



Ankit Srivastava

Temporary Employee, Medicine - Med/Gastroenterology and Hepatology

Bio

BIO

Dr. Srivastava completed his PhD in medicine with a focus on immunology and RNA biology (2014-2018) and his first postdoctoral position in the same field (2018-2020) at Karolinska Institutet in Sweden. He then moved to Stanford University for his second postdoctoral position (2020-2023). Since December 2023, he has been working as a research scientist here. Including his second postdoc (2020-2023) at Stanford University, his research has focused on understanding immune-tumor cell crosstalk in cancers and on developing targeted drug-discovery approaches to treat them. Over the years, he has developed expertise in immunology, oncology, inflammatory networks, RNA biology, molecular and cellular biology, aging, and computational methods. Moreover, for his research, he has utilized single-cell transcriptomics, spatial transcriptomics/proteomics, tumor spheroids/invasion organoids, patient-derived organoids, ex vivo cultures, cellular interactions, tumor/aging/inflammatory disease animal models, and drug screening platforms to uncover new insights into disease pathogenesis and treatment opportunities.

Dr. Srivastava's research in inflammation, RNA biology, and immuno-oncology is widely published and supported by several funding agencies, including the Stanford SPARK Translational Program, the Swedish Research Council, the Swedish Skin Foundation, and the Swedish Psoriasis Foundation. Furthermore, he received the Swedish Research Council's International Postdoctoral Fellowship in 2020 and the European Society for Dermatology Research's Future Leader Award in 2022.

CURRENT ROLE AT STANFORD

As a research scientist, the overarching goal of my research is to elucidate targetable cellular crosstalk between hepatocytes and immune cells in the liver that promotes aging, inflammation, and cancer. To highlight this, I use spatial biology, patient-derived organoids, and disease models of cancer and inflammation.

HONORS AND AWARDS

- External Examiner, PhD Candidate Thesis Evaluation, Central University of Punjab, India (2025)
- SPARK Translational Grant, Stanford University (2023-2025)
- International Postdoctoral Fellow, Swedish Research Council (VR), Sweden (09/2020-09/2023)
- Recognition as Future Leader, Future Leader Academy, Spain, European Society of Dermatology Research (10/2022)
- Research Award, Swedish Skin Foundation, Sweden (2019-2020)
- Research Award, Gösta A. Karlssons Foundation, Sweden (2019-2020)
- Research Award, Swedish Psoriasis Foundation, Sweden (2019-2020)

EDUCATION AND CERTIFICATIONS

- Postdoctoral Training, Stanford University, CA, USA , Immuno-Oncology (2023)
- Postdoctoral Training, Karolinska Institutet, Stockholm, Sweden , Immunology (2020)
- PhD, Karolinska Institutet, Stockholm, Sweden , Medicine (2018)
- Master of Technology, Vellore Institute Of Technology, India , Biotechnology (2012)
- Bachelor of Technology, Allahabad Agricultural Institute- Deemed University, India , Biotechnology (2009)

PATENTS

- Chen Li, Ankit Srivastava, Jonathon Elton, Claire Marionnet, Enikő Sonkoly Pivarcsi, Andor Pivarcsi. "France Patent #25445001.8 Process for screening active ingredients to combat or reverse the senescence of dermal fibroblasts (miR383, and their targets PCLAF, TTK1)", L'Oreal Research & Innovation, France and Uppsala University, Sweden, Mar 18, 2025

LINKS

- LinkedIn: <https://www.linkedin.com/in/ankit-srivastava-717a0983/>
- ORCID: <https://orcid.org/0000-0001-5328-7509>
- Dhanasekaran Lab: <https://med.stanford.edu/dhanasekaran-lab/research.html>

Professional

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Guest Editor, International Journal of Molecular Sciences (2023 - 2025)
- Review board member, International Journal of Molecular Sciences, non-coding RNA (2021 - present)

Publications

PUBLICATIONS

- **Unraveling the Tapestry: Lessons from multiomics and spatial biology in hepatocellular cancer.** *Hepatology (Baltimore, Md.)*
Massoudi, D., Srivastava, A., Dhanasekaran, R.
2026
- **Epithelial tumor cells utilize mast cell-derived histamine to regulate perineural invasion** *bioRxiv*
Srivastava, A., Bencomo, T., Lee, C., Mah, A., Garcia, J., Seow, L., Donohue, . M., Tan, A. J., Nguyen, A., Jiang, T., Gombar, S., Phu, L., Dwivedi, et al
2025
- **Unravelling the landscape of skin cancer through single-cell transcriptomics.** *Translational oncology*
Srivastava, A., Bencomo, T., Das, I., Lee, C. S.
2022; 27: 101557
- **MAB21L4 deficiency drives squamous cell carcinoma via activation of RET.** *Cancer research*
Srivastava, A., Tommasi, C., Sessions, D., Mah, A., Bencomo, T., Garcia, J. M., Jiang, T., Lee, M., Shen, J. Y., Seow, L. W., Nguyen, A., Rajapakshe, K., Coarfa, et al
2022
- **Cross-talk between IFN- γ and TWEAK through miR-149 amplifies skin inflammation in psoriasis.** *The Journal of allergy and clinical immunology*
Srivastava, A., Luo, L., Lohcharoenkal, W., Meisgen, F., Pasquali, L., Pivarcsi, A., Sonkoly, E.
2021; 147 (6): 2225-2235
- **MicroRNA-146a suppresses IL-17-mediated skin inflammation and is genetically associated with psoriasis** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Srivastava, A., Nikamo, P., Lohcharoenkal, W., Li, D., Meisgen, F., Landen, N., Stahle, M., Pivarcsi, A., Sonkoly, E.

