

List of publications Stefanie Prast-Nielsen (PhD)

Peer-reviewed publications and submitted manuscripts

Lindefeldt M, Eng A, Darban H, Bjerckner A, Zetterström C, Allander T, Andersson B, Borenstein E, Dahlin M, **Prast-Nielsen S**. The ketogenic diet influences taxonomic and functional composition of the gut microbiota in children with severe epilepsy. [Nature Biofilms and Microbiomes](#). Jan;5(1):5 (2019)

Dahlin M and **Prast-Nielsen S**. The Gut Microbiome and Epilepsy. [EBioMedicine](#) 2019 Jun;44:741-746. doi: 10.1016/j.ebiom.2019.05.024. Epub May 31 (2019).

Fyhrquist N*, Muirhead G*, **Prast-Nielsen S***, Jeanmougin M, Skoog T, Jules-Clement G, Feld M, Barrientos-Somarribas M, Pennino D, Suomela S, Tessa I, Lybeck E, Baran AM, Darban H, Singh Gangwar R, Gerstel U, Jahn K, Karisola P, Yan L, Hansmann B, Katayama S, Meller S, Bylesjö M, Hupé P, Levi-Schaffer F, Greco D, Ranki A, Schröder JM, Barker J, Kere J, Tsoka S, Lauerma A, Soumelis V, Nestle FO, Homey B, Andersson B, Alenius H. Microbe-host interplay in human skin homeostasis, atopy and autoimmunity. Accepted for publication at *Nature Communications* (Aug 2019)

***shared first authorship**

Prast-Nielsen S, Tobin AM, Adamzik K, Powles A, Hugerth LW, Sweeney CM, Kirby B, Engstrand L, Fry L. Investigation of the Skin Microbiome: Swabs vs Biopsies. [Br J Dermatology](#). DOI: 10.1111/bjd.17691, PMID: 30693476 (Jan 2019)

Prast-Nielsen S*, McNicholl AG*, O'Morain C, Megraud F, J Machado JC, Alarcon T, Leja M, Gasbarrini A, Andersen LP, Engstrand L† and Gisbert JP†. On behalf of the European Helicobacter and Microbiota Study Group (EHMSG; www.helicobacter.org). Comparison of the impact of Helicobacter pylori eradication treatment with bismuth and non-bismuth quadruple regimens on the gut microbiota. Under review at *Microbiota in Health and Disease* (Aug 2019).

*** Both authors equally contributed as first authors**, † Both authors equally contributed as senior authors

Prast-Nielsen S and Cryan JF. The Microbiota-Gut-Brain Axis in Epilepsy. Book chapter in section 3 on Neurobiology of Epilepsies of the third edition of *Epilepsy: a Comprehensive Textbook*, Wolters Kluwer to be published in 2020.

Shi W, Hu Y, Zheng X, Ning Z, Wu M, Xia F, **Prast-Nielsen S**, Hu Y, Xu B. Longitudinal profiling of gut microbiome among tuberculosis patients under antituberculosis treatment in China: protocol of a prospective cohort study. Submitted to *BMC Pulmonary Medicine* (2019)

Prast-Nielsen S, Huang HH, Williams DL. Thioredoxin glutathione reductase: Its role in redox biology and potential as a target for drugs against neglected diseases. [Biochim Biophys Acta](#). Dec;1810(12):1262-71 (2011)

Prast-Nielsen S, Dexheimer T, Schultz L, Stafford WC, Cheng Q, Xu J, Jadhav A, Arnér ESJ, Simeonov A. Inhibition of Thioredoxin Reductase by Porphyrins and Other Small Molecules Identified by a High Throughput Screening Assay. [Free Radic Biol Med](#). May 1;50(9):1114-23 (2011)

Prast-Nielsen S, Cebula M, Pader I, Arnér ES. Noble metal targeting of thioredoxin reductase - covalent complexes with thioredoxin and thioredoxin-related protein of 14 kDa triggered by cisplatin. [Free Radic Biol Med. 49\(11\)](#):1765-78 (2010)

Eriksson SE, **Prast-Nielsen S**, Flaberg E, Szekely L, Arnér ESJ. High levels of thioredoxin reductase 1 modulate drug-specific cytotoxic efficacy. [Free Radic Biol Med. 47\(11\)](#):1661-71 (2009)

Rai G, Sayed AA, Lea W, Luecke H, Chakrapani H, **Prast-Nielsen S**, Jadhav A, Leister W, Shen M, Inglese J, Austin CP, Keefer L, Arnér ESJ, Simeonov A, Maloney DJ, Williams DL, Thomas CJ. Structure-Mechanism Insights and the Role of Nitric Oxide Donation Guide the Development of Oxadiazole-2-Oxides as Therapeutic Agents against Schistosomiasis. [J Med Chem. 52\(20\)](#):6474-83 (2009)

Anestål K, **Prast-Nielsen S**, Cenas N, Arnér ES. Cell Death by SecTRAPs: Thioredoxin Reductase as a Prooxidant Killer of Cells. [PLoS ONE. 3\(4\)](#):e1846 (2008)

Cenas N¹, **Prast S**¹, Nivinskas H, Sarlauskas J, Arner ES. Interactions of nitroaromatic compounds with the mammalian selenoprotein thioredoxin reductase and the relation to induction of apoptosis in human cancer cells. [J Biol Chem. 281](#), 5593-603 (2006)

¹ *shared first authorship*

Enoksson M, Fernandes A, **Prast S**, Lillig C.H, Holmgren A, Orrenius S. Overexpression of glutaredoxin 2 attenuates apoptosis by preventing cytochrome c release. [Biochem Biophys Res Commun. 327](#), 774-9 (2005)

Peer-reviewed conference contributions

Dahlin M, Lindefeldt M, Darban H, Bjerkner A, Zetterström C, Allander T, Andersson B, **Prast-Nielsen S**. The ketogenic diet influences taxonomic and functional composition of the gut microbiota in children with epilepsy. Poster and Abstract for the *International Human Microbiome Consortium meeting 2018 (IHMC 2018)*, Killarney, Ireland; (2018)

Fyhrquist N, Andersson B, Kere J, Muirhead G, **Prast-Nielsen S**, Jeanmougin M, Barker J, Lauerma A, Homey B, Schröder J, Soumelis V, Nestlé F, Alenius H. Microbe-host interplay in atopic dermatitis and psoriasis: O801 *Scandinavian Journal of Immunology* 83 (5), 380-381 (2016)

Review articles (Peer-reviewed)

Dahlin M and **Prast-Nielsen S**. The gut microbiome and epilepsy, [EBioMedicine](#), <https://doi.org/10.1016/j.ebiom.2019.05.024> (2019)

Prast-Nielsen S, Huang HH, Williams DL. Thioredoxin glutathione reductase: Its role in redox biology and potential as a target for drugs against neglected diseases. [Biochim Biophys Acta. Dec](#);1810(12):1262-71 (2011)

Peer-reviewed books and book chapters

Prast-Nielsen S and Cryan JF. The Microbiota-Gut-Brain Axis in Epilepsy. Book chapter in section 3 on Neurobiology of Epilepsies of the third edition of *Epilepsy: a Comprehensive Textbook*, *Wolters Kluwer* to be published in 2020.