

Carol Clayberger

Professor (Research) of Pediatrics, Emerita
Pediatrics - Immunology

Bio

ACADEMIC APPOINTMENTS

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

PROFESSIONAL EDUCATION

- A.B., Mount Holyoke College , Biology (1974)
- Ph.D., Yale University , Cell Biology (1979)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

T lymphocytes play a central role in the adaptive immune response. Understanding the biology of the response of T cells to immune challenge should allow the development of new diagnostics and therapeutics to treat human disease. Research in my group is focuses on three areas:

1. Granulysin, a small molecule expressed by activated T cells and NK cells, lyses tumors and a variety of pathogens, including bacteria, fungi, and parasites. We have shown that synthetic peptides corresponding to linear regions of granulysin can recapitulate the lytic activity of the intact molecule. Substitution of critical residues resulted in mutant peptides that lyse pathogens but do not kill mammalian cells. We are currently developing granulysin derivatives as a new type of antibiotic as well as studying the mechanisms involved in granulysin induced cell death.
2. Tuberculosis kills more than 3,000,000 people each year. However, little is understood about the immune response to *Mycobacterium tuberculosis*, the bacterium that causes the disease. We are characterizing the immune response to individual antigens from *Mycobacterium tuberculosis* in lymphocytes from individuals with disease or who have been infected with *Mycobacterium tuberculosis* but do not develop tuberculosis. Correlates of protective immunity are critical to the development of an improved vaccine for tuberculosis.
3. Lymphotactin is a chemokine that is expressed in both activated and anergic T cells. Lymphocytes treated with lymphotactin are refractory to stimulation, suggesting that lymphotactin may be used to induce tolerance in vivo. Studies are ongoing to define the role of lymphotactin in the immune response in vitro and in vivo and to use this information to develop new tolerance inducing modalities.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)

Publications

PUBLICATIONS

- **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
- **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
- **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
- **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
- **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
- **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
- **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

- **Protein kinase B/Akt is essential for the insulin- but not progesterone-stimulated resumption of meiosis in Xenopus oocytes** *BIOCHEMICAL JOURNAL*
Andersen, C. B., Sakaue, H., Nedachi, T., Kovacina, K. S., CLAYBERGER, C., Conti, M., Roth, R. A.
2003; 369: 227-238
- **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., Thamtrakoln, K., Liu, C., Feng, D. D., CLAYBERGER, C., KRENSKY, A. M.
2002; 277 (33): 30055-30065
- **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 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
- **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
- **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*
Ernst, W. A., Thoma-Uszynski, S., Teitelbaum, P., Ko, C., Hanson, D. A., CLAYBERGER, C., KRENSKY, A. M., Leippe, M., Bloom, B. R., Ganz, T., Modlin, R. L.
2000; 165 (12): 7102-7108
- **An immunosuppressive and anti-inflammatory HLA class I-derived peptide binds vascular cell adhesion molecule-1** *TRANSPLANTATION*
Ling, X. F., Tamaki, T., Xiao, Y., Kamangar, S., CLAYBERGER, C., Lewis, D. B., KRENSKY, A. M.
2000; 70 (4): 662-667
- **Bactericidal and tumoricidal activities of synthetic peptides derived from granulysin** *JOURNAL OF IMMUNOLOGY*
Wang, Z., Choice, E., Kaspar, A., Hanson, D., Okada, S., Lyu, S. C., KRENSKY, A. M., CLAYBERGER, C.
2000; 165 (3): 1486-1490
- **Proliferating cell nuclear antigen as the cell cycle sensor for an HLA-derived peptide blocking T cell proliferation** *JOURNAL OF IMMUNOLOGY*
Ling, X. F., Kamangar, S., Boytim, M. L., Kelman, Z., Huie, P., Lyu, S. C., Sibley, R. K., Hurwitz, J., CLAYBERGER, C., KRENSKY, A. M.
2000; 164 (12): 6188-6192
- **A human class II MHC-derived peptide antagonizes phosphatidylinositol 3-kinase to block IL-2 signaling** *JOURNAL OF CLINICAL INVESTIGATION*

