

# Newly Awarded Grants In Pathology

National Institutes of Health  
**SIG: R59** Transformation and Angiogenesis in Kaposi's Sarcoma  
**Title:** R59 Transformation and Angiogenesis in Kaposi's Sarcoma  
**Principal Investigator:** Paolo Casali, M.D.  
**Period of Support:** 1999-2001  
**Total Award:** \$150,000

Italian National Institute of Health  
**Title:** Cell Cycle and Apoptosis in Plasma Cell Tumorigenesis  
**Principal Investigator:** Andrea Cerutti, M.D.  
**Period of Support:** 1999-2001  
**Total Award:** \$130,000

Cancer Research Institute  
**Title:** Migration of macrophage-derived cells from tissues and its relationship  
**Principal Investigator:** Ardas Schaffer  
**Period of Support:** 1999-1999  
**Total Award:** \$25,000

American Heart Association  
**Title:** Molecular Biology of the Cytoskeleton in the Regulation of Cell Motility  
**Principal Investigator:** Ardas Schaffer  
**Period of Support:** 1999-2002  
**Total Award:** \$259,980

## Promotions

Dr. Syed Hoda was promoted to Associate Professor of Clinical Pathology  
 Dr. Andrew Nicholson was promoted to Associate Research Professor of Comparative Pathology  
 Dr. Davise Larone was promoted to Chief of Microbiology/Laboratory Services  
 Dr. Gwendolyn Randolph was promoted to Instructor of Pathology  
 Dr. Andrea Cerutti was promoted to Visiting Assistant Professor of Pathology

*We congratulate all of them on this professional achievement.*



# The Pathologist

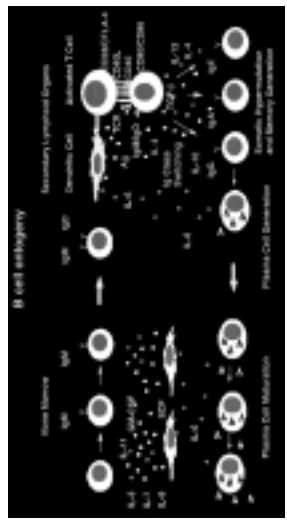
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# The Pathologist

## Research Highlights

by Paolo Casali, MD

A monoclonal model of human germinal center B cell differentiation provides crucial clues to the understanding of immunoglobulin (Ig) class switching and somatic hypermutation, the two central mechanisms in the maturation of the antibody response B cell development proceeds through an initial antigen-independent and a subsequent antigen-dependent stage. The former leads to the emergence of naive surface (s) IgM<sup>+</sup> sigB<sup>+</sup> B cells from the bone marrow, while the latter leads to the differentiation of antigen-selected B cells into plasma cells or memory cells in peripheral lymphoid tissues. The latter process is regulated by the interaction of T helper 2 (T<sub>H</sub>2) cells, spleen, and Peyer's patches (Fig. 1). Two processes are central to the generation of memory B cells and plasma cells: Ig class switching and somatic hypermutation. Both these processes are fostered by the specialized microenvironment of the



**Legend to Figure 1.** B cell ontogeny: a journey from the marrow and back. The antigen-independent stage of cell development from the bone marrow microenvironment, where germinal cell-derived IL-3, IL-7, IL-9, IL-11, SF, and GM-CSF as well as the interaction with T<sub>H</sub>2 cells induces the differentiation of multipotent stem cells into B cell precursors that undergo recombination of germ-line Ig VDJ genes into secondary lymphoid organs where antigen-dependent differentiation occurs. This stage is fostered by the interaction of T cell receptor (TCR) with antigen presented by dendritic cells, expressed CD40, and up-regulate CD40L, and secrete cytokines of B<sub>1</sub> lineage. Exposure to IL-4 and/or TGF-β induces B cell proliferation, CD80 expression, and CD82/CD80 interactions also induce somatic hypermutation of the expressed Ig VDJ genes.

