Stanford



Alan M. Krensky, M.D.

Shelagh Galligan Professor in the School of Medicine, Emeritus

Pediatrics - Immunology

Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

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

ADMINISTRATIVE APPOINTMENTS

- Chief, Division of Immunology and Transplantation Biology - Pedaitrics, (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)
- Award for Excellence in Pediatric Research, American Academy of Pediatrics (1993)
- Young Investigator Award, American Society for Histocompatibility and Immunogenetics (1985)
- Joseph A. Shankman Award, National Kidney Foundation of Massachusetts (1983)
- Young Investigator Award, American Society of Nephrology/American Heart Association (1990)
- Young Investigator Award, Society for Pediatric Research (1985)

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 efects 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 cytolyic 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
- **Induction of Granulysin and Perforin Cytolytic Mediator Expression in 10-Week-Old Infants Vaccinated with BCG at Birth** *CLINICAL & DEVELOPMENTAL IMMUNOLOGY*
  Semple, P. L., Watkins, M., Davids, V., Krensky, A. M., Hanekom, W. A., Kaplan, G., Ress, S.
  2011
- **Granulysin activates antigen-presenting cells through TLR4 and acts as an immune alarmin** *BLOOD*
  Tewary, P., Yang, D., de la Rosa, G., Li, Y., Finn, M. W., Krensky, A. M., Clayberger, C., Oppenheim, J. J.
  2010; 116 (18): 3465-3474
- **Granulysin Production and Anticryptococcal Activity Is Dependent upon a Far Upstream Enhancer That Binds STAT5 in Human Peripheral Blood CD4(+) T Cells** *JOURNAL OF IMMUNOLOGY*
  Xing, J., Wu, F., Wang, S., Krensky, A. M., Mody, C. H., Zheng, C.
  2010; 185 (9): 5074-5081
- **National Institutes of Health Center for Human Immunology Conference, September 2009.** *Annals of the New York Academy of Sciences*
  Nussenblatt, R. B., Bielekova, B., Childs, R., Krensky, A., Strober, W., Trinchieri, G.
  2010; 1200: E1-23
- **Ten Years of the Immune Tolerance Network: An Integrated Clinical Research Organization** *SCIENCE TRANSLATIONAL MEDICINE*
  Bluestone, J. A., Krensky, A. M., Turka, L. A., Rotrosen, D., Matthews, J. B.
  2010; 2 (19)
- **A HUMAN T CELL-SPECIFIC MOLECULE IS A MEMBER OF A NEW GENE FAMILY (Reprinted from vol 141, pg 1018-1025, 1988)** *JOURNAL OF IMMUNOLOGY*
  Schall, T. J., Jongstra, J., Dyer, B. J., Jorgensen, J., Clayberger, C., Davis, M. M., Krensky, A. M.
  2009; 182 (7): 3947-3954
- **Biology and clinical relevance of granulysin** *TISSUE ANTIGENS*
  Krensky, A. M., CLAYBERGER, C.
  2009; 73 (3): 193-198
- **XCL1 enhances regulatory activities of CD4(+)CD25(high)CD127(low/-) T cells in human allergic asthma** *JOURNAL OF IMMUNOLOGY*
  Nguyen, K. D., Fohner, A., Booker, J. D., Dong, C., Krensky, A. M., Nadeau, K. C.
  2008; 181 (8): 5386-5395
- **Late expression of granulysin by microbicidal CD4(+) T cells requires PI3K- and STAT5-dependent expression of IL-2R beta that is defective in HIV-infected patients** *JOURNAL OF IMMUNOLOGY*
  Zheng, C. F., Jones, G. J., Shi, M., Wiseman, J. C., Marr, K. J., Berenger, B. M., Huston, S. M., Gill, M. J., Krensky, A. M., Kubes, P., Mody, C. H.
  2008; 180 (11): 7221-7229
- **In vitro and in vivo antimicrobial activity of granulysin-derived peptides against Vibrio cholerae** *JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY*
  Galvao da Silva, A. P., Unks, D., Lyu, S., Ma, J., Zbozien-Pacamaj, R., Chen, X., Krensky, A. M., Clayberger, C.
  2008; 61 (5): 1103-1109
- **IL-24 modulates IFN-gamma expression in patients with tuberculosis** *IMMUNOLOGY LETTERS*
  Wu, B., Huang, C., Kato-Maeda, M., Hopewell, P. C., Daley, C. L., Krensky, A. M., Clayberger, C.
  2008; 117 (1): 57-62
- **IL-9 is associated with an impaired Th1 immune response in patients with tuberculosis** *CLINICAL IMMUNOLOGY*
  Wu, B., Huang, C., Kato-Maeda, M., Hopewell, P. C., Daley, C. L., Krensky, A. M., Clayberger, C.