- Boytim, M. L., Lilly, P., Drouvalakis, K., Lyu, S. C., Jung, R., KRENSKY, A. M., Clayberger, C.
2000; 105 (10): 1447-1453
- **A novel method for measuring CTL and NK cell-mediated cytotoxicity using annexin V and two-color flow cytometry** *JOURNAL OF IMMUNOLOGICAL METHODS*
Goldberg, J. E., SHERWOOD, S. W., CLAYBERGER, C.
1999; 224 (1-2): 1-9
 - **Inhibition of cell cycle progression by a synthetic peptide corresponding to residues 65-79 of an HLA class II sequence: Functional similarities but mechanistic differences with the immunosuppressive drug rapamycin** *JOURNAL OF IMMUNOLOGY*
Boytim, M. L., Lyu, S. C., Jung, R., KRENSKY, A. M., CLAYBERGER, C.
1998; 160 (5): 2215-2222
 - **Interactions of HLA-B*4801 with peptide and CD8** *TISSUE ANTIGENS*
MARTINEZNAVES, E., Barber, L. D., Madrigal, J. A., Vullo, C. M., CLAYBERGER, C., Lyu, S. C., Williams, R. C., Gorodezky, C., Markow, T., PETZLERLER, M. L., Parham, P.
1997; 50 (3): 258-264
 - **HLA-derived peptides as novel immunosuppressives** *NEPHROLOGY DIALYSIS TRANSPLANTATION*
KRENSKY, A. M., CLAYBERGER, C.
1997; 12 (5): 865-868
 - **Immunomodulation by HLA class I-derived peptides** *2nd International Conference on New Trends in Clinical and Experimental Immunosuppression*
KRENSKY, A. M., CLAYBERGER, C.
ELSEVIER SCIENCE INC.1996: 3026-28
 - **Immunologic tolerance: Tailored antigen** *1st International Cybercongress - Transplantation in the next Millennium: A Landmark in Organ Transplantation Technology*
KRENSKY, A. M., CLAYBERGER, C.
ELSEVIER SCIENCE INC.1996: 2075-77
 - **Tumor-specific, cytotoxic T-lymphocyte response after idiotypic vaccination for B-cell, non-Hodgkin's lymphoma** *BLOOD*
Nelson, E. L., Li, X. B., Hsu, F. J., Kwak, L. W., Levy, R., CLAYBERGER, C., KRENSKY, A. M.
1996; 88 (2): 580-589
 - **HLA-derived peptides which inhibit T cell function bind to members of the heat-shock protein 70 family** *JOURNAL OF EXPERIMENTAL MEDICINE*
Nossner, E., Goldberg, J. E., Naftzger, C., Lyu, S. C., CLAYBERGER, C., KRENSKY, A. M.
1996; 183 (2): 339-348
 - **Human CD4(+) and CD8(+) T lymphocytes are both cytotoxic to Toxoplasma gondii-infected cells** *INFECTION AND IMMUNITY*
Montoya, J. G., Lowe, K. E., CLAYBERGER, C., Moody, D., Do, D., Remington, J. S., Talib, S., Subauste, C. S.
1996; 64 (1): 176-181
 - **Structure of HLA molecules and immunosuppressive effects of HLA derived peptides.** *International reviews of immunology*
KRENSKY, A. M., CLAYBERGER, C.
1996; 13 (3): 173-185
 - **IMMUNOSUPPRESSIVE PEPTIDES CORRESPONDING TO MHC CLASS-I SEQUENCES** *CURRENT OPINION IN IMMUNOLOGY*
CLAYBERGER, C., KRENSKY, A. M.
1995; 7 (5): 644-648
 - **IN-VIVO STUDIES OF THE MAINTENANCE OF PERIPHERAL TRANSPLANT TOLERANCE AFTER CYCLOSPORINE - RADIOSENSITIVE ANTIGEN-SPECIFIC SUPPRESSOR CELLS MEDIATE LASTING GRAFT PROTECTION AGAINST PRIMED EFFECTOR-CELLS** *TRANSPLANTATION*
Nisco, S. J., Hissink, R. J., Vriens, P. W., Hoyt, E. G., Reitz, B. A., CLAYBERGER, C.
1995; 59 (10): 1444-1452
 - **HLA-DERIVED PEPTIDES AS NOVEL IMMUNOTHERAPEUTICS** *CLINICAL IMMUNOLOGY AND IMMUNOPATHOLOGY*
KRENSKY, A. M., CLAYBERGER, C.

1995; 75 (2): 112-116

- **HUMAN-LEUKOCYTE ANTIGEN-DERIVED PEPTIDES AS NOVEL IMMUNOSUPPRESSIVES** *PROCEEDINGS OF THE ASSOCIATION OF AMERICAN PHYSICIANS*
KRENSKY, A. M., CLAYBERGER, C.
1995; 107 (1): 81-85
- **PROLONGATION OF ALLOGENEIC HEART GRAFT-SURVIVAL IN RATS BY ADMINISTRATION OF A PEPTIDE (AA-75-84) FROM THE ALPHA-1 HELIX OF THE FIRST DOMAIN OF HLA-B7-01** *TRANSPLANTATION*
Cuturi, M. C., Josien, R., Douillard, P., Pannetier, C., Cantarovich, D., SMIT, H., Menoret, S., Pouletty, P., CLAYBERGER, C., Souillou, J. P.
1995; 59 (5): 661-669
- **IMMUNOMODULATION BY SOLUBLE HLA CLASS-I** *TRANSPLANTATION*
Buelow, R., Burlingham, W. J., CLAYBERGER, C.
1995; 59 (5): 649-654
- **PROLONGATION OF SKIN ALLOGRAFT SURVIVAL IN MICE FOLLOWING ADMINISTRATION OF ALLOTRAP** *13th Annual Meeting of the American-Society-of-Transplant-Physicians*
Buelow, R., Veyron, P., CLAYBERGER, C., Pouletty, P., TOURAINE, J. L.
WILLIAMS & WILKINS.1995: 455-60
- **GAMMA-DELTA T-CELL RECOGNITION OF TUMOR IG PEPTIDE** *JOURNAL OF IMMUNOLOGY*
Kim, H. T., Nelson, E. L., CLAYBERGER, C., SANJANWALA, M., Sklar, J., KRENSKY, A. M.
1995; 154 (4): 1614-1623
- **NOVEL TUMOR-ASSOCIATED ACCESSORY MOLECULES INVOLVED IN THE GAMMA/DELTA CYTOTOXIC T-LYMPHOCYTE BURKITT'S-LYMPHOMA INTERACTION** *CANCER*
Nelson, E. L., Kim, H. T., MAR, N. D., Goralski, T. J., MCINTYRE, B. W., CLAYBERGER, C., KRENSKY, A. M.
1995; 75 (3): 886-893
- **DECAMER PEPTIDE DERIVED FROM THE ALPHA-1-HELIX OF THE FIRST DOMAIN OF HLA-B7-01 PROLONGS ALLOGRAFT SURVIVAL IN RATS WITH AN INHIBITION OF GRAFT INFILTRATING CELL CYTOTOXICITY** *XVth World Congress of the Transplantation-Society*
Cuturi, M. C., Josien, R., Cantarovich, D., Douillard, P., Pannetier, C., SMIT, H., Menoret, S., Pouletty, P., CLAYBERGER, C., Souillou, J. P.
ELSEVIER SCIENCE INC.1995: 404-5
- **OVERLAP IN THE REPERTOIRES OF PEPTIDES BOUND IN-VIVO BY A GROUP OF RELATED CLASS-I HLA-B ALLOTYPES** *CURRENT BIOLOGY*
Barber, L. D., GILLECECASTRO, B., Percival, L., Li, X. B., CLAYBERGER, C., Parham, P.
1995; 5 (2): 179-190
- **ANALYSIS OF BRONCHOALVEOLAR LAVAGE FROM HUMAN LUNG-TRANSPLANT RECIPIENTS BY FLOW-CYTOMETRY** *RESPIRATORY MEDICINE*
Whitehead, B. F., STOEHR, C., Finkle, C., Patterson, G., Theodore, J., CLAYBERGER, C., Starnes, V. A.
1995; 89 (1): 27-34
- **PROSPECTS FOR INDUCTION OF TOLERANCE IN RENAL-TRANSPLANTATION** *PEDIATRIC NEPHROLOGY*
KRENSKY, A. M., CLAYBERGER, C.
1994; 8 (6): 772-779
- **THE INDUCTION OF TOLERANCE TO ALLOANTIGENS USING HLA-BASED SYNTHETIC PEPTIDES** *CURRENT OPINION IN IMMUNOLOGY*
KRENSKY, A. M., CLAYBERGER, C.
1994; 6 (5): 791-796
- **Cytokine gene expression in human cardiac allograft recipients.** *Transplant immunology*
Wu, C. J., Kurbegov, D., Lattin, B., Burchard, E., Finkle, C., Valantine, H., Billingham, M. E., Starnes, V. A., CLAYBERGER, C.
1994; 2 (3): 199-207
- **TRANSPLANTATION IMMUNOLOGY** *PEDIATRIC CLINICS OF NORTH AMERICA*
KRENSKY, A. M., CLAYBERGER, C.
1994; 41 (4): 819-839

