

Martina Elisabeth Börsch-Supan, Dipl.Chem., Ph.D.

Martina Börsch-Supan, née Meuer, born 1955 in Kirchchain (Hessen), Germany. Married, three children.

Education

- 1980 Diploma in Chemistry and Molecular Biology from the University zu Köln, Germany
Thesis: Phosphorylierung von ungeschützten Nukleosiden und Dinukleosiden mittels POCl_3
- 1985 PhD in Molecular Biology and Immunology from the Massachusetts Institute of Technology, Cambridge, MA, USA.
Thesis: Genetic basis of antibody diversity in the anti-NP response in C57BL/6 and BALB/c mice

Research and Teaching

- 1978/79 Research assistant medical Biochemistry, Universität zu Köln
- 1981/82 Student teaching assistant Immunology, MIT, Cambridge, MA, USA
- 1983/84 Student teaching assistant Immunology, MIT, Cambridge, MA, USA
- 1985/86 Post-Doc, Center for Cancer Research, MIT
- 1986/87 Research Associate, Sackler Graduate School for Biomedical Sciences, Tufts University, Boston, MA, USA

Stipends

- 1975 - 83 Member ‚Studienstiftung des Deutschen Volkes‘
- 1980 - 81 USA-Stipend DAAD
- 1981 - 82 Stipend for studies abroad of ‚Studienstiftung des Deutschen Volkes‘
- 1980 - 85 Fellowship Department of Biology, MIT

Work experience

- 1991 - 2010: Scientific translator, reviewer, and copy editor for the publishers Voet (Weinheim), Wiley, and Springer (Heidelberg).
- 1997 - 1998: Free lance work for the Museum of Technology and Labor in Mannheim for the Exhibition “Gen-Welten”.
- 2010 - 2013: Free lance work supporting the laboratory analysis of Dried Blood Spots collected in Germany in SHARE Wave 4 (feasibility study for a SHARE-wide DBS collection).
- 2011 - 2014: Free lance work to explore the logistic necessities to extent DBS collection to an European level – collaboration with the University of Southern Denmark, SDU, Dr. Karen Andersen-Ranberg. (Collection of DBS in 18 European SHARE countries during the pilot sampling of SHARE Wave 5).
- 2014 – 2015: Free lance work to prepare and organize the DBS collection in SHARE Wave 6 during the main survey in 12 SHARE countries; designing the collection, organizing the collection materials (Collection kit); interviewer training for DBS collection in Germany; monitoring the collection of DBS (quantity and quality) in collaboration with SHARE-Central, Munich and the SHARE Biobank in Odense.
- 2016 - ongoing: Collaboration with the Department of Laboratory Medicine, University of Washington (UW), Seattle, USA and Statens Serum Institut (SSI), Copenhagen, Denmark for the analyses of blood markers from the SHARE DBS.
- 2018 - 2019: Validation studies to correct survey-collected DBS analyses results for environmental impacts like temperature, shipment time, etc. in collaboration with the teams in Seattle/USA and Copenhagen/Odense, DK
- 2020 - ongoing: Analyses of blood marker results from DBS, SHARE Wave 6 field data. Collaboration with UW, Seattle, USA, USC Leonard Davis School of Gerontology, Los Angeles, CA, USA, Prof. Eileen Crimmins, and SSI, Copenhagen, DK.
- Since 2023, free-lance consultant for Munich Research Institute for the Economics of Aging and SHARE Analyses (MEA), Munich, Germany

Journal Publications

Boersch-Supan, M.E.; Agarwal, S.; White-Scharf, M.E.; Imanishi-Kari, T. (1985): **Heavy chain variable region: Multiple gene segments encode (4-hydroxy-3-nitrophenyl)acetyl idiotypic antibodies**. *J. Exp. Med.* *161*, 1272.

Börsch-Supan, Axel; Weiss, Luzia; Börsch-Supan, Martina; Potter, Ph.D., Alan; Cofferen, Jake (2020): **"Dried Blood Spot collection, sample quality, and fieldwork conditions: structural validations for conversion into standard values"**. In: *American Journal of Human Biology*. <https://doi.org/10.1002/ajhb.23517>.

