



**HARVARD**  
MEDICAL SCHOOL

**BLAVATNIK INSTITUTE**  
**IMMUNOLOGY**

ULRICH H. VON ANDRIAN  
Mallinckrodt Professor of Immunopathology  
Director, HMS Center for Immune Imaging  
Program Leader, Basic Immunology  
77 Avenue Louis Pasteur, New Research Bldg. 836  
Boston, Massachusetts 02115  
[uva@hms.harvard.edu](mailto:uva@hms.harvard.edu)  
Tel (617) 432-6827 | Fax (617) 432-6829



Boston, August 9, 2024

To the organizers of the HMS–SNUH/SNUCM Collaborative Research Program:

This letter is to formally express my keen interest in the HMS–SNUH/SNUCM Collaborative Research Program.

I'm the Edward Mallinckrodt Jr. Professor of Immunopathology, a title I have held since 2006. My laboratory in the Blavatnik Institute Department of Immunology currently has 16 full-time members, including 10 postdocs, 3 graduate students a research technician, a lab manager, and an administrator.

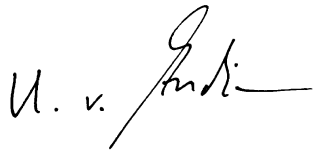
The research in my laboratory addresses basic questions in immunology, with several projects at the interface with neuroscience, vascular biology, hematology and oncology. Specifically, currently ongoing projects in my lab include:

- Defining the migratory and functional properties of anti-viral T cell subsets.
- Establishing the immunological landscape of the nasal mucosa as a primary site of entry for airborne pathogens.
- Developing new strategies for mucosal vaccine development using nanoparticles to induce tissue-resident memory T cells.
- Exploring the mechanisms of T cell imprinting for homing to the large and small intestine.
- Generating a high resolution transcriptome atlas of microvascular endothelial cell subsets to identify tissue restricted molecular targets for drug delivery.
- Identifying and characterizing lesion specific microvascular markers for the diagnosis and treatment of endometriosis.
- Discovering endothelial targets for drug delivery across the blood-brain barrier.
- Defining the role of endothelial cell differentiation in solid tumors as a determinant of T cell recruitment and immuno-therapy.
- Investigating the role of nociceptive sensory neurons in the regulation of myeloid leukocytes, endothelial cells, and cancer.
- Dissecting the molecular and cellular mechanisms of the adjuvant-like properties of bisphosphonates.
- Uncovering the molecular basis of antigen specificity in memory NK cells.

I have not yet identified a specific partner/collaborator at SNUH/SNUCM, however, based on a preliminary online review, there appear to be several superb scientists among the faculty at SNUH/SNUCM whose work seems well aligned with one or more of the projects I have listed above. I would be very grateful for any assistance to meet and engage with interested colleagues in Seoul. If chosen, I would be delighted to host, supervise and mentor a Korean trainee in my laboratory.

Please do not hesitate to contact me with any questions.

Sincerely,

A handwritten signature in black ink, reading "U. v. Andrian". The signature is written in a cursive style with a long horizontal stroke at the end.

Ulrich H. von Andrian, M.D.  
Mallinckrodt Professor of Immunopathology  
Department of Immunology, Harvard Medical School