- **PEPTIDES CORRESPONDING TO THE CD8 AND CD4 BINDING DOMAINS OF HLA MOLECULES BLOCK T-LYMPHOCYTE IMMUNE-RESPONSES IN-VITRO** *JOURNAL OF IMMUNOLOGY*
CLAYBERGER, C., Lyu, S. C., DeKruyff, R., Parham, P., KRENSKY, A. M.
1994; 153 (3): 946-951
- **TISSUE-SPECIFIC DIFFERENCES IN THE ESTABLISHMENT OF TOLERANCE - TOLEROGENIC EFFECTS OF LUNG ALLOGRAFTS IN RATS** *TRANSPLANTATION*
Vriens, P. W., Nisco, S. J., Hoyt, E. G., Lyu, S. C., Pierre, P., Reitz, B. A., CLAYBERGER, C.
1994; 57 (12): 1795-1798
- **INDUCTION OF ALLOGRAFT TOLERANCE IN RATS BY AN HLA CLASS-I-DERIVED PEPTIDE AND CYCLOSPORINE-A** *JOURNAL OF IMMUNOLOGY*
NISCO, S., Vriens, P., Hoyt, G., Lyu, S., Farfan, F., Pouletty, P., KRENSKY, A. M., CLAYBERGER, C.
1994; 152 (8): 3786-3792
- **INDUCTION OF TOLERANCE TO HEART ALLOGRAFTS IN RATS USING POSTTRANSPLANT TOTAL LYMPHOID IRRADIATION AND ANTI-CELL ANTIBODIES** *TRANSPLANTATION*
WOODLEY, S. L., Gurley, K. E., HOFFMANN, S. L., Nicolls, M. R., Hagberg, R., CLAYBERGER, C., Holm, B., Wang, X. G., Hall, B. M., Strober, S.
1993; 56 (6): 1443-1447
- **The nature of allorecognition.** *Current opinion in nephrology and hypertension*
KRENSKY, A. M., CLAYBERGER, C.
1993; 2 (6): 898-903
- **CYTOKINE GENE-EXPRESSION IN HUMAN LUNG-TRANSPLANT RECIPIENTS** *TRANSPLANTATION*
Whitehead, B. F., STOEHR, C., Wu, C. J., Patterson, G., Burchard, E. G., Theodore, J., CLAYBERGER, C., Starnes, V. A.
1993; 56 (4): 956-961
- **DISTRIBUTION OF TCR-ALPHA-BETA+ AND TCR-GAMMA-DELTA+ LYMPHOCYTES IN BRONCHOALVEOLAR LAVAGE FROM HUMAN LUNG-TRANSPLANT RECIPIENTS** *TRANSPLANTATION*
Whitehead, B. F., STOEHR, C., Finkle, C., Patterson, G., Theodore, J., CLAYBERGER, C., Starnes, V. A.
1993; 56 (4): 1031-1034
- **CELLULAR MECHANISMS UNDERLYING DIFFERENTIAL REJECTION OF SEQUENTIAL HEART AND LUNG ALLOGRAFTS IN RATS** *TRANSPLANTATION*
Moller, F., Hoyt, G., Farfan, F., Starnes, V. A., CLAYBERGER, C.
1993; 55 (3): 650-655
- **THE CD8 CORECEPTOR INTERACTION WITH THE ALPHA-3-DOMAIN OF HLA CLASS-I IS CRITICAL TO THE DIFFERENTIATION OF HUMAN CYTOTOXIC T-LYMPHOCYTES SPECIFIC FOR HLA-A2 AND HLA-CW4** *HUMAN IMMUNOLOGY*
WESLEY, P. K., CLAYBERGER, C., Lyu, S. C., KRENSKY, A. M.
1993; 36 (3): 149-155
- **PEPTIDES CORRESPONDING TO THE CD8 BINDING REGION OF HLA CLASS-I BLOCK THE DIFFERENTIATION OF CYTOTOXIC LYMPHOCYTE-T PRECURSORS** *JEAN HAMBURGER MEMORIAL CONGRESS / 14TH INTERNATIONAL CONGRESS OF THE TRANSPLANTATION SOC*
KRENSKY, A. M., Lyu, S. C., Pouletty, P., Benjamin, R., Parham, P., CLAYBERGER, C.
ELSEVIER SCIENCE INC.1993: 483-84
- **COMPUTER-ASSISTED DENSITOMETRIC ANALYSIS FOR QUANTIFICATION OF CELL-SURFACE ANTIGEN EXPRESSION IN MONKEY CARDIAC ALLOGRAFTS - CORRESPONDENCE TO HISTOPATHOLOGIC GRADE OF REJECTION** *JEAN HAMBURGER MEMORIAL CONGRESS / 14TH INTERNATIONAL CONGRESS OF THE TRANSPLANTATION SOC*
Kitamura, M., Lackides, G. A., Billingham, M. E., CLAYBERGER, C., Starnes, V. A.
ELSEVIER SCIENCE INC.1993: 924-27
- **PEPTIDES CORRESPONDING TO T-CELL RECEPTOR HLA CONTACT REGIONS INHIBIT CLASS-I RESTRICTED IMMUNE-RESPONSES** *JEAN HAMBURGER MEMORIAL CONGRESS / 14TH INTERNATIONAL CONGRESS OF THE TRANSPLANTATION SOC*
CLAYBERGER, C., Lyu, S. C., Pouletty, P., KRENSKY, A. M.
ELSEVIER SCIENCE INC.1993: 477-78
- **EFFECT OF THE SUBSTITUTION OF CRITICAL RESIDUES ON THE ALLORECOGNITION OF HLA-B27** *CLINICAL AND EXPERIMENTAL RHEUMATOLOGY*

