



Alan M. Krensky, M.D.

Shelagh Galligan Professor in the School of Medicine, Emeritus
Pediatrics - Immunology and Allergy

 Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Pediatrics - Immunology and Allergy
- Member, Bio-X

ADMINISTRATIVE APPOINTMENTS

- Chief, Division of Immunology and Transplantation Biology - Pediatrics, (1995- present)
- Shelagh Galligan Professor, Stanford University, (1995- present)
- Associate Chair, Stanford University School of Medicine - Pediatrics, (1999- present)
- Associate Dean, Children's Health Initiative, (1999- present)

HONORS AND AWARDS

- Member, Association of American Physicians (2002)
- Novartis Established Investigator Award, American Society of Transplantation (1999)
- E. Mead Johnson Award, Society for Pediatric Research (1995)
- Member, American Society of Clinical Investigation (1994)
- Scholar in Experimental Therapeutics, Burroughs Wellcome Fund (1994-1999)

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PROFESSIONAL EDUCATION

- B.A., University of Pennsylvania , Animal Behavior (1973)
- M.D., University of Pennsylvania , Medicine (1977)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Research in this laboratory focuses on using knowledge about the basic mechanisms of T lymphocyte biology in order to design novel immunotherapies for use in infectious diseases, transplantation, cancer, and autoimmune diseases. The techniques of cellular immunology, protein chemistry, and molecular biology are used in the following four projects:

- 1) Immunosuppressive effects of HLA derived peptides. Synthetic peptides corresponding to linear sequences of HLA molecules inhibit T lymphocyte function both in vitro and in vivo. Current studies in the laboratory focus on the mechanism of action of the peptides in signal transduction and transcriptional regulation and

identification and characterization of the receptor(s) for peptide. The effect of these peptides in murine models of transplantation, diabetes mellitus, and graft versus host disease is being investigated.

2) Function and transcriptional regulation of expression of the chemokine RANTES. RANTES is a chemoattractant cytokine (chemokine) and HIV suppressor factor first identified in this laboratory. Ongoing studies involve the characterization of novel transcription factors expressed three to five days after T cell activation which are responsible for regulating the RANTES expression in T lymphocytes.

3) The novel cytolytic molecule granulysin. We identified granulysin as a T cell specific gene using subtractive hybridization. It is expressed in CTL and NK cells and kills microbes and tumor cells. Studies in the laboratory are focused on understanding the mechanism of action of granulysin in inducing apoptosis and its target specificity.

4) Role of chemokine lymphotactin in immunologic tolerance.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)
- Chemical and Systems Biology (Phd Program)
- Immunology (Phd Program)

Publications

PUBLICATIONS

- **KLF13 sustains thymic memory-like CD8(+) T cells in BALB/c mice by regulating IL-4-generating invariant natural killer T cells** *JOURNAL OF EXPERIMENTAL MEDICINE*
Lai, D., Zhu, J., Wang, T., Hu-Li, J., Terabe, M., Berzofsky, J. A., Clayberger, C., Krensky, A. M.
2011; 208 (5): 1093-1103
- **15 kDa Granulysin versus GM-CSF for monocytes differentiation: analogies and differences at the transcriptome level** *JOURNAL OF TRANSLATIONAL MEDICINE*
Castiello, L., Stroncek, D. F., Finn, M. W., Wang, E., Marincola, F. M., Clayberger, C., Krensky, A. M., Sabatino, M.
2011; 9
- **Monocyte-derived DC maturation strategies and related pathways: a transcriptional view** *CANCER IMMUNOLOGY IMMUNOTHERAPY*
Castiello, L., Sabatino, M., Jin, P., Clayberger, C., Marincola, F. M., Krensky, A. M., Stroncek, D. F.
2011; 60 (4): 457-466
- **Granulysin Delivered by Cytotoxic Cells Damages Endoplasmic Reticulum and Activates Caspase-7 in Target Cells** *JOURNAL OF IMMUNOLOGY*
Saini, R. V., Wilson, C., Finn, M. W., Wang, T., Krensky, A. M., Clayberger, C.
2011; 186 (6): 3497-3504
- **Expression and purification of 15 kDa granulysin utilizing an insect cell secretion system** *PROTEIN EXPRESSION AND PURIFICATION*
Finn, M. W., Clayberger, C., Krensky, A. M.
2011; 75 (1): 70-74

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