2008; 126 (2): 202-210

- **Visiting a forest, but not a city, increases human natural killer activity and expression of anti-cancer proteins** *INTERNATIONAL JOURNAL OF IMMUNOPATHOLOGY AND PHARMACOLOGY*
  Li, Q., Morimoto, K., Kobayashi, M., Inagaki, H., Katsumata, M., Hirata, Y., Hirata, K., Suzuki, H., Li, Y. J., Wakayama, Y., Kawada, T., Park, B. J., Ohira, et al
  2008; 21 (1): 117-127

- **Altered phosphorylated signal transducer and activator of transcription profile of CD4(+)CD161(+) T cells in asthma: Modulation by allergic status and oral corticosteroids** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
  Gernez, Y., Tirouvanziam, R., Nguyen, K. D., Herzenberg, L. A., Krensky, A. M., Nadeau, K. C.
  2007; 120 (6): 1441-1448

- **Biophysical analysis of the interaction of granulysin-derived peptides with enterobacterial endotoxins** *BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES*
  Chen, X., Howe, J., Andrae, J., Roessle, M., Richter, W., da Silva, A. P., Krensky, A. M., Clayberger, C., Brandenburg, K.
  2007; 1768 (10): 2421-2431

- **Alan Krensky interview. Drawing a map for the twenty-seven divisions in NIH's army.** *Science*
  Krensky, A., Kaiser, J.
  2007; 317 (5840): 887-?

- **Unique gene expression profiles in infants vaccinated with different strains of Mycobacterium bovis bacille Calmette-Guerin** *INFECTION AND IMMUNITY*
  Wu, B., Huang, C., Garcia, L., Ponce de Leon, A., Sifuentes Osornio, J., Bobadilla-del-Valle, M., Ferreira, L., Canizales, S., Small, P., Kato-Maeda, M., Krens, A. M., Clayberger, C.
  2007; 75 (7): 3658-3664

- **Decreased serum granulysin levels in childhood tuberculosis which reverse after therapy** *TUBERCULOSIS*
  Di Liberto, D., Buccheri, S., Caccamo, N., Meraviglia, S., Romano, A., Di Carlo, P., Titone, L., Dieli, F., Krensky, A. M., Salerno, A.
  2007; 87 (4): 322-328

- **CD96 is a leukemic stem cell-specific marker in human acute myeloid leukemia** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Hosen, N., Park, C. Y., Tatsumi, N., Oji, Y., Sugiyama, H., Gramatzki, M., Krensky, A. M., Weissman, I. L.
  2007; 104 (26): 11008-11013

- **Interaction of PRP4 with Kruppel-like factor 13 regulates CCL5 transcription** *JOURNAL OF IMMUNOLOGY*
  Huang, B., Ahn, Y., McPherson, L., Clayberger, C., Krensky, A. M.
  2007; 178 (11): 7081-7087

- **Kruppel-like transcription factor 13 regulates T lymphocyte survival in vivo** *JOURNAL OF IMMUNOLOGY*
  Zhou, M., McPherson, L., Feng, D., Song, A., Dong, C., Lyu, S., Zhou, L., Shi, X., Ahn, Y., Wang, D., Clayberger, C., Krensky, A. M.
  2007; 178 (9): 5496-5504

