



Bayan Kharrat

Postdoctoral Scholar, Developmental Biology

Bio

BIO

Dr. Bayan Kharrat is a postdoctoral researcher in the Goins Lab at Stanford University School of Medicine, where she studies the mechanisms governing fate commitment in hematopoietic stem and progenitor cells in *Drosophila*, with a focus on identifying key regulatory factors involved in this process.

Dr. Kharrat earned her Ph.D. in Biology from the University of Szeged and conducted her graduate research at the HUN-REN Biological Research Centre in Szeged, where she investigated the dual role of Headcase, an imaginal cell factor, in maintaining progenitor cells in the larval lymph gland. Her expertise spans *Drosophila* genetics, developmental biology, molecular biology, and confocal microscopy.

HONORS AND AWARDS

- Stipendium Hungaricum scholarship For MSc level, Tempus Public Foundation (2017-2019)
- Stipendium Hungaricum scholarship For PhD level, Tempus Public Foundation (2019-2024)
- Dr. Rollin D. Hotchkiss Foundation award for PhD students, Dr. Rollin D. Hotchkiss Foundation (2022)
- FEBS-IUBMB-ENABLE travel grants, FEBS-IUBMB-ENABLE (2022 and 2023)
- Third Place, Best Flash Talk Award, 2nd FEBS-IUBMB-ENABLE Conference, Cologne, Germany (2023)
- MIHA travel grant, Hungarian Society of Immunology (2023)
- Young scientist fellowship, HUN-REN Biological Research Centre, Szeged, Hungary (2023-2024)

STANFORD ADVISORS

- Lauren Goins, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **A novel role for Hsc70-4 in blood cell differentiation in *Drosophila*.** *Frontiers in immunology*
Kharrat, B., Gábor, E., Vilmos, P., Goins, L. M., Honti, V.
2025; 16: 1641695
- **Dual role for Headcase in hemocyte progenitor fate determination in *Drosophila melanogaster*.** *PLoS genetics*
Kharrat, B., Gábor, E., Virág, N., Sinka, R., Jankovics, F., Kristó, I., Vilmos, P., Csordás, G., Honti, V.
2024; 20 (10): e1011448
- **A Novel Method for Primary Blood Cell Culturing and Selection in *Drosophila melanogaster*.** *Cells*
Kúthy-Sutus, E., Kharrat, B., Gábor, E., Csordás, G., Sinka, R., Honti, V.
2022; 12 (1)

- **Peeling Back the Layers of Lymph Gland Structure and Regulation.** *International journal of molecular sciences*
Kharrat, B., Csordás, G., Honti, V.
2022; 23 (14)