2017; 139 (2): 550-561

- **The long non-coding RNA LINC00958 is induced in psoriasis epidermis and modulates epidermal proliferation.** *The Journal of investigative dermatology*
Luo, L., Pasquali, L., Srivastava, A., Freisenhausen, J. C., Pivarcsi, A., Sonkoly, E.
2023
- **miR-378a regulates keratinocyte responsiveness to IL-17A in psoriasis.** *The British journal of dermatology*
Xia, P., Pasquali, L., Gao, C., Srivastava, A., Khera, N., Freisenhausen, J. C., Luo, L., Rosen, E., van Lierop, A., Homey, B., Pivarcsi, A., Sonkoly, E.
2022
- **IL-22 downregulates peptidylarginine deiminase-1 in human keratinocytes: adding another piece to the IL-22 puzzle in epidermal barrier formation.** *The Journal of investigative dermatology*
Padhi, A., Srivastava, A., Ramesh, A., Ehrstrom, M., Simon, M., Sonkoly, E., Eidsmo, L., Bergman, P., Lysell, J.
2021
- **Chromatin interactions in differentiating keratinocytes reveal novel atopic dermatitis- and psoriasis-associated genes** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Sahlen, P., Spalinskas, R., Asad, S., Das Mahapatra, K., Hojer, P., Anil, A., Eisfeldt, J., Srivastava, A., Nikamo, P., Mukherjee, A., Kim, K., Bergman, O., Stahle, et al
2021; 147 (5): 1742-1752
- **Circulating microRNAs in extracellular vesicles as potential biomarkers for psoriatic arthritis in patients with psoriasis.** *Journal of the European Academy of Dermatology and Venereology : JEADV*
Pasquali, L., Svedbom, A., Srivastava, A., Rosén, E., Lindqvist, U., Stähle, M., Pivarcsi, A., Sonkoly, E.
2020; 34 (6): 1248-1256
- **Next-Generation Sequencing Identifies the Keratinocyte-Specific miRNA Signature of Psoriasis** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
Srivastava, A., Meisgen, F., Pasquali, L., Munkhammar, S., Xia, P., Stahle, M., Landen, N., Pivarcsi, A., Sonkoly, E.
2019; 139 (12): 2547-+
- **The Keratinocyte Transcriptome in Psoriasis: Pathways Related to Immune Responses, Cell Cycle and Keratinization** *ACTA DERMATO-VENEREOLOGICA*
Pasquali, L., Srivastava, A., Meisgen, F., Das Mahapatra, K., Xia, P., Landen, N., Pivarcsi, A., Sonkoly, E.
2019; 99 (2): 196-205
- **Tofacitinib Represses the Janus Kinase-Signal Transducer and Activators of Transcription Signalling Pathway in Keratinocytes** *ACTA DERMATO-VENEREOLOGICA*
Srivastava, A., Stahle, M., Pivarcsi, A., Sonkoly, E.
2018; 98 (8): 772-775
- **Identification of chronological and photoageing-associated microRNAs in human skin** *SCIENTIFIC REPORTS*
Srivastava, A., Karlsson, M., Marionnet, C., Bernerd, F., Gueniche, A., Rawadi, C. E. L., Stahle, M., Sonkoly, E., Breton, L., Pivarcsi, A.
2018; 8: 12990
- **Long term impact of the endocrine disruptor tributyltin on male fertility following a single acute exposure** *ENVIRONMENTAL TOXICOLOGY*
Mitra, S., Srivastava, A., Khandelwal, S.
2017; 32 (10): 2295-2304
- **Consequences of tributyltin chloride induced stress in Leydig cells: An ex-vivo approach** *ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY*
Mitra, S., Srivastava, A., Khanna, S., Khandelwal, S.
2014; 37 (2): 850-860
- **Tributyltin chloride induced testicular toxicity by JNK and p38 activation, redox imbalance and cell death in sertoli-germ cell co-culture** *TOXICOLOGY*
Mitra, S., Srivastava, A., Khandelwal, S.
2013; 314 (1): 39-50

PRESENTATIONS

- MAB21L4 deficiency drives squamous cell carcinoma via activation of RET - ESDR-Future Leader Academy (FLA) 2022
- Non-coding RNAs in psoriasis - Chronic Inflammatory Disease: regulation by miRNA and beyond, 2017
- MicroRNA-146a suppresses IL-17-mediated skin inflammation and is genetically associated with psoriasis - Annual ESDR Meeting (2016)