- Ozen, S., CLAYBERGER, C., KRENSKY, A. M., Benjamin, R.
1992; 10 (6): 583-587
- **HUMAN CYTOTOXIC LYMPHOCYTES-T SPECIFIC FOR AUTOLOGOUS FOLLICULAR LYMPHOMA RECOGNIZE IMMUNOGLOBULIN IN A MAJOR HISTOCOMPATIBILITY COMPLEX RESTRICTED FASHION** *CANCER*
LUNAFINEMAN, S., Lee, J. E., WESLEY, P. K., CLAYBERGER, C., KRENSKY, A. M.
1992; 70 (8): 2181-2186
 - **CYTOKINE GENE-EXPRESSION IN REJECTING CARDIAC ALLOGRAFTS** *TRANSPLANTATION*
Wu, C. J., LOVETT, M., WONGLEE, J., Moeller, F., Kitamura, M., Goralski, T. J., Billingham, M. E., Starnes, V. A., CLAYBERGER, C.
1992; 54 (2): 326-332
 - **IDENTIFICATION AND MOLECULAR-CLONING OF TACTILE - A NOVEL HUMAN T-CELL ACTIVATION ANTIGEN THAT IS A MEMBER OF THE IG GENE SUPERFAMILY** *JOURNAL OF IMMUNOLOGY*
Wang, P. L., OFARRELL, S., CLAYBERGER, C., KRENSKY, A. M.
1992; 148 (8): 2600-2608
 - **ANCHORING POCKETS IN HUMAN HISTOCOMPATIBILITY COMPLEX LEUKOCYTE ANTIGEN (HLA) CLASS-I MOLECULES - ANALYSIS OF THE CONSERVED B-(45)-POCKET OF HLA-B27** *JOURNAL OF EXPERIMENTAL MEDICINE*
BUXTON, S. E., Benjamin, R. J., CLAYBERGER, C., Parham, P., KRENSKY, A. M.
1992; 175 (3): 809-820
 - **ASSESSMENT OF CARDIAC ALLOGRAFT-REJECTION WITH ELECTROPHYSIOLOGY OF THE CONDUCTION SYSTEM AND HISTOPATHOLOGY OF THE VENTRICLE** *11TH ANNUAL MEETING AND SCIENTIFIC SESSIONS OF THE INTERNATIONAL SOC FOR HEART TRANSPLANTATION*
Kitamura, M., Berry, G. J., Billingham, M. E., Hoyt, E. G., Gutierrez, J., CLAYBERGER, C., Starnes, V. A.
MOSBY-YEAR BOOK INC.1992: 280-88
 - **INTERLEUKIN-3 IS A GROWTH-FACTOR FOR HUMAN FOLLICULAR B-CELL LYMPHOMA** *JOURNAL OF EXPERIMENTAL MEDICINE*
CLAYBERGER, C., LUNAFINEMAN, S., Lee, J. E., Pillai, A., Campbell, M., Levy, R., KRENSKY, A. M.
1992; 175 (2): 371-376
 - **DIFFERING LYMPHOKINE PROFILES OF FUNCTIONAL SUBSETS OF HUMAN CD4 AND CD8 T-CELL CLONES** *SCIENCE*
Salgame, P., Abrams, J. S., CLAYBERGER, C., Goldstein, H., Convit, J., Modlin, R. L., Bloom, B. R.
1991; 254 (5029): 279-282
 - **GENERATION OF MONOCLONAL-ANTIBODIES AGAINST SOLUBLE HUMAN T-CELL RECEPTOR POLYPEPTIDES** *EUROPEAN JOURNAL OF IMMUNOLOGY*
DEVAUX, B., BJORKMAN, P. J., Stevenson, C., GREIF, W., ELLIOTT, J. F., Sagerstrom, C., CLAYBERGER, C., KRENSKY, A. M., DAVIS, M. M.
1991; 21 (9): 2111-2119
 - **Control of cardiac transplant rejection.** *Comprehensive therapy*
WOODLEY, S. L., CLAYBERGER, C.
1991; 17 (5): 32-38
 - **MONOCLONAL-ANTIBODIES AGAINST INTERCELLULAR-ADHESION MOLECULE-1 PROLONG CARDIAC ALLOGRAFT SURVIVAL IN CYNOMOLGUS MONKEYS** *13TH INTERNATIONAL CONGRESS OF THE TRANSPLANTATION SOC*
Flavin, T., Ivens, K., Rothlein, R., FAANES, R., CLAYBERGER, C., Billingham, M., Starnes, V. A.
ELSEVIER SCIENCE INC.1991: 533-34
 - **LYMPHOCYTE ADHESION MOLECULES IN T-CELL-MEDIATED LYSIS OF HUMAN KIDNEY-CELLS** *KIDNEY INTERNATIONAL*
Suranyi, M. G., Bishop, G. A., CLAYBERGER, C., KRENSKY, A. M., Leenaerts, P., Aversa, G., Hall, B. M.
1991; 39 (2): 312-319
 - **THE IMPORTANCE OF THE ICAM-1 LFA-1-DEPENDENT PATHWAY IN INVITRO CYTOTOXICITY AGAINST CULTURED HUMAN KIDNEY-CELLS** *7TH SCIENTIFIC CONGRESS OF THE TRANSPLANTATION SOC OF AUSTRALIA AND NEW ZEALAND*
Suranyi, M. G., Bishop, G. A., CLAYBERGER, C., KRENSKY, A. M., Leenaerts, P., Hall, B. M.
ELSEVIER SCIENCE INC.1990: 2101-2
 - **RECOGNITION OF AN HLA PUBLIC DETERMINANT (BW4) BY HUMAN ALLOGENEIC CYTOTOXIC LYMPHOCYTES-T** *JOURNAL OF IMMUNOLOGY*