- **Forest bathing enhances human natural killer activity and expression of anti-cancer proteins.** *International journal of immunopathology and pharmacology*
  Li, Q., Morimoto, K., Nakadai, A., Inagaki, H., Katsumata, M., Shimizu, T., Hirata, Y., Hirata, K., Suzuki, H., Miyazaki, Y., Kagawa, T., Koyama, Y., Ohira, et al
  2007; 20 (2): 3-8

- **Messenger RNA expression of IL-8, FOXP3, and IL-12 beta differentiates latent tuberculosis infection from disease** *JOURNAL OF IMMUNOLOGY*
  Wu, B., Huang, C., Kato-Maeda, M., Hopewell, P. C., Daley, C. L., Krensky, A. M., Clayberger, C.
  2007; 178 (6): 3688-3694

- **Cytotoxic CD4(+) T cells use granulysin to kill Cryptococcus neoformans, and activation of this pathway is defective in HIV patients** *BLOOD*
  Zheng, C. F., Ma, L. L., Jones, G. J., Gill, M. J., Krensky, A. M., Kubes, P., Mody, C. H.
  2007; 109 (5): 2049-2057

- **Mechanisms of disease: regulation of RANTES (CCL5) in renal disease** *NATURE CLINICAL PRACTICE NEPHROLOGY*
  Krensky, A. M., Ahn, Y.
  2007; 3 (3): 164-170

- **Healthy lifestyles are associated with higher levels of perforin, granulysin and granzymes A/B-expressing cells in peripheral blood lymphocytes** *PREVENTIVE MEDICINE*
  Li, Q., Morimoto, K., Nakadai, A., Qu, T., Matsushima, H., Katsumata, M., Shimizu, T., Inagaki, H., Hirata, Y., Hirata, K., Kawada, T., Lu, Y., Nakayama, et al
  2007; 44 (2): 117-123

- **Dynamic interplay of transcriptional machinery and chromatin regulates "late" expression of the chemokine RANTES in T lymphocytes** *MOLECULAR AND CELLULAR BIOLOGY*
  Ahn, Y., Huang, B., McPherson, L., Clayberger, C., Krensky, A. M.
  2007; 27 (1): 253-266

- **Granulysin-mediated tumor rejection in transgenic mice** *JOURNAL OF IMMUNOLOGY*
  Huang, L. P., Lyu, S., Clayberger, C., Krensky, A. M.
  2007; 178 (1): 77-84

- **Cutting edge: Decreased accumulation and regulatory function of CD4(+)CD25(high) T cells in human STAT 5b deficiency** *JOURNAL OF IMMUNOLOGY*
  Cohen, A. C., Nadeau, K. C., Tu, W., Hwa, V., Dionis, K., Bezrodnik, L., Teper, A., Gaillard, M., Heinrich, J., Krensky, A. M., Rosenfeld, R. G., Lewis, D. B.
  2006; 177 (5): 2770-2774

- **Phytoncides (wood essential oils) induce human natural killer cell activity** *IMMUNOPHARMACOLOGY AND IMMUNOTOXICOLOGY*
  Li, Q., Nakadai, A., Matsushima, H., Miyazaki, Y., Krensky, A. M., Kawada, T., Morimoto, K.
  2006; 28 (2): 319-333

- **Cell selectivity correlates with membrane-specific interactions: A case study on the antimicrobial peptide G15 derived from granulysin** *BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES*
  Ramamoorthy, A., Thennarasu, S., Tan, A., Lee, D., Clayberger, C., Krensky, A. M.
  2006; 1758 (2): 154-163

- **Coordinate expression of CC chemokine ligand 5, granulysin, and perforin in CD8(+) T cells provides a host defense mechanism against Mycobacterium tuberculosis** *JOURNAL OF IMMUNOLOGY*
  Stegelmann, F., Bastian, M., Swoboda, K., Bhat, R., Kiessler, V., KRENSKY, A. M., Roellinghoff, M., Modlin, R. L., Stenger, S.
  2005; 175 (11): 7474-7483

