



Irina Gurevich

Basic Life Research Scientist, Dermatology

Bio

LINKS

- T cells interact with bystander DCs through TCR: <https://www.youtube.com/watch?v=eJEzqxfiCHE>

Publications

PUBLICATIONS

- **Repurposing an epithelial sodium channel inhibitor as a therapy for murine and human skin inflammation.** *Science translational medicine*
Winge, M. C., Nasrallah, M., Jackrazi, L. V., Guo, K. Q., Fuhrman, J. M., Szafran, R., Ramanathan, M., Gurevich, I., Nguyen, N. T., Siprashvili, Z., Inayathullah, M., Rajadas, J., Porter, et al
2024; 16 (777): eade5915
- **Collagen VII's Dual Mesenchymal and Epithelial Origins: Implications for Molecular Corrective Therapies.** *The Journal of investigative dermatology*
Bagci, I. S., Gurevich, I., Dolorito, J. A., Tripathi, P., Momin, N. S., Sun, A., La, T., Sridhar, K., Marinkovich, M. P.
2024
- **In vivo topical gene therapy for recessive dystrophic epidermolysis bullosa: a phase 1 and 2 trial.** *Nature medicine*
Gurevich, I., Agarwal, P., Zhang, P., Dolorito, J. A., Oliver, S., Liu, H., Reitze, N., Sarma, N., Bagci, I. S., Sridhar, K., Kakarla, V., Yenamandra, V. K., O'Malley, et al
2022
- **Hyaluronan synthesis inhibition impairs antigen presentation and delays transplantation rejection.** *Matrix biology : journal of the International Society for Matrix Biology*
Marshall, P. L., Nagy, N. n., Kaber, G. n., Barlow, G. L., Ramesh, A. n., Xie, B. J., Linde, M. H., Haddock, N. L., Lester, C. A., Tran, Q. L., de Vries, C. n., Hargil, A. n., Malkovskiy, et al
2020
- **4-Methylumbelliferyl glucuronide contributes to hyaluronan synthesis inhibition** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Nagy, N., Gurevich, I., Kuipers, H. F., Ruppert, S. M., Marshall, P. L., Xie, B. J., Sun, W., Malkovskiy, A. V., Rajadas, J., Grandoch, M., Fischer, J. W., Frymoyer, A. R., Kaber, et al
2019; 294 (19): 7864–77
- **4-Methylumbelliferyl glucuronide contributes to hyaluronan synthesis inhibition.** *The Journal of biological chemistry*
Nagy, N., Gurevich, I., Kuipers, H. F., Ruppert, S. M., Marshall, P. L., Xie, B. J., Sun, W., Malkovskiy, A. V., Rajadas, J., Grandoch, M., Fischer, J. W., Frymoyer, A. R., Kaber, et al
2019
- **Natural Tr1-like cells do not confer long-term tolerogenic memory.** *eLife*
Yadava, K. n., Medina, C. O., Ishak, H. n., Gurevich, I. n., Kuipers, H. n., Shamskhov, E. A., Koliesnik, I. O., Moon, J. J., Weaver, C. n., Nadeau, K. C., Bollyky, P. L.
2019; 8

- **Active dissemination of cellular antigens by DCs facilitates CD8(+) T-cell priming in lymph nodes** *EUROPEAN JOURNAL OF IMMUNOLOGY*
Gurevich, I., Feferman, T., Milo, I., Tal, O., Golani, O., Drexler, I., Shakhar, G.
2017; 47 (10): 1802–18
- **Hyaluronan synthesis is necessary for autoreactive T-cell trafficking, activation, and Th1 polarization.** *Proceedings of the National Academy of Sciences of the United States of America*
Kuipers, H. F., Rieck, M., Gurevich, I., Nagy, N., Butte, M. J., Negrin, R. S., Wight, T. N., Steinman, L., Bollyky, P. L.
2016; 113 (5): 1339-1344
- **Hyaluronan synthesis is necessary for autoreactive T-cell trafficking, activation, and Th1 polarization.** *Proceedings of the National Academy of Sciences of the United States of America*
Kuipers, H. F., Rieck, M., Gurevich, I., Nagy, N., Butte, M. J., Negrin, R. S., Wight, T. N., Steinman, L., Bollyky, P. L.
2016
- **Heparanase of murine effector lymphocytes and neutrophils is not required for their diapedesis into sites of inflammation** *FASEB JOURNAL*
Stoler-Barak, L., Petrovich, E., Aycheh, T., Gurevich, I., Tal, O., Hatzav, M., Ilan, N., Feigelson, S. W., Shakhar, G., Vlodavsky, I., Alon, R.
2015; 29 (5): 2010-2021
- **The integrin coactivator Kindlin-3 is not required for lymphocyte diapedesis** *BLOOD*
Cohen, S. J., Gurevich, I., Feigelson, S. W., Petrovich, E., Moser, M., Shakhar, G., Fassler, R., Alon, R.
2013; 122 (15): 2609-2617
- **Luminal Bacteria Recruit CD103(+) Dendritic Cells into the Intestinal Epithelium to Sample Bacterial Antigens for Presentation** *IMMUNITY*
Farache, J., Koren, I., Milo, I., Gurevich, I., Kim, K., Zigmond, E., Furtado, G. C., Lira, S. A., Shakhar, G.
2013; 38 (3): 581-595
- **Murine anti-third-party central-memory CD8(+) T cells promote hematopoietic chimerism under mild conditioning: lymph-node sequestration and deletion of anti-donor T cells** *BLOOD*
Ophir, E., Or-Geva, N., Gurevich, I., Tal, O., Eidelstein, Y., Shezen, E., Margalit, R., Lask, A., Shakhar, G., Hagin, D., Bachar-Lustig, E., Reich-Zeliger, S., Beilhack, et al
2013; 121 (7): 1220-1228
- **DC mobilization from the skin requires docking to immobilized CCL21 on lymphatic endothelium and intralymphatic crawling** *JOURNAL OF EXPERIMENTAL MEDICINE*
Tal, O., Lim, H. Y., Gurevich, I., Milo, I., Shipony, Z., Ng, L. G., Angeli, V., Shakhar, G.
2011; 208 (10): 2141-2153

PRESENTATIONS

- Successful in vivo COL7A1 gene delivery and correction of recessive dystrophic epidermolysis bullosa (RDEB) skin using an off the shelf HSV-1 vector (KB103) - international investigative dermatology (5/19/2018)
- Ag transfer in Dendritic cell networks facilitates T cell priming - 78th Symposium: Immunity & Tolerance meeting; Cold Spring Harbor Laboratory, (5/29/2013 - 6/3/2013)
- Dendritic cells networks in LN - Gordon Research Conferences (6/10/2012 - 6/15/2012)
- in vivo and in vitro about antigen transfer within DC networks for T cell activation - DC2010: Forum on Vaccine Scienc (10/2010 - 10/2010)