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## Focus by Daniel M. Knowles, MD

I am pleased to announce that the department has been successful in recruiting two internationally renowned anatomic pathologists to join the faculty. These are Dr. Ronald DeLellis and Dr. Glauco Frizzera.

Dr. Ronald DeLellis enjoys a well deserved international reputation for his expertise and scholarly accomplishments in endocrine pathology. Dr. DeLellis graduated from Tufts University School of Medicine, and completed his residency training in anatomic pathology at the Massachusetts General Hospital and at The National Cancer Institute. His initial academic appointment was Assistant Professor of Pathology at Boston University School of Medicine. However, he joined the faculty at Tufts University School of Medicine two years later and remained there, moving up-rung through the academic ranks to Professor of Pathology 12 years later in 1985. While at the Tufts University School of Medicine, he served as Director of the Pathology Residency Program, Director of Surgical Pathology, and Director of Anatomic Pathology. Throughout his illustrious career, Dr. DeLellis has received numerous honors and awards. He has also served in an important capacity in many professional organizations. He was appointed to the Editorial Advisory Board of the Armed Forces Institute of Pathology in 1989. He has served on the American Board of Pathology and he has also served as a Member of the Council for the United States and Canadian Academy of Pathology. That same organization has also presented him with several awards in recognition of his many contributions to their educational programs. In 1997, Tufts University School of Medicine designated Dr. DeLellis a Distinguished Professor. Dr. DeLellis has served, in his capacity as editor of the American Journal of Surgical Pathology, Laboratory Investigation, and Modern Pathology, and is co-editor of Diagnostic Molecular Pathology.

Dr. Ronald DeLellis is an accomplished anatomic pathologist, with considerable experience and expertise in all areas of

general surgical pathology; however, he is best known for his scholarly accomplishments in the application of immunohistochemistry to diagnostic pathology, particularly in endocrine pathology. Dr. DeLellis has published more than 200 original scientific manuscripts. In addition, his textbook "Diagnostic Immunohistochemistry", originally published in 1984 and 1988, established him as one of the early leaders in this field. In addition, Dr. DeLellis co-authored the Armed Forces Institute of Pathology Fascicle on "Tumors of the Adrenal Gland" and "Tumors of the Thyroid Gland". Dr. DeLellis is the author of the Parathyroid "Tumors of the Parathyroid Glands" and co-authored a textbook on "Pathology of the Parathyroid and Thyroid Glands". He is a co-editor of the recently published 3 volume textbook "Principles and Practice of Surgical Pathology and Cytopathology". Dr. DeLellis has also contributed more than 40 chapters to other textbooks.



Dr. Glauco Frizzera

Dr. Ronald DeLellis has been appointed Vice Chairman for Anatomic Pathology and will be responsible for directing the Anatomic Pathology service. He will also serve on the Clinical Practice Committee of the Department and no doubt will be involved in all aspects of the education and training of residents in Anatomic Pathology and in the further development of the Anatomic Pathology service of the Department. Dr. Ronald DeLellis is an extraordinarily accomplished anatomic pathologist who brings to the Department considerable clinical diagnostic expertise and expertise scholarly accomplishment and administrative skills and a keen interest in the education of medical students and the training of pathology residents. He follows the Department's primary objective to have been able to attract this nationally recognized leader in Anatomic Pathology. Dr. Frizzera is an internationally renowned hematopathologist, who is especially expert in the pathology of lymphoid tissue. Dr. Frizzera received his medical degree from the University of Bologna

*Continued on page 10*

geminal center (GC), and both contribute to the maturation of the antibody response, although in different ways. By changing the constant H chain (C<sub>H</sub>) with a downstream C<sub>μ</sub>, class switching requires the Ig effector properties to suit those required by a maturing antibody response. Switching the C<sub>H</sub> region of the primary IgM to C<sub>γ</sub> (IgG), C<sub>α</sub> (IgA), and/or C<sub>ε</sub> (IgE) of the secondary response results in antibodies with a wider spectrum of biological activities, including binding to cell surfaces and IgM receptor, secretion through epithelia, and binding to Fcγ receptors and macrophages. By switching the constant H chain to C<sub>H</sub>2, antibodies are able to interact with the FcγR2b portion of the surface receptor for antigen, somatic hypermutation provides the structural substrate for clonal selection by the immunizing antigen, eventually giving rise to highly specific antibodies

