

Stanford



Kelly Bruton

Postdoctoral Scholar, Pathology

Bio

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- Postdoctoral Fellowship, Stanford Maternal & Child Health Research Institute (2024-2026)
- The Henning Løwenstein Research Award, ALK (2024)
- Postdoctoral Fellowship, Canadian Institutes of Health Research (CIHR) (2023-2026)
- Canada Graduate Scholarship, Doctoral Award, Canadian Institutes of Health Research (CIHR) (2019-2022)
- Canada Graduate Scholarship, Master's Award, Canadian Institutes of Health Research (CIHR) (2017-2018)

PROFESSIONAL EDUCATION

- PhD, McMaster University , Immunology (2022)

STANFORD ADVISORS

- Michael Angelo, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Pathogenic IgE-fated memory B cell responses retain functional plasticity.** *Science immunology*
Bruton, K., Phelps, A., Ariaz, A., Fang, A., Walker, T. D., Wen, J., Khavkine-Binstock, S. S., Della Libera, D., Mann-Delany, O., Knudsen, N. P., Gadkar, S., Grydziusko, E., Koenig, et al
2026; 11 (115): eady2268
- **Uncovering the immune landscape of uterus-draining lymph nodes in human pregnancy**
Bruton, K., Yu, G., Walker, C., Engleman, E., Angelo, M.
OXFORD UNIV PRESS.2025
- **Allergic Reactivity and Memory Occur Independently of Sequential Switching Through IgG1.** *Allergy*
Koenig, J. F., Wade-Vallance, A. K., Jiménez-Saiz, R., Bruton, K., Gadkar, S., Grydziusko, E., Walker, T. D., Gordon, M. E., Gillgrass, A. E., Taylor, J. J., Wasserman, S., Jordana, M.
2025
- **Type 2-polarized memory B cells hold allergen-specific IgE memory.** *Science translational medicine*
Koenig, J. F., Knudsen, N. P., Phelps, A., Bruton, K., Hoof, I., Lund, G., Libera, D. D., Lund, A., Christensen, L. H., Glass, D. R., Walker, T. D., Fang, A., Wasserman, et al
2024; 16 (733): eadi0944

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- **Heterogeneity, subsets, and plasticity of T follicular helper cells in allergy** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Grydziusko, E., Phelps, A., Bruton, K., Jordana, M., Koenig, J. F. E.
2022; 150 (5): 990-998
 - **The Road Toward Transformative Treatments for Food Allergy.** *Frontiers in allergy*
Phelps, A., Bruton, K., Grydziusko, E., Koenig, J. F., Jordana, M.
2022; 3: 826623
 - **Peanut allergy: Beyond the oral immunotherapy plateau** *CLINICAL AND TRANSLATIONAL ALLERGY*
Bruton, K., Spill, P., Chu, D. K., Waserman, S., Jordana, M.
2021; 11 (6): e12046
 - **Interrupting reactivation of immunologic memory diverts the allergic response and prevents anaphylaxis** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Bruton, K., Spill, P., Vohra, S., Baribeau, O., Manzoor, S., Gadkar, S., Davidson, M., Walker, T. D., Koenig, J. F. E., Ellenbogen, Y., Florescu, A., Wen, J., Chu, et al
2021; 147 (4): 1381-1392
 - **Memory Generation and Re-Activation in Food Allergy** *IMMUNOTARGETS AND THERAPY*
Koenig, J. F. E., Bruton, K., Phelps, A., Grydziusko, E., Jimenez-Saiz, R., Jordana, M.
2021; 10: 171-184
 - **Perturbations to Homeostasis in Experimental Models Revealed Innate Pathways Driving Food Allergy** *FRONTIERS IN IMMUNOLOGY*
Bruton, K., Koenig, J. F. E., Phelps, A., Jordana, M.
2020; 11: 603272
 - **HIT-COVID, a global database tracking public health interventions to COVID-19** *SCIENTIFIC DATA*
Zheng, Q., Jones, F. K., Leavitt, S., Ung, L., Labrique, A. B., Peters, D. H., Lee, E. C., Azman, A. S., HIT-COVID Collaboration
2020; 7 (1): 286
 - **Follicular T cells: From stability to failure** *ALLERGY*
Jimenez-Saiz, R., Bruton, K., Jordana, M.
2020; 75 (4): 1006-1007
 - **TAK1 signaling activity links the mast cell cytokine response and degranulation in allergic inflammation** *JOURNAL OF LEUKOCYTE BIOLOGY*
Watson, C. J. F., Maguire, A. R. R., Rouillard, M. M., Crozier, R. W. E., Yousef, M., Bruton, K. M., Fajardo, V. A., MacNeil, A. J.
2020; 107 (4): 649-661
 - **Human BCR analysis of single-sorted, putative IgE(+) memory B cells in food allergy** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Jimenez-Saiz, R., Ellenbogen, Y., Bruton, K., Spill, P., Sommer, D. D., Lima, H., Waserman, S., Patil, S. U., Shreffler, W. G., Jordana, M.
2019; 144 (1): 336+
 - **IgG1(+) B-cell immunity predates IgE responses in epicutaneous sensitization to foods** *ALLERGY*
Jimenez-Saiz, R., Ellenbogen, Y., Koenig, J. E., Gordon, M. E., Walker, T. D., Rosace, D., Spill, P., Bruton, K., Kong, J., Monteiro, K., Wen, J., Tuomanen, E. I., Kolbeck, et al
2019; 74 (1): 165-175
 - **The IgE memory reservoir in food allergy** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Jimenez-Saiz, R., Bruton, K., Koenig, J. F. E., Waserman, S., Jordana, M.
2018; 142 (5): 1441-1443