

Curriculum Vitae - Ingrid Kockum

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University education	Degree	Year	Topic
Cambridge University, UK	BA (2-1 hon.)	1989	Natural Sciences (Cell and molecular biology)
Karolinska Institutet, Sweden	PhD	1995	Genetics of insulin-dependent diabetes
Karolinska Institutet, Sweden	Docent	2007	Genetics

Research experience

2019-	Director of Doctoral Education, Department of Clinical Neuroscience, Karolinska Institutet
2016-	Professor Genetic epidemiology with emphasis on Multiple Sclerosis (<i>current position</i>)
2014-	Research group leader Genetic epidemiology of Multiple Sclerosis, Department of Clinical Neuroscience, Karolinska Institutet (KI)
2006-2014*	Senior researcher: Department of Clinical Neuroscience, KI
2002-2005*	Research group leader: Department of Molecular Medicine, KI
1996, 1998-2001	Postdoctoral research fellow: Department of Molecular Medicine, KI
1997	Visiting scientist: Wellcome Trust Center for Human Genetics, Oxford University, UK.

Supervision of PhD students

Main supervisor of 8 PhD and 1 Lic students that have successfully defended their theses
Assistant supervisor of 9 PhD students that have successfully defended their theses:
Currently main supervisor of 2 PhD student
Currently assistant supervisor for 1 PhD students

Selected grants as principal investigator at Karolinska Institutet the last 5 years

Year: 2019-2021, Title: A European standardization framework for data integration and data-driven in silico models for personalized medicine (EU-STANDS4PM), project nr 825843

Funding source: Horizon2020

PI: Marc Kirchner, Forschungszentrum Jülich GmbH

Year: 2018, Title: Genetic and lifestyle data applied to disentangling Multiple Sclerosis susceptibility and prognosis in order to accelerate personalized medicine

Funding source: Åke Löwnertz Stiftelse för Neurologisk Forskning

Year: 2018-2019, Title: Genetic and lifestyle data applied to disentangling Multiple Sclerosis susceptibility and prognosis in order to accelerate personalized medicine

Funding source: ALF (county council)

Year: 2017-2021, Title: Multiple manifestations of genetic and non-genetic factors in Multiple Sclerosis disentangled with a multi-omics approach to accelerate personalised medicine (MULTIPLE-MS), project nr 733161. PI: Ingrid Kockum

10 SELECTED PUBLICATIONS- INGRID KOCKUM

Total number of peer reviewed publications 220 between 1993 and 2019. †=equal contribution

H index =41 (estimated in March 2019 in Web of Science)