*continued on page 11*

by and CD40 expression, and switching from IgM to IgG, IgA, and IgE. T<sub>H</sub>2 cell contact, emitting CD154/CD40 and CD82/CD80 interactions also induce somatic hypermutation of the expressed Ig VDJ genes.

ing that progression through a preparatory centroblastic stage is necessary for the activation of the switching machinery, and indicating that Ig class switching and GC phenotypic maturation are tightly regulated by a common differentiation program, the activation of which requires only CD40L:CD40 engagement, and exposure to IL-4 and IL-6.

Cl-01 cells were then used by Dr. Cerutti and Dr. Schaffer as transfectable vehicles for the functional analysis of specific DNA regions, and the identification of related cis and trans regulatory elements by targeted transcriptional reporter gene assays, a daunting task when having to rely on primarily isolated and characterized human S<sub>H</sub>g is a recent development that the region used for transfection promoter that contains CD40 and IL-4 responsive elements. These elements bind CD40 and IL-4 induced NF-κB and STAT-6, are partially overlapped, and functionally cooperative, as the disruption of one of them prevents synergistic promoter activation (Schaffer et al., J. Immunol. in press, 1999). The subsequent demonstration that the NF-κB and STAT-6 dependent engagement of these responsive elements can be effectively inhibited by engagement of an oncofetal protein by CD40L:CD40 interactions led to the identification of a novel and potent downregulatory mechanism of Ig class switching and antibody production (Cerutti et al., Immunity 9:239-246, 1998), and has opened up a whole new venue of investigation in B cell

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The Casali laboratory (Division of Molecular Immunology, Department of Pathology, Weill Medical College, Cornell University, New York, NY) with Paolo Casali, MD (Professor of Pathology and Immunology, Patricia Alessandrini (Research technician), Hong Zan, Ph.D. (Assistant Professor, P.R.C.), and Andrea Cerutti, MD (Visiting Postdoctoral Fellow from the University of Padua, Italy), Kozuyuki Masui, MD (Visiting Postdoctoral Fellow from the University of Kyushu, Fukuoka, Japan), Gerald Sliem (Senior Res. Fellow from the Bethesda Sino-American Center for Molecular Biology, P.R.C.), Michele Laverda, (Coordinator, Graduate Courses in Immunology), Andrea Schaffer, MD (Student in the

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## Residency Program by Amy Chadburn, MD

The Department is delighted to welcome seven new housestaff officers who will join us in July 1999.

Paula Anderson, M.D. is a 1998 graduate of the University of Texas Houston Health Science Center and will be joining our program at the PGY-1 level. Asya S. Ali, M.D. is a 1999 graduate of the University of Illinois College of Medicine and will be joining our program at the PGY-1 level. Christopher R. Becher, M.D. is a 1995 graduate of the University of Cape Town, South Africa. He worked in the Department of Forensic Medicine at the University of Cape Town and at the University of Michigan. He is a full board certified pathologist. Drs. Robert J. Berman and Amy Chadburn, M.D. are 1999 graduates of the University of Toronto, Canada. He did his first year of residency at the Toronto Hospital and completed his residency in 1998 at the University of Toronto. Currently, he is a clinical fellow in surgical pathology at the Mount Sinai Hospital, Toronto, Canada and will be joining our program as a Hematopathology Fellow. Enikő Réeleková, M.D. Ph.D. received her M.D. in 1994 from Omsk University in Slovakia and in 1999 she received her Ph.D. from the University of Toronto. She worked as a hematologist in Internal Medicine from the Institute of Postdoctoral Education in Slovakia. In 1995, she completed a Postdoctoral Fellowship at The Wellstep Hospital, in Toronto, Canada and in 1997 she completed a Postdoctoral Fellowship at Strong Memorial Hospital, University of Rochester in New York. Currently, she

