spiro, A., Weuve, J., & Hofer, S. M. (2019). A Multi-Study Coordinated Meta-Analysis of Pulmonary Function and Cognition in Aging. *Journal of Gerontology: Medical Sciences*, 74, 1793-1804.

Zammit, A.R., Piccinin, A.M., Duggan, E., Koval, A., Clouston, S., Robitaille, A., Brown, C.L., Handshuh, P., Wu, C., Jarry, V., Finkel, D., Graham, R.B., Muniz-Terrera, G., Praetorius Björk, M., Bennett, D., Deeg, D.J., Johansson, B., Katz, M.J., Kaye, J., Lipton, R.B., Martin, M., Pedersen, N., Spiro, A., Zimprich, D., Hofer, S.M. (2019). A coordinated multi-study analysis of the longitudinal association between grip strength and cognitive function in older adults. *Journal of Gerontology: Psychological Sciences*. <https://doi.org/10.1093/geronb/gbz072>

Finkel, D., Ernsth Bravell, M., & Pedersen, N. L. (in press). Role of motor function and lung function in pathways to aging and decline. *Aging Clinical and Experimental Research*. <https://doi.org/10.1007/s40520-020-01494-3>.

Tomata, Y., Li, X., Karlsson, I.K., Mosing, M.A., Pedersen, N.L. & Hägg, S. (2nd revision) Joint impact of common risk factors on incident dementia: A cohort study of the Swedish Twin Registry *Journal of Internal Medicine*.

### **Published AAIC abstract:**

Karlsson, I., Escott-Price, V., Gatz, M., Hardy, J., Pedersen, N. L., Shoai, M., & Reynolds, C. A. (2019). Measuring heritable contributions to ad: polygenic risk score analysis in biometric, SNP-

based and AUC models in twins. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, 15(7), P1307. [[https://aanddjournal.net/article/S1552-5260\(19\)33895-6/fulltext](https://aanddjournal.net/article/S1552-5260(19)33895-6/fulltext)]

### **Body fat changes in relation to health and survival in late life**

Karlsson I., Ericsson M., Wang, Y., Jylhävä, J., Hagg S., Pedersen N. L., Reynolds C., Dahl Aslan A. (2019). Replicating associations between DNA methylation and body mass index in a longitudinal sample of older twins. Accepted for publication in *International Journal of Obesity*, 1-9.

Emery, C. F., Finkel, D., Gatz, M., & Dahl Aslan, A. K. (2019). Evidence of Bidirectional Associations Between Depressive Symptoms and Body Mass Among Older Adults. *The Journals of Gerontology: Series B*.

Three abstract from this theme are accepted at the 25<sup>th</sup> Nordic Congress of Gerontology, June, 2020 as a part of an symposium, and an additional abstract is submitted.

### **Loneliness, social isolation and aging**

Abdellaoui, A, Sanchez-Roige, S, Sealock, J, Treur, JL, Dennis, J, Fontanillas, P, Elson, S, The 23andme Research Team, Nivard, M, Ip, HF, van der Zee, M, Baselmans, B, Hottenga, JJ, Willemsen, G, Mosing, MA, Yi, L, Pedersen, NL, Amin, N, van Duijn, CM, Szilagyi, I, Tiemeier, H, Neumann, A, Verweij, K, Cacioppo, S, Cacioppo, JT, Davis, LK, Palmer, A, Boomsma, DI. Phenome-wide investigation of health outcomes associated with genetic predisposition to loneliness. *Human Molecular Genetics*. 2019 Nov 15; 28(22):3853-65. PMID: 31518406.

Phillips, D.M. (2019). "Longitudinal Loneliness and Cognitive Aging in Mid and Late Life: Patterns of Associations and Epigenetic Pathways". PhD thesis defended 11-Dec-2019, UC Riverside.

Sisco-Taylor, B.L., Dahl Aslan, A.K., Pedersen, N.L., & Reynolds, C.A. (under revision). "Illness Behaviors Mediate the Link Between Social Support Availability and Physical Functioning".