- **Dimethyl 2,2-dichlorovinyl phosphate (DDVP) markedly decreases the expression of perforin, granzyme A and granulysin in human NK-92CI cell line** *TOXICOLOGY*
  Li, Q., Nakadai, A., Ishizaki, M., Morimoto, K., Ueda, A., KRENSKY, A. M., Kawada, T.
  2005; 213 (1-2): 107-116

- **Granulysin: A novel host defense molecule** *AMERICAN JOURNAL OF TRANSPLANTATION*
  Krensky, A. M., CLAYBERGER, C.
  2005; 5 (8): 1789-1792

- **Glycosylated recombinant human XCL1/lymphotactin exhibits enhanced biologic activity** *JOURNAL OF IMMUNOLOGICAL METHODS*
  Dong, C., Chua, A., Ganguly, S., KRENSKY, A. M., Clayberger, C.
  2005; 302 (1-2): 136-144

- **Transactivation of the CCL5/RANTES gene by Epstein-Barr virus latent membrane protein (Retracted article. See vol. 129, pg. 2762, 2011)** *INTERNATIONAL JOURNAL OF CANCER*
  Uchihara, J. N., KRENSKY, A. M., Matsuda, T., Kawakami, H., Okudaira, T., Masuda, M., Ohta, T., Takasu, N., Mori, N.
  2005; 114 (5): 747-755

- **Granulysin, a cytolytic molecule, is also a chemoattractant and proinflammatory activator** *JOURNAL OF IMMUNOLOGY*
  Deng, A. M., Chen, S. X., Li, Q., Lyu, S. C., CLAYBERGER, C., Krensky, A. M.
  2005; 174 (9): 5243-5248

- **A novel apoptosis pathway activated by the carboxyl terminus of p21** *BLOOD*
  Dong, C., Li, Q., Lyu, S. C., KRENSKY, A. M., Clayberger, C.
  2005; 105 (3): 1187-1194

- **Hemolysis of erythrocytes by granulysin-derived peptides but not by granulysin** *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY*
  Li, Q., Dong, C., Deng, A. M., Katsumata, M., Nakadai, A., Kawada, T., Okada, S., CLAYBERGER, C., Krensky, A. M.
  2005; 49 (1): 388-397

- **Lesional T cells and dermal dendrocytes in psoriasis plaque express increased levels of granulysin** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*
  Raychaudhuri, S. P., Jiang, W. Y., Raychaudhuri, S. K., Krens, A. M.
  2004; 51 (6): 1006-1008

- **Elevated expression of CCL5/RANTES in adult T-cell leukemia cells: Possible transactivation of the CCL5 gene by human T-cell leukemia virus type I tax** *INTERNATIONAL JOURNAL OF CANCER*
  Mori, N., KRENSKY, A. M., Ohshima, K., Tomita, M., Matsuda, T., Ohta, T., Yamada, Y., Tomonaga, M., Ikeda, S., Yamamoto, N.
  2004; 111 (4): 548-557

- **NK cells use perforin rather than granulysin for anticryptococcal activity** *JOURNAL OF IMMUNOLOGY*
  Ma, L. L., Wang, C. L., Neely, G. G., Epelman, S., KRENSKY, A. M., Mody, C. H.
  2004; 173 (5): 3357-3365

- **gamma delta T cells inhibit in vitro growth of the asexual blood stages of Plasmodium falciparum by a granule exocytosis-dependent cytotoxic pathway that requires granulysin** *EUROPEAN JOURNAL OF IMMUNOLOGY*
  Farouk, S. E., Mincheva-Nilsson, L., KRENSKY, A. M., Dieli, F., Troye-Blomberg, M.
  2004; 34 (8): 2248-2256

- **DQ 65-79, a peptide derived from HLA class II, mimics p21 to block T cell proliferation** *JOURNAL OF IMMUNOLOGY*
  Dong, C., Lyu, S. C., KRENSKY, A. M., CLAYBERGER, C.
  2003; 171 (10): 5064-5070