Focus continued from page 2

Medical School in his native country of Italy. Following completion of his residency in pathology in Italy and in England, he completed a fellowship in Hematopathology with the famous hematopathologist, Professor Henry Jaccard. Upon completion of that fellowship in 1974, he was appointed Assistant Professor of Pathology at the University of Bologna. However, he decided to return to the United States where he was appointed Assistant Professor of Laboratory Medicine and Pathology at the University of Minnesota in 1977. He was promoted through the academic ranks to the title of Professor of Laboratory

is a resident at the Strong Memorial Hospital, University of Rochester and will be joining our program at the PGY-2 level. Sarati Saboo, M.D. is a 1991 graduate of SOM Medical College & Hospital in India. Subsequently, she performed an internship at the same institution followed by a pathology residency at all Irish institutions of Medical Sciences, graduating in 1993. Currently, she is resident at the New York University School of Medicine. Dr. Amy Chadburn, M.D. is a 1994 graduate of the University of Alabama at Birmingham School of Medicine. She performed her first year of residency at the University of California at Davis Medical Center, and then became a resident at the University of New Mexico Hospital. She will be joining our department as a Dermatopathology Fellow at the PGY-5 level. Finally, Hong Wu, M.D., Ph.D. is a 1988 graduate of Peking Union Medical College in Beijing China. In 1995, she obtained her Ph.D. from the University of Pennsylvania. In 1996, she completed a Postdoctoral Fellowship at Cornell University Medical College. Currently, she is a resident at the New York University Medical Center. She will be joining our department as a Dermatopathology Fellow at the PGY-4 level. We wish the best of luck to everyone.

The Department also wishes the best of luck to our departing residents. Dilip Giri, M.D. has accepted the position of Oncology Pathology Fellow at Memorial Sloan-Kettering Cancer Center. Steven Walker, M.D. has accepted the position of Surgical Pathology Fellow at the University of Michigan. Dr. Priznera has enjoyed a long and illustrious career in academic pathology, attaining international recognition for his clinical diagnostic skills and scholarly accomplishments in hematopathology. Dr.

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Maligrancies". Two abstracts reporting work originating in Dr. Ceserman's Laboratory were presented at the First Meeting on Kaposi's Sarcoma-Associated Herpesvirus and Related Agents, Santa Cruz, CA, July 1998. These included those presented by Dr. Ornella Flore, entitled: "Kaposi's Sarcoma-Associated Herpesvirus (KSHV/HHV 8) Infection Induces Long Term Proliferation and Transformation of Primary Human Endothelial Cells", and by Dr. Elizabeth Ryjek, entitled: "Kaposi's Sarcoma Associated Herpesvirus/Human Herpesvirus 8 is Present in Myelomonocytic Infections". She also attended the Annual Meeting of the American Society of Hematology, Miami Beach, FL, December, 1998, where she co-authored five abstracts, including those presented by Dr. Amy Chadburn, entitled: "vIL-6 Expression Correlates with Development of Kaposi's Sarcoma and Survival in HIV-Infected Individuals", by Dr. Ryjek, entitled: "Development of a cell line useful for serologic analysis and viral propagation", and by Dr. Flore, entitled: "KSHV/HHV-8 Acute Infection in Human Endothelial Cells". Dr. Ceserman has also had the time to serve as the Hematopathology representative for the Teaching and Education Committee of the Association for Molecular Pathology in 1998. Finally, special congratulations are in order as she received another RO-1 grant application entitled: "KSHV Transformation and Angiogenesis in Kaposi's Sarcoma".

Dr. Lora Ellenson was a panel member in a discussion group held at the Howard Hughes Medical Institute and presented a talk entitled: "The Ovarian Balance: Clinic/Research/Personal" in May 1998. In October, she also lectured on "Endometrial Cancer: Molecular Genetics through the Light Microscope" at the Strong Cancer Research Laboratory Ethical and Carcinogenesis Seminar Series. Dr. Ellenson was a Pathology Club Guest Speaker at North Shore Hospital in Marshfield, New York in December.