Groh, Rebecca; Weiss, Luzia; Börsch-Supan, Martina; Börsch-Supan, Axel (2022): **"Effect of Spot Size on Biomarker Levels of Field-Collected Dried Blood Spots – A new Algorithm for Exact Size Measurement"**. In: *American Journal of Human Biology*, <http://dx.doi.org/10.1002/ajhb.23777>.

Working Papers

Boersch- Supan, M.E.; Imanishi-Kari, T. (1987) **Idiotypic and molecular analysis of the anti- NP-response in C57BL/6 mice**. Working paper, Sackler Graduate School for Biomedical Sciences, Tufts University.

Börsch-Supan, Axel; Weiss, Luzia; Börsch-Supan, Martina; Potter, Alan; Cofferen, Jake; Kerschner, Elizabeth (2019): **"Comparing Health in Europe based on Dried Blood Spot Samples"**. MEA Discussion Paper 07/2019.

Börsch-Supan, M.; Weiss, L.; Andersen-Ranberg, K.; Börsch-Supan, A. (2020) **Collection of Dried Blood Spots in SHARE: From implementation to blood-marker analyses**. SHARE Working Paper, 47-2020. http://www.share-project.org/uploads/tx_sharepublications/SHARE_WP_47-2020_TR_Collecting_DBS_in_SHARE_Boersch-Supan_Weiss_Andersen-Ranberg.pdf

Book Chapters

Börsch-Supan, M. and Andersen-Ranberg, K. (2017) **Collection of Dried Blood Spot Samples in SHARE Wave 6. Background - why collect Dried Blood Spot (DBS) samples**. In: Malter, F. and A. Börsch-Supan (Eds.). *SHARE Wave 6: Panel innovations and collecting Dried Blood Spots*. Munich: Munich Center for the Economics of Aging (MEA).

Börsch-Supan, M.; Friedel, S. and Weiss, L. (2017) **Collection of Dried Blood Spot Samples in SHARE Wave 6. Analysis of the samples – status quo and further tasks**. In: Malter, F. and A. Börsch-Supan (Eds.). *SHARE Wave 6: Panel innovations and collecting Dried Blood Spots*. Munich: Munich Center for the Economics of Aging (MEA).

Börsch-Supan, A.; Börsch-Supan, M. and Weiss, L.M. (2019) **Blood spot samples and their validation**. In: Börsch-Supan, Axel; Bristle, Johanna; Andersen-Ranberg, Karen; Brugiavini, Agar; Jusot, Florence; Litwin, Howard; Weber, Guglielmo (eds.): *Health and socio-economic status over the life course. First results from SHARE Waves 6 and 7*. De Gruyter, Berlin/Boston.

Weiss, L.M.; Börsch-Supan, M.; Myck, M.; Nocoń, K.; Oczkowska, M.; Topór-Mądry, R.; Andersen-Ranberg, K. and Börsch-Supan, A. (2019) **Blood collection in the field—results and lessons from the Polish test study**. In: Börsch-Supan, Axel; Bristle, Johanna; Andersen-Ranberg, Karen; Brugiavini, Agar; Jusot, Florence; Litwin, Howard; Weber, Guglielmo (eds.): *Health and socio-economic status over the life course. First results from SHARE Waves 6 and 7*. De Gruyter, Berlin/Boston.

Borbye-Lorenzen, N. and Börsch-Supan, M. (2019) **Identification of cytokine and lipoprotein markers for analyses in SHARE Wave 6 dried blood spots**. In: Börsch-Supan, Axel; Bristle, Johanna; Andersen-Ranberg, Karen; Brugiavini, Agar; Jusot, Florence; Litwin, Howard; Weber, Guglielmo (eds.): *Health and socio-economic status over the life course. First results from SHARE Waves 6 and 7*. De Gruyter, Berlin/Boston.