- **Granulysin** *CURRENT OPINION IN IMMUNOLOGY*
  CLAYBERGER, C., KRENSKY, A. M.
  2003; 15 (5): 560-565

- **Intracellular mediators of granulysin-induced cell death** *JOURNAL OF IMMUNOLOGY*
  Okada, S., Li, Q., Whitin, J. C., CLAYBERGER, C., Krensky, A. M.
  2003; 171 (5): 2556-2562

- **Helicobacter pylori induces RANTES through activation of NF-kappa B.** *Infection and immunity*
  Mori, N., Krensky, A. M., Geleziunas, R., Wada, A., Hirayama, T., Sasakawa, C., Yamamoto, N.
  2003; 71 (7): 3748-3756

- **Human NKT cells express granulysin and exhibit antimycobacterial activity** *JOURNAL OF IMMUNOLOGY*
  Gansert, J. L., Kiessler, V., Engele, M., Wittke, F., Rollinghoff, M., KRENSKY, A. M., Porcelli, S. A., Modlin, R. L., Stenger, S.
  2003; 170 (6): 3154-3161

- **CD40 ligand trimer enhances the response of CD8(+) T cells to Mycobacterium tuberculosis** *JOURNAL OF IMMUNOLOGY*
  Samten, B., Wizel, B., Shams, H., Weis, S. E., Klucar, P., Wu, S. P., Vankayalapati, R., Thomas, E. K., Okada, S., KRENSKY, A. M., Barnes, P. F.
  2003; 170 (6): 3180-3186

- **Society for Pediatric Research Presidential Address 2002: First principles** *PEDIATRIC RESEARCH*
  KRENSKY, A. M.
  2003; 53 (3): 513-515

- **Granulysin crystal structure and a structure-derived lytic mechanism** *JOURNAL OF MOLECULAR BIOLOGY*
  Anderson, D. H., Sawaya, M. R., Cascio, D., Ernst, W., Modlin, R., Krensky, A., Eisenberg, D.
  2003; 325 (2): 355-365

- **Selective depression of interferon-gamma and granulysin production with increase of proliferative response by V gamma 9/V delta T cells in children with tuberculosis** *JOURNAL OF INFECTIOUS DISEASES*

Dieli, F., Sireci, G., Caccamo, N., Di Sano, C., Titone, L., Romano, A., Di Carlo, P., Barera, A., Accardo-Palumbo, A., KRENSKY, A. M., Salerno, A.
2002; 186 (12): 1835-1839