Dr. Rena Hoda was an invited lecturer at both North Shore University Hospital, Manhasset, New York and New York State Pathological Society in Albany. New York. Her talk at North Shore was entitled: "Application of Special Stains and Immunocytochemistry in Aspiration Biopsy Cytology" and Manhattan College of Health & Back Lectures at the NYS Pathological Society. Dr. Hoda also presented at the 46th Annual Scientific Meeting of the American Society of Cytopathology with a talk entitled: "Physical Granular Cells of Undetermined Significance: A Comparative Study

## Keynotes by Amy Chadburn, MD and Gina L. Imperato, MPA

Dr. Daniel M. Knowles, Professor and Chairman, attended the annual meeting of the International Lymphoma Study Group which was sponsored by Dr. Peter Bains and held in Asheville, North Carolina this past September, 1998. The International Lymphoma Study group was responsible for developing the revised European-American Lymphoma (REAL) classification which is now the most widely used classification for malignant lymphoma in the world. Dr. Knowles spoke on the malignant lymphomas associated with the Kaposi's Sarcoma-Associated Herpesvirus. Dr. Knowles lectured on Immunodeficiency-Associated Lymphomas\* at the New York Pathological Society meeting held on October 15, 1998. One of Dr. Knowles' former fellows, Dr. Jim Weisberger, presented a slide seminar the same evening. Dr. Knowles also attended the Northeast Pathology Chair's Group meeting in Bethesda in October, 1998. There the group focused their discussions on the value of the clinical pathologist in laboratory medicine, the challenges facing students, and new/wor issues in pathology. The annual Postgraduate Course "Tutorial on Neoplastic Hematopathology" sponsored by our Department was once again directed by Dr. Knowles. The course, held in Miami Florida in February 1999, was very successful. Registration was full with approximately 150 pathologists, hematologists, oncologists, residents and fellows attending the five day course. Dr. Knowles lectured on "The Pathology of Acquired Immune Deficiency Syndrome" at the course.

Congratulations to Dr. M. Desmond Burke, Vice Chairman for Laboratory Medicine, who was recipient of the 1998 Academy of Clinical Laboratory Physicians and Scientists "Cottivo Lectureship Award" at the annual meeting of the Academy in Boston on June 12, 1998. Dr. Burke also received the American Society of Clinical Pathologists "Ward Burdick Award for Distinguished Service to Clinical Pathology" at the annual meeting of the Society in Washington, D.C. on October 18, 1998.

Congratulations to Dr. Domenick Falcone who has been elected the first Thomas H. McKie Jr. Associate Professor of Medical Education, effective October 1, 1998. This is an endowed professorship established through a \$2 million gift from the Macy Foundation. Dr. Falcone is especially deserving of this honor in light of his many contributions to the education of our medical students.

This action was taken on the recommendation of the Board of Overseers.

Dr. Christina Isaacson was an invited lecturer at the Ocular Institute for Ophthalmics and Ophthalmology Review Course in Mt. Laurel, NJ, in September 1998. Her talks were entitled: "Vulvar and Vaginal Pathology" and "Ovarian Pathology".

Dr. Rebecca Bergen presented a talk entitled: "The Clinicopathologic Correlation of the Umbilical Cord Pathology" at Grand Rounds for the Department of Obstetrics and Gynecology at New York Presbyterian Hospital. She also presented a talk entitled: "Overview of Human Placental Workshop" at The Havemeyer Foundation Workshop of Equine Placentitis in an October 1998. Dr. Bergen was also featured in an article entitled: "Dor's New Line on Placenta: Save and Study" in the Daily News on March 14, 1999.