- CLAYBERGER, C., Rosen, M., Parham, P., KRENSKY, A. M.
1990; 144 (11): 4172-4176
- **A BINDING-SITE FOR THE T-CELL CO-RECEPTOR CD8 ON THE ALPHA-3 DOMAIN OF HLA-A2** *NATURE*
Salter, R. D., Benjamin, R. J., WESLEY, P. K., BUXTON, S. E., Garrett, T. P., CLAYBERGER, C., KRENSKY, A. M., Norment, A. M., Littman, D. R., Parham, P.
1990; 345 (6270): 41-46
 - **LOCALIZATION OF A HUMAN T-CELL-SPECIFIC GENE, RANTES (D17S136E), TO CHROMOSOME 17Q11.2-Q12** *GENOMICS*
Donlon, T. A., KRENSKY, A. M., Wallace, M. R., Collins, F. S., LOVETT, M., CLAYBERGER, C.
1990; 6 (3): 548-553
 - **LOCALIZATION OF THE HUMAN LYMPHOCYTE-T ACTIVATION GENE-519 (D2S69E) TO CHROMOSOME 2P12-JQ11** *CYTOGENETICS AND CELL GENETICS*
Donlon, T. A., KRENSKY, A. M., CLAYBERGER, C.
1990; 53 (4): 230-231
 - **HISTAMINE REGULATES THE GENERATION OF HUMAN CYTOLYTIC LYMPHOCYTES-T** *CELLULAR IMMUNOLOGY*
Khan, M. M., KEANEY, K. M., Melmon, K. L., CLAYBERGER, C., KRENSKY, A. M.
1989; 121 (1): 60-73
 - **CYTO-TOXIC LYMPHOCYTE-T SPECIFIC FOR SELF TUMOR IMMUNOGLOBULIN EXPRESS T-CELL RECEPTOR DELTA-CHAIN** *JOURNAL OF EXPERIMENTAL MEDICINE*
Wright, A., Lee, J. E., Link, M. P., Smith, S. D., Carroll, W., Levy, R., CLAYBERGER, C., KRENSKY, A. M.
1989; 169 (5): 1557-1564
 - **POLYMORPHISM IN THE ALPHA-3 DOMAIN OF HLA-A MOLECULES AFFECTS BINDING TO CD8** *NATURE*
Salter, R. D., Norment, A. M., Chen, B. P., CLAYBERGER, C., KRENSKY, A. M., Littman, D. R., Parham, P.
1989; 338 (6213): 345-347
 - **A PANEL OF UNIQUE HLA-A2 MUTANT MOLECULES DEFINE EPITOPES RECOGNIZED BY HLA-A2-SPECIFIC ANTIBODIES AND CYTO-TOXIC LYMPHOCYTES-T** *JOURNAL OF IMMUNOLOGY*
HOGAN, K. T., CLAYBERGER, C., Bernhard, E. J., Walk, S. F., Ridge, J. P., Parham, P., KRENSKY, A. M., Engelhard, V. H.
1989; 142 (6): 2097-2104
 - **THE MOLECULAR-BASIS OF RENAL-TRANSPLANT REJECTION** *SEMINARS IN NEPHROLOGY*
KRENSKY, A. M., CLAYBERGER, C.
1989; 9 (1): 116-119
 - **EXPRESSION OF LFA-1 IN NON-HODGKINS LYMPHOMA** *CANCER*
Medeiros, L. J., Weiss, L. M., Picker, L. J., CLAYBERGER, C., Horning, S. J., KRENSKY, A. M., Warnke, R. A.
1989; 63 (2): 255-259
 - **DIVERSITY OF CLASS-I HLA MOLECULES - FUNCTIONAL AND EVOLUTIONARY INTERACTIONS WITH T-CELLS** *COLD SPRING HARBOR SYMPOSIA ON QUANTITATIVE BIOLOGY*
Parham, P., Benjamin, R. J., Chen, B. P., CLAYBERGER, C., Ennis, P. D., KRENSKY, A. M., Lawlor, D. A., Littman, D. R., Norment, A. M., Orr, H. T., Salter, R. D., ZEMMOUR, J.
1989; 54: 529-543
 - **CYTO-TOXIC LYMPHOCYTE-T-DEFINED EPITOPE DIFFERENCES BETWEEN HLA-A2.1 AND HLA-A2.2 MAP TO 2 DISTINCT REGIONS OF THE MOLECULE** *JOURNAL OF IMMUNOLOGY*
HOGAN, K. T., CLAYBERGER, C., Le, A. T., Walk, S. F., Ridge, J. P., Parham, P., KRENSKY, A. M., Engelhard, V. H.
1988; 141 (11): 4005-4011
 - **IDENTIFICATION BY SITE-DIRECTED MUTAGENESIS OF AMINO-ACID RESIDUES CONTRIBUTING TO SEROLOGIC AND CTL-DEFINED EPITOPE DIFFERENCES BETWEEN HLA-A2.1 AND HLA-A2.3** *JOURNAL OF IMMUNOLOGY*
HOGAN, K. T., CLAYBERGER, C., Bernhard, E. J., Walk, S. F., Ridge, J. P., Parham, P., KRENSKY, A. M., Engelhard, V. H.
1988; 141 (7): 2519-2525
 - **A HUMAN T-CELL-SPECIFIC MOLECULE IS A MEMBER OF A NEW GENE FAMILY** *JOURNAL OF IMMUNOLOGY*
Schall, T. J., Jongstra, J., Dyer, B. J., Jorgensen, J., CLAYBERGER, C., DAVIS, M. M., KRENSKY, A. M.

