

Stanford



Jelle Folkerts

Postdoctoral Scholar, Pathology

Bio

BIO

My current endeavours focus on the identification of human mast cell degranulation regulators using a whole-genome CRISPR knockout library screen, and the validation of these findings using our recently developed technology platform. It is my long-standing goal to contribute to the design and development of specific and effective therapeutic interventions for mast cell-mediated diseases.

HONORS AND AWARDS

- Rubicon Postdoctoral Fellowship, The Netherlands Organisation for Scientific Research (NWO) (2023-2025)
- Exploratory/Developmental Research Grant Award (R21 - Co-Applicant), NIH (2021)
- Long-term Research Fellowship, The European Academy of Allergy and Clinical Immunology (2020)
- Fulbright Fellowship (NL - USA), Fulbright (2016-2017)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Organising committee, EMBRN-Meeting (2022 - present)
- Member, European Mast Cell and Basophil Research Network (EMBRN) (2016 - present)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Erasmus University Rotterdam (2022)
- PhD, Erasmus MC, Rotterdam, NL , Pulmonary Medicine (2022)
- MSc., Utrecht University, Utrecht, NL , Drug Innovation (2017)
- BSc., University of Applied Sciences, Utrecht, NL , Biomolecular Research (2013)

STANFORD ADVISORS

- Stephen Galli, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **EVO756 is a novel MRGPRX2 antagonist that potently inhibits human mast cell degranulation in response to multiple agonists - potential treatment for CSU and beyond**
Harden, J., Folkerts, J., Tam, S., Frischbutter, S., Babina, M., Hofland, H. E., Patel, J. P., Maurer, M., Galli, S. J.
ELSEVIER SCIENCE INC.2023: S344
- **Rapid identification of human mast cell degranulation regulators using functional genomics coupled to high-resolution confocal microscopy.** *Nature protocols*

Folkerts, J. n., Gaudenzio, N. n., Maurer, M. n., Hendriks, R. W., Stadhouders, R. n., Tam, S. Y., Galli, S. J.

2020

- **Butyrate inhibits human mast cell activation via epigenetic regulation of Fc ϵ RI-mediated signaling.** *Allergy*

Folkerts, J. n., Redegeld, F. n., Folkerts, G. n., Blokhuis, B. n., van den Berg, M. P., de Bruijn, M. J., van IJcken, W. F., Junt, T. n., Tam, S. Y., Galli, S. J., Hendriks, R. W., Stadhouders, R. n., Maurer, et al

2020

- **Microbiota-dependent and -independent effects of dietary fibre on human health** *BRITISH JOURNAL OF PHARMACOLOGY*

Cai, Y., Folkerts, J., Folkerts, G., Maurer, M., Braber, S.

2020; 177 (6): 1363-1381

- **Effect of Dietary Fiber and Metabolites on Mast Cell Activation and Mast Cell-Associated Diseases** *FRONTIERS IN IMMUNOLOGY*

Folkerts, J., Stadhouders, R., Redegeld, F. A., Tam, S., Hendriks, R. W., Galli, S. J., Maurer, M.

2018; 9

- **Effect of Dietary Fiber and Metabolites on Mast Cell Activation and Mast Cell-Associated Diseases.** *Frontiers in immunology*

Folkerts, J., Stadhouders, R., Redegeld, F. A., Tam, S. Y., Hendriks, R. W., Galli, S. J., Maurer, M.

2018; 9: 1067