Dr. Ethel Ceserman has been busy traveling as an invited lecturer. In June 1998, she presented a lecture entitled: "Transformation of Primary Human Endothelial Cells by Kaposi's Sarcoma-Associated Herpesvirus (KSHV/HHV 8)" at the 1998 EBV Association Meeting on Tumor Associated Herpesviruses, in Stockholm, Sweden. In August 1998, she was invited to present her work at the 1998 Meeting of the Institute of Human Virology, in Baltimore. The title of this presentation was "Induction of Long Term Survival and Transformation of Primary Human Endothelial Cells by KSHV/HHV-8: Involvement of Angiogenic Pathways". Both of her presentations involved the work of Drs. Ornella Flore and Elizabeth Ryjek, and were done in collaboration with Dr. Rafii in the Department of Medicine, Division of Hematology and Oncology. In May 1998, Dr. Ceserman was a speaker at the Symposium on Herpesvirus-Associated Lymphomas, XXII International Congress of the International Academy of Pathology in Nice, France. Her presentation was entitled: "Kaposi's Sarcoma-Associated Herpesvirus (KSHV/HHV 8) in Malignant Lymphomas". In November 1998, she traveled to Lincoln, Nebraska to present at the Biotechnology Seminar Series of the University of Nebraska. Dr. Ceserman was also an invited speaker at the Keystone Symposium on AIDS Pathogenesis in January 1999, where she presented a lecture entitled: "KSHV/HHV-8 in AIDS-Related

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Pictured above: Professors Rajar, Burke and Priznera at the Department's Holiday Party held at the Metropolitan Club in December, 1998

planation lymphoproliferative disorders. Springer Semin Immunopathol; 20:357-373, 1998.

Reed JB, Nashy RG, Spaulding D, Tani Y, Ceserman E, Knowles DM: Demonstration of Kaposi's sarcoma-associated herpes virus cyclin D homologs in cutaneous Kaposi's sarcoma by colorimetric in situ hybridization using a catalyzed signal amplification system. Blood; 91:3825-3832, 1998.

Flore O, Rafii S, Ely J, O'Leary JD, Ryjek EM, Ceserman E: Transformation of primary human endothelial cells by Kaposi's sarcoma-associated herpesvirus. Nature; 394: 588-592, 1998.

Sharma VK, Ding R, Li B, Bolger RM, Lagman M, Rahafo A, Rahafo P, Koushik J, Sircu TB, Subhanthiram M: Molecular correlates of human renal allograft rejection. Transpl. Proc; 30:2364-2366, 1998.

Ding R, Li B, Charua VK, Bologna RM, Lagman M, Mouradian J, Strom TB, Subhanthiram M: Quantitative competitive polymerase chain reaction: Design and synthesis of mRNA-specific competitor DNA templates and their clinical usage. Transp Proc; 30:2370-2372, 1998.

Krimman S, Bassez N, Kradin P, Shepard JO, Flieder DB, Wright CD, Wein JC, Gims LC: Respiratory syncytial virus-associated infections in adult recipients of solid organ transplantation. J Heart Lung Transplant; 17: 202-210, 1998.

participate in the World Health Organization sponsored classification of endocrine tumors. Finally, he was appointed to the editorial board of the RFP fascicle series (Fourth Series). Congratulations!

Dr. William Muller was busy on the lecture circuit. In New York, he was an invited lecturer at the University of Wisconsin at Madison School of Medicine, Department of Pathology and Laboratory Medicine Research Seminar, with a talk entitled: "The 'Ins' and 'Ours' of Pericardial Migration: Role of P20W-1 and Other Adhesion Molecules". In the same month, Dr. Muller was an invited speaker at Harvard Medical Area (Vascular Biology Seminar, in Boston, MA, with a talk entitled: "Leukocyte-Endothelial Interactions during Inflammation". In June 1998, Dr. Muller was also an invited speaker at ISI School of Medicine Symposium on Neurophil Mediated Modulation of Cellular Proliferation. His talk was entitled:

Faculty publications continued from page 8

pathways to collaboratively suppress pituitary tumorigenesis. Gene Dev; 12: 2839-2911, 1998.

Chadburn A, Chen JM, Hsu DT, Frizzera G, Ceserman E, Garrett TE, Means JG, Zangwi SG, Adornio L, Michler RE, Knowles DM: The morphologic and molecular genetic classification of post-transplantation lymphoproliferative disorders (PT-LPDs) has clinical relevance. Cancer; 82:1978-1987, 1998.

