

Monique M. B. BRETELER, MD PhD

Population Health Sciences
German Center for Neurodegenerative Diseases (DZNE)
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Current position

Director of Population Health Sciences at the DZNE, and professor (W3) of Population Health Sciences, University of Bonn, Germany

Research expertise

Our research uses an epidemiological approach to investigating the fundamentals of healthy aging and the changes that take place in the brain during the course of our lives. Using large-scale population-imaging studies, we study the role of vascular mechanisms, metabolic disorders, inflammation and lifestyle factors in the development and progression of neurodegenerative diseases, with a focus on early identification and prevention of disease.

Academic qualifications

1993 Doctorate, PhD, Epidemiology, University of Rotterdam, Netherlands
1984 - 1987 MD, University of Nijmegen
1978 - 1983 MSc, University of Nijmegen

Postgraduate professional career

2011 - pres. Director of Population Health Sciences at the German Center for Neurodegenerative Diseases (DZNE), Bonn, Germany
2011 - pres. Professor (W3) of Population Health Sciences at the University of Bonn, Germany
2002 - pres. Professor of Epidemiology (adjunct) at Harvard School of Public Health, Boston, MA, USA
1995 - 2011 Head of Neuroepidemiology, Department of Epidemiology at Erasmus University Rotterdam, Netherlands
1989 - 1995 Department of Epidemiology at Erasmus University Rotterdam, Netherlands

Honors and awards

2015 Foreign Member of the Royal Academy of Arts and Sciences (KNAW)
2014 Thomson Reuters Highly Cited Researcher
2012 Bengt Winblad Lifetime Achievement Award in Alzheimer's Disease Research
2003 VICI grant of the Netherlands Organisation for Scientific Research
1998 Fellowship of the Royal Netherlands Academy of Arts and Sciences

Principal funding (since 2012)

2017 - 2020 BMBF Multinational JPI HDHL cluster "HEALTHMARK"
2016 - 2019 BMBF Multinational JPI HDHL cluster "AMBROSIAC"
2015 - 2017 BMBF Competence cluster in nutrition research Diet-Body-Brain (DietBB)
2014 - 2018 The Helmholtz Initiative Personalized Medicine "Towards Individualized Diagnostics, Therapies and Prevention"
2012 - 2017 BfArM "Pharmacoepidemiology in the Rhineland Study"
2012 - 2016 Helmholtz Association "Metabolisches Syndrom und Volkskrankheiten"

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Publications

1. Scheltens, P., Blennow, K., **Breteler, M.M.**, de Strooper, B., Frisoni, G.B., Salloway, S., and Van der Flier, W.M. (2016). Alzheimer's disease. *Lancet* 388, 505-517.
2. Schrijvers, E.M., Koudstaal, P.J., Hofman, A., and **Breteler, M.M.** (2011). Plasma clusterin and the risk of Alzheimer disease. *JAMA* 305, 1322-1326.
3. Seshadri, S., Fitzpatrick, A.L., Ikram, M.A., DeStefano, A.L., Gudnason, V., Boada, M., Bis, J.C., Smith, A.V., Carassquillo, M.M., Lambert, J.C., Harold, D., Schrijvers, E.M., Ramirez-Lorca, R., Debette, S., Longstreth, W.T., Jr., Janssens, A.C., Pankratz, V.S., Dartigues, J.F., Hollingworth, P., Aspelund, T., Hernandez, I., Beiser, A., Kuller, L.H., Koudstaal, P.J., Dickson, D.W., Tzourio, C., Abraham, R., Antunez, C., Du, Y., Rotter, J.I., Aulchenko, Y.S., Harris, T.B., Petersen, R.C., Berr, C., Owen, M.J., Lopez-Arrieta, J., Varadarajan, B.N., Becker, J.T., Rivadeneira, F., Nalls, M.A., Graff-Radford, N.R., Campion, D., Auerbach, S., Rice, K., Hofman, A., Jonsson, P.V., Schmidt, H., Lathrop, M., Mosley, T.H., Au, R., Psaty, B.M., Uitterlinden, A.G., Farrer, L.A., Lumley, T., Ruiz, A., Williams, J., Amouyel, P., Younkin, S.G., Wolf, P.A., Launer, L.J., Lopez, O.L., van Duijn, C.M., **Breteler, M.M.**, Consortium, C., Consortium, G., and Consortium, E. (2010). Genome-wide analysis of genetic loci associated with Alzheimer disease. *JAMA* 303, 1832-1840. °equal contribution
4. Ikram, M.A., Seshadri, S., Bis, J.C., Fornage, M., DeStefano, A.L., Aulchenko, Y.S., Debette, S., Lumley, T., Folsom, A.R., van den Herik, E.G., Bos, M.J., Beiser, A., Cushman, M., Launer, L.J., Shahar, E., Struchalin, M., Du, Y., Glazer, N.L., Rosamond, W.D., Rivadeneira, F., Kelly-Hayes, M., Lopez, O.L., Coresh, J., Hofman, A., DeCarli, C., Heckbert, S.R., Koudstaal, P.J., Yang, Q., Smith, N.L., Kase, C.S., Rice, K., Haritunians, T., Roks, G., de Kort, P.L., Taylor, K.D., de Lau, L.M., Oostra, B.A., Uitterlinden, A.G., Rotter, J.I., Boerwinkle, E., Psaty, B.M., Mosley, T.H., van Duijn, C.M., **Breteler, M.M.**, Longstreth, W.T., Jr., and Wolf, P.A. (2009). Genomewide association studies of stroke. *N Engl J Med* 360, 1718-1728. °equal contribution
5. Vernooij, M.W., Ikram, M.A., Tanghe, H.L., Vincent, A.J., Hofman, A., Krestin, G.P., Niessen, W.J., **Breteler, M.M.**, and van der Lugt, A. (2007). Incidental findings on brain MRI in the general population. *N Engl J Med* 357, 1821-1828. °equal contribution
6. van Oijen, M., Hofman, A., Soares, H.D., Koudstaal, P.J., and **Breteler, M.M.** (2006). Plasma Abeta(1-40) and Abeta(1-42) and the risk of dementia: a prospective case-cohort study. *Lancet Neurol* 5, 655-660.
7. Vermeer, S.E., Prins, N.D., den Heijer, T., Hofman, A., Koudstaal, P.J., and **Breteler, M.M.** (2003). Silent brain infarcts and the risk of dementia and cognitive decline. *N Engl J Med* 348, 1215-1222.
8. in 't Veld, B.A., Ruitenberg, A., Hofman, A., Launer, L.J., van Duijn, C.M., Stijnen, T., **Breteler, M.M.**, and Stricker, B.H. (2001). Nonsteroidal antiinflammatory drugs and the risk of Alzheimer's disease. *N Engl J Med* 345, 1515-1521. °equal contribution
9. Ott, A., Stolk, R.P., van Harskamp, F., Pols, H.A., Hofman, A., and **Breteler, M.M.** (1999). Diabetes mellitus and the risk of dementia: The Rotterdam Study. *Neurology* 53, 1937-1942.
10. **Breteler, M.M.**, van Swieten, J.C., Bots, M.L., Grobbee, D.E., Claus, J.J., van den Hout, J.H., van Harskamp, F., Tanghe, H.L., de Jong, P.T., van Gijn, J., and et al. (1994). Cerebral white matter lesions, vascular risk factors, and cognitive function in a population-based study: the Rotterdam Study. *Neurology* 44, 1246-1252.