1988; 141 (3): 1018-1025

- **RESCUE OF DAUDI CELL HLA EXPRESSION BY TRANSFECTION OF THE MOUSE BETA-2-MICROGLOBULIN GENE** *JOURNAL OF EXPERIMENTAL MEDICINE*
Seong, R. H., CLAYBERGER, C. A., KRENSKY, A. M., Parnes, J. R.
1988; 167 (2): 288-299
- **RECOMBINANT GAMMA-INTERFERON INCREASES THE BINDING OF PERIPHERAL-BLOOD MONONUCLEAR LEUKOCYTES AND A LEU-3+ LYMPHOCYTE-T CLONE TO CULTURED KERATINOCYTES AND TO A MALIGNANT CUTANEOUS SQUAMOUS CARCINOMA CELL-LINE THAT IS BLOCKED BY ANTIBODY AGAINST THE LFA-1 MOLECULE** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
Nickoloff, B. J., LEWINSOHN, D. M., BUTCHER, E. C., KRENSKY, A. M., CLAYBERGER, C.
1988; 90 (1): 17-22
- **HLA-A2 PEPTIDES CAN REGULATE CYTOLYSIS BY HUMAN ALLOGENEIC LYMPHOCYTES-T** *NATURE*
CLAYBERGER, C., Parham, P., Rothbard, J., Ludwig, D. S., SCHOOLNIK, G. K., KRENSKY, A. M.
1987; 330 (6150): 763-765
- **ABSENCE OF CELL-SURFACE LFA-1 AS A MECHANISM OF ESCAPE FROM IMMUNOSURVEILLANCE** *LANCET*
CLAYBERGER, C., Medeiros, L. J., Link, M. P., Warnke, R. A., Wright, A., KOLLER, T. D., Smith, S. D., KRENSKY, A. M.
1987; 2 (8558): 533-536
- **INVITRO MUTAGENESIS AT A SINGLE RESIDUE INTRODUCES B-CELL AND T-CELL EPITOPES INTO A CLASS-I HLA MOLECULE** *JOURNAL OF EXPERIMENTAL MEDICINE*
Salter, R. D., CLAYBERGER, C., LOMEN, C. E., KRENSKY, A. M., Parham, P.
1987; 166 (1): 283-288
- **EXPRESSION OF LEU-19 (NKH-1) ANTIGEN ON IL 2-DEPENDENT CYTOTOXIC AND NONCYTOTOXIC T-CELL LINES** *JOURNAL OF IMMUNOLOGY*
Lanier, L. L., LE, A. M., Ding, A., Evans, E. L., KRENSKY, A. M., CLAYBERGER, C., Phillips, J. H.
1987; 138 (7): 2019-2023
- **HUMAN ALLOSPECIFIC CYTOLYTIC LYMPHOCYTE-T LYSIS OF A MURINE CELL TRANSFECTED WITH HLA-A2** *JOURNAL OF IMMUNOLOGY*
KOLLER, T. D., CLAYBERGER, C., Maryanski, J. L., KRENSKY, A. M.
1987; 138 (7): 2044-2049
- **IDENTIFICATION AND CHARACTERIZATION OF 2 NOVEL LYMPHOCYTE FUNCTION-ASSOCIATED ANTIGEN-L24 AND ANTIGEN-L25** *JOURNAL OF IMMUNOLOGY*
CLAYBERGER, C., KRENSKY, A. M., MCINTYRE, B. W., KOLLER, T. D., Parham, P., Brodsky, F., LINN, D. J., Evans, E. L.
1987; 138 (5): 1510-1514
- **THE ISOLATION AND SEQUENCE OF A NOVEL GENE FROM A HUMAN FUNCTIONAL T-CELL LINE** *JOURNAL OF EXPERIMENTAL MEDICINE*
Jongstra, J., Schall, T. J., Dyer, B. J., CLAYBERGER, C., Jorgensen, J., DAVIS, M. M., KRENSKY, A. M.
1987; 165 (3): 601-614
- **INHIBITION OF ALLOREACTIVE CYTOTOXIC LYMPHOCYTES-T BY PEPTIDES FROM THE ALPHA-2 DOMAIN OF HLA-A2** *NATURE*
Parham, P., CLAYBERGER, C., ZORN, S. L., Ludwig, D. S., SCHOOLNIK, G. K., KRENSKY, A. M.
1987; 325 (6105): 625-628
- **FUNCTION AND CELL DISTRIBUTION OF KC-1, A NOVEL NATURAL-KILLER CELL-ASSOCIATED ANTIGEN** *JOURNAL OF IMMUNOLOGY*
CLAYBERGER, C., DYER, B., McIntyre, B., KOLLER, T. D., Hardy, B., Parham, P., Lanier, L. L., KRENSKY, A. M.
1986; 136 (5): 1537-1541
- **MHC-UNRESTRICTED CYTOLYTIC LYMPHOCYTES-T** *SURVEY OF IMMUNOLOGIC RESEARCH*
KRENSKY, A. M., CLAYBERGER, C.
1985; 4 (4): 297-302
- **T-CELL REGULATION OF ANTIBODY-RESPONSES - AN I-A-SPECIFIC, AUTOACTIVE T-CELL COLLABORATES WITH ANTIGEN-SPECIFIC HELPER T-CELLS TO PROMOTE IGG RESPONSES** *JOURNAL OF IMMUNOLOGY*
CLAYBERGER, C., DeKruyff, R. H., Cantor, H.