Full publication list: <https://publons.com/researcher/1466694/ingrid-kockum>

1. Tengvall K, Huang J, Hellström C, Kammer P, Biström M, Ayoglu B, Lima Bomfim I, Stridh P, Butt J, Brenner N, Michel A, Lundberg K, Padyukov L, Lundberg IE, Svenungsson E, Ernberg I, Olafsson S, Dilthey AT, Hillert J, Alfredsson L, Sundström P, Nilsson P†, Waterboer T†, Olsson T†, **Kockum I†**. Anoctamin-2 and Epstein-Barr virus nuclear antigen 1 mimicry associates with multiple sclerosis Proc Natl Acad Sci U S A. 2019 Aug 2. pii: 201902623. doi: 10.1073/pnas.1902623116. PMID: 31375628
2. Lindahl H, Guerreiro-Cacais AO, Bedri SK, Linnerbauer M, Lindén M, Abdelmagid N, Tandre K, Hollins C, Irving L, Glover C, Jones C, Alfredsson L, Rönnblom L, **Kockum I**, Khademi M, Jagodic M, Olsson T. IL-22 Binding Protein Promotes the Disease Process in Multiple Sclerosis. *J Immunol*. 2019 Aug 15;203(4):888-898. doi: 10.4049/jimmunol.1900400. Epub 2019 Jul 10. PMID: 31292217
3. Burkill S, Montgomery S, **Kockum I**, Piehl F, Strid P, Hillert J, Alfredsson L, Olsson T, Bahmanyar S. The association between multiple sclerosis and pain medications. *Pain*. 2019 Feb;160(2):424-432. doi: 10.1097/j.pain.0000000000001429. PMID: 30376533
4. International Multiple Sclerosis Genetics Consortium (Mitrovic Mitja, Patsopoulos A Nikolaos, ... McCauley L Jacob, Sawcer Stephen, Oksenberg R Jorge, De Jager L Philip, **Kockum Ingrid**, Hafler A David, Cotsapas Chris, ANZgene, WTCCC2) Low frequency and rare coding variation contributes to multiple sclerosis risk Cell. 2018 Nov 29;175(6):1679-1687.e7. doi: 10.1016/j.cell.2018.09.049. Epub 2018 Oct 18. PMID: 30343897
5. Ebenesersdóttir SS, Sandoval-Velasco M, Gunnarsdóttir ED, Jagadeesan A, Guðmundsdóttir VB, Thordardóttir EL, Einarsdóttir MS, Moore KHS, Sigurðsson Á, Magnúsdóttir DN, Jónsson H, Snorrardóttir S, Hovig E, Møller P, **Kockum I**, Olsson T, Alfredsson L, Hansen TF, Werge T, Cavalleri GL, Gilbert E, Lalueza-Fox C, Walser JW 3rd, Kristjánsdóttir S, Gopalakrishnan S, Árnadóttir L, Magnússon ÓP, Gilbert MTP, Stefánsson K, Helgason A. Ancient genomes from Iceland reveal the making of a human population. *Science*. 2018 Jun 1;360(6392):1028-1032. doi: 10.1126/science.aar2625. PMID: 29853688
6. Kular L†, Liu Y†, Ruhrmann S, Zheleznyakova G, Marabita F, Gomez-Cabrero D, James T, Ewing E, Lindén M, Górnikiwicz B, Aeinehband S, Stridh P, Link J, Andlauer TFM, Gasperi C, Wiendl H, Zipp F, Gold R, Tackenberg B, Weber F, Hemmer B, Strauch K, Heilmann-Heimbach S, Rawal R, Schminke U, Schmidt CO, Kacprowski T, Franke A, Laudes M, Dilthey AT, Celius EG, Søndergaard HB, Tegnér J, Harbo HF, Oturai AB, Olafsson S, Eggertsson HP, Halldorsson BV, Hjaltason H, Olafsson E, Jonsdottir I, Stefansson K, Olsson T, Piehl F, Ekström TJ, **Kockum I†**, Feinberg AP†, Jagodic M. † DNA methylation as a mediator of HLA-DRB1*15:01 and a protective variant in multiple sclerosis. *Nat Commun*. 2018 Jun 19;9(1):2397. doi: 10.1038/s41467-018-04732-5. PMID 29921915
7. James T†, Lindén M†, Morikawa H, Fernandes SJ, Ruhrmann S, Huss M, Brandi M, Piehl F, Jagodic M, Tegnér J, Khademi M, Olsson T†, Gomez-Cabrero D†, **Kockum I†**. Impact of genetic risk loci for multiple sclerosis on expression of proximal genes in patients Hum Mol Genet. 2018 Jan 8; 27(5):912-928doi: 10.1093/hmg/ddy001. PMID: 29325110
8. Piehl F, **Kockum I**, Khademi M, Blennow K, Lycke J, Zetterberg H, Olsson T Plasma neurofilament-light chain levels in patients with MS switching from injectable therapies to fingolimod Mult Scler. 2017 Jun 1 24(8):1046-1054 PMID: 28627962
9. Goris A, Pauwels I, Gustavsen MW, Van Son B, Hilven K, Bos SD, Gulowsen Celius E, Berg-Hansen P, Aarseth J, Myhr K-M, D'Alfonso S, Barizzone N, Leone MA, Martinelli Boneschi F, Sorosina M, Liberatore G, **Kockum I**, Olsson T, Hillert J, Alfredsson L, Khalid Bedri S, Hemmer B, Buck D, Berthele A, Knier B, Biberacher V, van Pesch V, Sindic C, Bang Oturai A, Bach Søndergaard H, Sellebjerg F, Jensen PE, Comabella M, Montalban, J Pérez-Boza, S Malhotra, J Lechner-Scott, S Broadley, M Slee, B Taylor, A Kermodé X, Gourraud P-A, International Multiple Sclerosis Genetics Consortium, Sawcer SJ, Andreassen BK, Dubois B, Harbo HF Genetic variants are major determinants of cerebrospinal fluid antibody levels in multiple sclerosis BRAIN . 2015;138(Pt 3):632-43. PMID: 25616667
10. Sundqvist E, Buck D, Warnke C, Albrecht E, Gieger C, Khademi M, Lima Bomfim I, Fogdell-Hahn A, Link J, Alfredsson L, Bach Søndergaard H, Hillert J, International Multiple Sclerosis Genetics Consortium, Oturai AB, Hemmer B, **Kockum I†**, Tomas Olsson† JC Polyomavirus Infection Is Strongly Controlled by Human Leucocyte Antigen Class II Variants Plos Pathogens 2014 10 (4): e1004084 PMID: 24763718