Stanford

Elle Sedova (Koren)

Postdoctoral Scholar, Stem Cell Biology and Regenerative Medicine

Bio

HONORS AND AWARDS

- Stanford School of Medicine Dean's Postdoctoral Fellowship, Stanford University (01/2023)
- Walter V. and Idun Berry Postdoctoral Fellowship, Berry Foundation (09/2023)

PROFESSIONAL EDUCATION

- Ph.D., Technion Israel Institute of Technology (2021)
- B.Sc., Australian National University (2014)

STANFORD ADVISORS

- Irving Weissman, Postdoctoral Faculty Sponsor
- Irving Weissman, Postdoctoral Research Mentor

Publications

PUBLICATIONS

- **Lineage tracing of both quiescent G0 and active Hoxb5+ LT-HSCs that actively contribute to homeostatic mouse hematopoiesis.** *Proceedings of the National Academy of Sciences of the United States of America*
  Xiang, J., Almeida, L., Pasillas, J., Sun, C. T., Wang, Y., Koren, E., Hanson, E. C., Brakebill, A., Wang, C., Burden, A. T., Weissman, I. L.
  2025; 122 (49): e2513724122

- **Macrophages release neuraminidase and cleaved calreticulin for programmed cell removal.** *Proceedings of the National Academy of Sciences of the United States of America*
  Banuelos, A., Baez, M., Zhang, A., Yılmaz, L., Kasberg, W., Volk, R., Georgeos, N., Koren-Sedova, E., Le, U., Burden, A. T., Marjon, K. D., Lippincott-Schwartz, J., Zaro, et al
  2025; 122 (21): e2426644122

- **Altered ubiquitin signaling induces Alzheimer's disease-like hallmarks in a three-dimensional human neural cell culture model.** *Nature communications*
  Maniv, I., Sarji, M., Bdarneh, A., Feldman, A., Ankawa, R., Koren, E., Magid-Gold, I., Reis, N., Soteriou, D., Salomon-Zimri, S., Lavy, T., Kesselman, E., Koifman, et al
  2023; 14 (1): 5922

- **Thy1 marks a distinct population of slow-cycling stem cells in the mouse epidermis.** *Nature communications*
  Koren, E., Feldman, A., Yusupova, M., Kadosh, A., Sedov, E., Ankawa, R., Yosefzon, Y., Nasser, W., Gerstberger, S., Kimel, L. B., Priselac, N., Brown, S., Sharma, et al
  2022; 13 (1): 4628

- **THY1-mediated mechanisms converge to drive YAP activation in skin homeostasis and repair.** *Nature cell biology*
  Sedov, E., Koren, E., Chopra, S., Ankawa, R., Yosefzon, Y., Yusupova, M., Weiss, L. E., Mahly, A., Soffer, A., Feldman, A., Luxenburg, C., Shechtman, Y., Fuchs, et al
  2022

- **Fetomaternal microchimerism in tissue repair and tumor development.** *Developmental cell*
  Sedov, E., McCarthy, J., Koren, E., Fuchs, Y.

2022

- **Apoptotic stress-induced FGF signalling promotes non-cell autonomous resistance to cell death.** *Nature communications*
  Bock, F. J., Sedov, E., Koren, E., Koessinger, A. L., Cloix, C., Zerbst, D., Athineos, D., Anand, J., Campbell, K. J., Blyth, K., Fuchs, Y., Tait, S. W.
  2021; 12 (1): 6572

- **Apoptotic cells represent a dynamic stem cell niche governing proliferation and tissue regeneration.** *Developmental cell*
  Ankawa, R., Goldberger, N., Yosefzon, Y., Koren, E., Yusupova, M., Rosner, D., Feldman, A., Baror-Sebban, S., Buganim, Y., Simon, D. J., Tessier-Lavigne, M., Fuchs, Y.
  2021

- **YAP and β-Catenin Cooperate to Drive Oncogenesis in Basal Breast Cancer.** *Cancer research*
  Quinn, H. M., Vogel, R., Popp, O., Mertins, P., Lan, L., Messerschmidt, C., Landshammer, A., Lisek, K., Château-Joubert, S., Marangoni, E., Koren, E., Fuchs, Y., Birchmeier, et al
  2021; 81 (8): 2116-2127

- **Modes of Regulated Cell Death in Cancer.** *Cancer discovery*
  Koren, E., Fuchs, Y.
  2021; 11 (2): 245-265

- **Blimp1+ cells generate functional mouse sebaceous gland organoids in vitro.** *Nature communications*
  Feldman, A., Mukha, D., Maor, I. I., Sedov, E., Koren, E., Yosefzon, Y., Shlomi, T., Fuchs, Y.
  2019; 10 (1): 2348

- **The ARTS of Cell Death.** *Journal of cell death*
  Koren, E., Fuchs, Y.
  2019; 12: 1179066019836967

- **ARTS mediates apoptosis and regeneration of the intestinal stem cell niche.** *Nature communications*
  Koren, E., Yosefzon, Y., Ankawa, R., Soteriou, D., Jacob, A., Nevelsky, A., Ben-Yosef, R., Bar-Sela, G., Fuchs, Y.
  2018; 9 (1): 4582

- **Caspase-3 Regulates YAP-Dependent Cell Proliferation and Organ Size.** *Molecular cell*
  Yosefzon, Y., Soteriou, D., Feldman, A., Kostic, L., Koren, E., Brown, S., Ankawa, R., Sedov, E., Glaser, F., Fuchs, Y.
  2018; 70 (4): 573-587.e4

- **The bad seed: Cancer stem cells in tumor development and resistance.** *Drug resistance updates : reviews and commentaries in antimicrobial and anticancer chemotherapy*
  Koren, E., Fuchs, Y.
  2016; 28: 1-12