1985; 134 (2): 691-694

- **DIAGNOSTIC AND THERAPEUTIC IMPLICATIONS OF T-CELL SURFACE-ANTIGENS TRANSPLANTATION** *TRANSPLANTATION*
KRENSKY, A. M., CLAYBERGER, C.
1985; 39 (4): 339-348
- **B-CELL ACTIVATION - ROLE OF DENDRITIC AND T CELL FACTORS IN THE RESPONSE TO THYMIC-INDEPENDENT AND THYMIC-DEPENDENT ANTIGENS** *JOURNAL OF IMMUNOLOGY*
DeKruyff, R., CLAYBERGER, C., Fay, R., Cantor, H.
1985; 134 (5): 2860-2866
- **EVIDENCE FOR DEFECTS IN ACCESSORY AND T-CELL SUBSETS IN MICE EXPRESSING THE XID DEFECT** *JOURNAL OF MOLECULAR AND CELLULAR IMMUNOLOGY*
CLAYBERGER, C., DeKruyff, R. H., Fay, R., Huber, B., Cantor, H.
1985; 2 (2): 61-69
- **MONOCLONAL HELPER T-CELLS INDUCE B-CELL RESPONSES TO T-INDEPENDENT ANTIGENS - ANTIGEN-SPECIFIC T-CELLS ARE DIRECTLY STIMULATED BY ACTIVATED B-CELLS IN THE ABSENCE OF ANTIGEN** *JOURNAL OF IMMUNOLOGY*
DeKruyff, R. H., CLAYBERGER, C., Cantor, H.
1985; 134 (1): 86-90
- **ACTIVATION REQUIREMENTS OF CLONED INDUCER T-CELLS .1. DIFFERENTIAL INHIBITION BY ANTI-L3T4 OR ANTI-I-A IS DETERMINED BY THE ACCESSORY CELL-POPULATION** *JOURNAL OF IMMUNOLOGY*
DeKruyff, R., CLAYBERGER, C., Cantor, H., Dorf, M. E.
1985; 135 (4): 2243-2248
- **HUMAN T-CELL CLONES EXPRESS FUNCTIONAL HOMING RECEPTORS REQUIRED FOR NORMAL LYMPHOCYTE TRAFFICKING** *JOURNAL OF EXPERIMENTAL MEDICINE*
NAVARRO, R. F., JALKANEN, S. T., HSU, M., SOENDERSTRUPHANSEN, G., GORONZY, J., WEYAND, C., FATHMAN, C. G., CLAYBERGER, C., KRENSKY, A. M., BUTCHER, E. C.
1985; 162 (3): 1075-1080
- **IDENTIFICATION OF A UNIQUE B-CELL-STIMULATING FACTOR PRODUCED BY A CLONED DENDRITIC CELL** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
CLAYBERGER, C., DeKruyff, R. H., Fay, R., Cantor, H.
1985; 82 (1): 183-187
- **TARGET SPECIFICITY AND CELL-SURFACE STRUCTURES INVOLVED IN THE HUMAN CYTOLYTIC LYMPHOCYTE-T RESPONSE TO ENDOTHELIAL-CELLS** *JOURNAL OF IMMUNOLOGY*
CLAYBERGER, C., Uyehara, T., Hardy, B., Eaton, J., Karasek, M., KRENSKY, A. M.
1985; 135 (1): 12-18
- **HERITABLE LYMPHOCYTE FUNCTION-ASSOCIATED ANTIGEN-1 DEFICIENCY - ABNORMALITIES OF CYTO-TOXICITY AND PROLIFERATION ASSOCIATED WITH ABNORMAL EXPRESSION OF LFA-1** *JOURNAL OF IMMUNOLOGY*
KRENSKY, A. M., Mentzer, S. J., CLAYBERGER, C., Anderson, D. C., Schmalstieg, F. C., Burakoff, S. J., Springer, T. A.
1985; 135 (5): 3102-3108
- **DETERMINANTS RECOGNIZED BY HUMAN CYTO-TOXIC T-CELLS ON A NATURAL HYBRID CLASS-I HLA MOLECULE** *JOURNAL OF EXPERIMENTAL MEDICINE*
CLAYBERGER, C., Holmes, N., Wang, P. L., KOLLER, T. D., Parham, P., KRENSKY, A. M.
1985; 162 (5): 1709-1714
- **INTERACTIONS OF LYMPHOCYTES-T WITH HUMAN VASCULAR ENDOTHELIAL-CELLS - ROLE OF ENDOTHELIAL-CELLS SURFACE-ANTIGENS** *IMMUNOBIOLOGY*
Pober, J. S., Gimbrone, M. A., Collins, T., Cotran, R. S., Ault, K. A., Fiers, W., KRENSKY, A. M., CLAYBERGER, C., Reiss, C. S., Burakoff, S. J.
1984; 168 (3-5): 483-494
- **IMMUNOREGULATORY ACTIVITIES OF AUTOACTIVE T-CELLS - AN I-A-SPECIFIC T-CELL CLONE MEDIATES BOTH HELP AND SUPPRESSION OF ANTIBODY-RESPONSES** *JOURNAL OF IMMUNOLOGY*
CLAYBERGER, C., DeKruyff, R. H., Cantor, H.
1984; 132 (5): 2237-2243