- **CD8 T cell-mediated killing of Cryptococcus neoformans requires granulysin and is dependent on CD4 T cells and IL-15** *JOURNAL OF IMMUNOLOGY*
  Ma, L. L., Spurrell, J. C., Wang, J. F., Neely, G. G., Epelman, S., KRENSKY, A. M., Mody, C. H.
  2002; 169 (10): 5787-5795
- **Identification of epitopes of Mycobacterium tuberculosis 16-kDa protein recognized by human leukocyte antigen-A*0201 CD8(+) T lymphocytes** *JOURNAL OF INFECTIOUS DISEASES*
  Caccamo, N., Milano, S., Di Sano, C., Cigna, D., Ivanyi, J., KRENSKY, A. M., Dieli, F., Salerno, A.
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- **Functional domains and DNA-binding sequences of RFLAT-1/KLF13, a Kruppel-like transcription factor of activated T lymphocytes** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Song, A., Patel, A., Thamatrakoln, K., Liu, C., Feng, D. D., CLAYBERGER, C., KRENSKY, A. M.
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- **A translational rheostat for RFLAT-1 regulates RANTES expression in T lymphocytes** *JOURNAL OF CLINICAL INVESTIGATION*
  Nikolcheva, T., Pyronnet, S., Chou, S. Y., Sonenberg, N., Song, A., CLAYBERGER, C., Krensky, A. M.
  2002; 110 (1): 119-126
- **DQ 65-79, a peptide derived from HLA class II, induces I kappa B expression** *JOURNAL OF IMMUNOLOGY*
  Jiang, Y., Chen, D., Lyu, S. C., Ling, X. F., KRENSKY, A. M., Clayberger, C.
  2002; 168 (7): 3323-3328
- **A T cell-specific enhancer of the human CD40 ligand gene** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Schubert, L. A., Cron, R. Q., Cleary, A. M., Brunner, M., Song, A., Lu, L. S., JULLIEN, P., KRENSKY, A. M., Lewis, D. B.
  2002; 277 (9): 7386-7395
- **Granulysin-dependent killing of intracellular and extracellular Mycobacterium tuberculosis by V gamma 9/V delta 2 T lymphocytes** *11th International Congress of Immunology*
  Dieli, F., Troye-Blomberg, M., Ivanyi, J., Fournie, J. J., KRENSKY, A. M., Bonneville, M., Peyrat, M. A., Caccamo, N., Sireci, G., Salerno, A.
  UNIV CHICAGO PRESS.2001: 1082–85
- **Chemokines and allograft rejection: Narrowing the list of suspects** *TRANSPLANTATION*
  Nelson, P. J., KRENSKY, A. M.
  2001; 72 (7): 1195-1197
- **Immunologic tolerance** *PEDIATRIC NEPHROLOGY*
  KRENSKY, A. M.
  2001; 16 (8): 675-679
- **A role of the mitochondrial apoptosis-inducing factor in granulysin-induced apoptosis** *JOURNAL OF IMMUNOLOGY*
  PARDO, J., Perez-Galan, P., Gamen, S., Marzo, I., Monleon, O., Kaspar, A. A., Susin, S. A., Kroemer, G., KRENSKY, A. M., Naval, J., Anel, A.
  2001; 167 (3): 1222-1229
- **A distinct pathway of cell-mediated apoptosis initiated by granulysin** *JOURNAL OF IMMUNOLOGY*
  Kaspar, A. A., Okada, S., Kumar, J., Poulain, F. R., Drouvalakis, K. A., Kelekar, A., Hanson, D. A., Kluck, R. M., Hitoshi, Y., Johnson, D. E., Froelich, C. J., Thompson, C. B., Newmeyer, et al
  2001; 167 (1): 350-356
- **Chemokines, chemokine receptors, and allograft rejection** *IMMUNITY*
  Nelson, P. J., KRENSKY, A. M.
  2001; 14 (4): 377-386
- **A non-peptide functional antagonist of the CCR1 chemokine receptor is effective in rat heart transplant rejection** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Horuk, R., CLAYBERGER, C., KRENSKY, A. M., Wang, Z. H., Grone, H. J., Weber, C., Weber, K. S., Nelson, P. J., May, K., Rosser, M., Dunning, L., Liang, M., Buckmann, et al
  2001; 276 (6): 4199-4204

- **Granulysin: a novel antimicrobial** *EXPERT OPINION ON INVESTIGATIONAL DRUGS*
  Kumar, J., Okada, S., CLAYBERGER, C., KRENSKY, A. M.
  2001; 10 (2): 321-329

- **T-cell release of granulysin contributes to host defense in leprosy** *NATURE MEDICINE*
  OCHOA, M. T., Stenger, S., Sieling, P. A., Thoma-Uszynski, S., Sabet, S., Cho, S. G., KRENSKY, A. M., Rollinghoff, M., Sarno, E. N., Burdick, A. E., Rea, T. H., Modlin, R. L.
  2001; 7 (2): 174-179

- **Granulysin expression is a marker for acute rejection and steroid resistance in human renal transplantation** *HUMAN IMMUNOLOGY*
  Sarwal, M. M., Jani, A., Chang, S., Huie, P., Wang, Z., Salvatierra, O., CLAYBERGER, C., Sibley, R., KRENSKY, A. M., Pavlakis, M.
  2001; 62 (1): 21-31

- **Granulysin blocks replication of varicella-zoster virus and triggers apoptosis of infected cells** *VIRAL IMMUNOLOGY*
  Hata, A., Zerboni, L., Sommer, M., Kaspar, A. A., CLAYBERGER, C., KRENSKY, A. M., Arvin, A. M.
  2001; 14 (2): 125-133

- **Granulysin, a T cell product, kills bacteria by altering membrane permeability** *JOURNAL OF IMMUNOLOGY*
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