Associations between loneliness, social isolation and mortality in older twins: familial confounding? Mosing, MA, Dahlstrom, V, Lehto, K, Pedersen, NL, the IGEMS consortium. *Behavior Genetics*. Abstracts. 2018.

Finkel, D., & Phillips, D. (2019, May). Changes in physical and emotional health with age: What comes first? Invited address, Workshop on Longitudinal Studies in Aspects of Health in Aging, Jönköping, Sweden.

### **Late-life health outcomes associated with adverse birth characteristics**

Mosing, MA, Lundholm, C, Cnattingius, S, Gatz, M, Pedersen, NL. Associations between birth characteristics and age-related cognitive impairment and dementia: A registry based cohort study. *PLOS Medicine*. 2018 Jul 18; 15(7). PMID: 30020924.

### **Conference abstract:**

Socioeconomic influences on late-life body-Mass Index: A study of Swedish twins. M Ericsson, A K Dahl Aslan, (2018). *Innovation in Aging*, Volume 2, Issue suppl\_1, 620

### **Gene-environment (GE) Interplay**

Pedersen, NL, Gatz, M, Finch, BK, Finkel, D, Butler, DA, Dahl Aslan, A, Franz, CE, Kaprio, J, Lapham, S, McGue, M, Mosing, MA, Neiderheiser, J, Nygaard, M, Panizzon, M, Prescott, CA, Reynolds, CA, Sachdev, P, Whitfield, KE. (2019). IGEMS: The consortium on Interplay of Genes and Environment across Multiple Studies – An Update. *Twin Research and Human Genetics*. 2019 Sep 23: 1-8. PMID: 31544729.

Finkel D, Franz CE, Christensen K, Reynolds CA, Pedersen NL. Longitudinal Twin Study of Subjective Health: Differences in Genetic and Environmental Components of Variance Across Age and Sex. *J Gerontol B Psychol Sci Soc Sci*. 2020 Jan 1;75(1):1-10.  
<https://doi.org/10.1093/geronb/gby030>. PubMed PMID: 29590493; PubMed Central PMCID: PMC6909438.

Ericsson, M., Pedersen, N.L., Johansson, A.L.V., Fors, S., & Dahl-Aslan, A.K. (2019) Life-course socioeconomic differences and social mobility in preventable and non-preventable mortality: a study of Swedish twins. *Int J Epidemiol*. <https://doi.org/10.1093/ije/dyz042>

Brumpton, B., Sanderson, E., Hartwig, F. P., Harrison, S., Vie, G. Å., Cho, Y., Howe, L. D., Hughes, A., Boomsma, D. I., Havdahl, A., Hopper, J., Neale, M., Nivard, M. G., Pedersen, N. L., Reynolds, C. A., Tucker-Drob, E. M., Grotzinger, A., Howe, L., Morris, T., Li, S., Chen, W.-M., Bjørngaard, J. H., Hveem, K., Willer, C., Evans, D. M., Kaprio, J., Smith, G. D., Åsvold, B. O., Hemani, G., & Davies, N. M. (2019). Within-family studies for Mendelian randomization: avoiding dynastic, assortative mating, and population stratification biases. *bioRxiv*, 602516.  
<https://doi.org/10.1101/602516>.

Ericsson, M. (2019). Socioeconomic influences on late-life health and mortality: exploring genetic and environmental interplay. PhD thesis defended Oct 4th, 2019, Karolinska Institutet

## **The Swedish National study on Aging and Care – Blekinge (SNAC-B)**

Prevalence and Incidence of Atrial Fibrillation and Other Arrhythmias in the General Older Population: Findings from the Swedish National Study on Aging and Care. Lindberg T, Wimo A, Elmståhl S, Qiu C, Bohman DM, Sanmartin Berglund J. *Gerontol Geriatr Med*. 2019 Jun

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