- **HUMAN CYTOLYTIC LYMPHOCYTE-T INTERACTIONS WITH VASCULAR ENDOTHELIUM AND FIBROBLASTS - ROLE OF EFFECTOR AND TARGET-CELL MOLECULES** *JOURNAL OF IMMUNOLOGY*
Collins, T., KRENSKY, A. M., CLAYBERGER, C., Fiers, W., Gimbrone, M. A., Burakoff, S. J., Pober, J. S.
1984; 133 (4): 1878-1884
- **IMMUNOREGULATION OF T-DEPENDENT RESPONSES BY A CLONED DENDRITIC CELL** *JOURNAL OF IMMUNOLOGY*
CLAYBERGER, C., DeKruyff, R. H., Fay, R., Pavlakis, M., Cantor, H.
1984; 133 (3): 1174-1178
- **HAPTEN-REACTIVE INDUCER T-CELLS .1. DEFINITION OF 2 CLASSES OF HAPTEN-SPECIFIC INDUCER CELLS** *JOURNAL OF EXPERIMENTAL MEDICINE*
CLAYBERGER, C., DeKruyff, R. H., Aisenberg, J., Cantor, H.
1983; 157 (6): 1906-1919
- **A DC-SPECIFIC CYTOLYTIC LYMPHOCYTE-T LINE IS OKT8+** *JOURNAL OF IMMUNOLOGY*
KRENSKY, A. M., CLAYBERGER, C., Greenstein, J. L., CRIMMINS, M., Burakoff, S. J.
1983; 131 (6): 2777-2780
- **LYMPHOCYTES RECOGNIZE HUMAN VASCULAR ENDOTHELIAL AND DERMAL FIBROBLAST IA ANTIGENS INDUCED BY RECOMBINANT IMMUNE INTERFERON** *NATURE*
Pober, J. S., Collins, T., Gimbrone, M. A., Cotran, R. S., Gitlin, J. D., Fiers, W., CLAYBERGER, C., KRENSKY, A. M., Burakoff, S. J., Reiss, C. S.
1983; 305 (5936): 726-729
- **SEQUENTIAL EXPRESSION OF NEW GENE PROGRAMS IN INDUCER T-CELL CLONES** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA-BIOLOGICAL SCIENCES*
Freeman, G. J., CLAYBERGER, C., DeKruyff, R., Rosenblum, D. S., Cantor, H.
1983; 80 (13): 4094-4098
- **Cytotoxic T cells directed against HLA-DR antigens and their surface proteins.** *Diagnostic immunology*
Burakoff, S. J., CLAYBERGER, C., HEMLER, M., KRENSKY, A. M., Reiss, C. S., Robbins, E., Sanchez-Madrid, F., Springer, T. A., STROMINGER, J. L., Ware, C. F.
1983; 1 (3): 116-119
- **HAPTEN REACTIVE INDUCER T-CELLS .2. EVIDENCE THAT A SECRETED FORM OF THE T-CELL RECEPTOR INDUCES ANTIBODY-PRODUCTION** *JOURNAL OF EXPERIMENTAL MEDICINE*
DeKruyff, R. H., CLAYBERGER, C., Cantor, H.
1983; 158 (6): 1881-1894
- **SPECIFICITY OF OKT4+ CYTO-TOXIC LYMPHOCYTE-T CLONES** *JOURNAL OF IMMUNOLOGY*
KRENSKY, A. M., CLAYBERGER, C., Reiss, C. S., STROMINGER, J. L., Burakoff, S. J.
1982; 129 (5): 2001-2003
- **REGULATION OF CYCLIC-AMP METABOLISM IN THE RAT ERYTHROCYTE DURING CHRONIC BETA-ADRENERGIC STIMULATION - EVIDENCE FOR CALMODULIN-MEDIATED ALTERATION OF MEMBRANE-BOUND PHOSPHODIESTERASE ACTIVITY** *JOURNAL OF MEMBRANE BIOLOGY*
CLAYBERGER, C. A., Goodman, D. B., Rasmussen, H.
1981; 58 (3): 191-201
- **The messenger function of calcium in cell activation.** *Symposia of the Society for Experimental Biology*
Rasmussen, H., CLAYBERGER, C., Gustin, M. C.
1979; 33: 161-197
- **Information transfer in cell activation.** *Society of General Physiologists series*
Rasmussen, H., CLAYBERGER, C.
1979; 33: 139-159