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Ceserman E, Chadburn A, Liu FY, Migliozza A, Dalla-Favera R, Knowles DM: Bcl-6 gene mutations in post-transplantation lymphoproliferative disorders (PT-LPDs) predict response to therapy and clinical outcome. Blood; 92:2594-2592, 1998.

Matoljuly A, Nador RG, Ceserman E, Knowles DM: Monoclonal IgVH gene mutational analysis suggests that primary effusion lymphomas derive from different stages of B cell maturation. Am J Pathol; 153: 1609-1614, 1998.

Knowles DM: The molecular genetics of post-trans-

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radiation dermatitis express factor XIIIa. *Am J Dermatopathol*; 20:370-372, 1998.

Coplan KA, Hayes JG, Falcone DJ, Hajjar DP, Alonso TE: Teaching: a relative value scale in teaching. *Teach Learn Med*; 10:40-43, 1998.

Stodick E, Jäger C, Chen YT, Scanlan M, Gout I, Karbach J, Araz M, Knuth A, Old LJ: A survey of the human immune response of cancer patients to a panel of human tumor antigens. *J Exp Med*; 171:1349-1354, 1998.

Old LJ, Chen YT: New paths in human cancer serology. *J Exp Med*; 187:1163-1177, 1998.

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Chen YT, Gure AO, Tang S, Stockert E, Jäger C, Knuth A, Old LJ: Identification of multiple cancer/testis antigens by allogeneic antibody screening of a melanoma cell line library. *Proc Natl Acad Sci USA*; 95: 6919-6923, 1998.

Tureci Ö, Chen YT, Sahin U, Gure AO, Zwick C, Tang S, Seitz G, Old LJ, Pfreundschuh M: Expression of SXX genes in human tumors. *Int J Cancer*; 77: 19-23, 1998.

Buisson KJ, Chen YT, Old LJ, Stockert E, Iversen K, Coplan KA, Rosai J, Barnhill, Jurguthuth MA: Expression of Melan-A (MART-1) in benign melanocytic nevi and malignant melanoma. *Am J Surg Pathol*; 22:976-982, 1998.

Sahin U, Tureci Ö, Chen YT, Seitz G, Willen C, Old LJ, Pfreundschuh M: Expression of multiple cancer/testis (CT) antigens in breast cancer and melanoma: Basis for polyvalent CT vaccine strategies. *Int J Cancer*; 78:387-389, 1998.

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Berg H, Reibald R, Dias T, Isaacson RG, Reavie I, Pan LX, High frequency of *Ccbl* baloonester protein infection in high-grade aneuploid MALT B-cell lymphomas. *J Pathol*; 185:409-412, 1998.

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Hsu H, Hajjar DP, Falcone DJ: Ligand binding to scavenger receptor induces tyrosine kinase-dependent activation of protein kinase C. *J Biol Chem*; 273:1240-1247, 1998.

Hajjar DP, Schwartz SK: Herpesviruses and Atherosclerosis. Published by Harwood Academic Publishers GmbH, Reading, England, 220 Pgs, 1998.

The Department was well represented at the 88th annual meeting held in San Francisco from March 20-26, 1999.

Both Drs. Glauco Frizzera and Daniel Knowles chaired Hematopathology scientific sessions. Dr. Ribal Coesman was invited to speak by the Burford-Dunn Division of Infectious Disease and her talk was entitled: "Kaposi's Sarcoma-Associated Herpesvirus (KSHV/HV-8): Is it an Oncogenic Virus?" Dr. Mark Edgar presented a course entitled: "Postmortem Diagnosis of Neurodegenerative Disorders". Special congratulations are extended to Dr. Ronald DeLellis, who was elected Vice President of the USCAP Society and President of the Bronchite Pathology Society. He also presented a short course entitled: "Neuroendocrine tumors occurring in Non-Neoplastic Tissues". Congratulations are also extended to our residents Dr. Sarah Ship, who won the esteemed Papapoulos Society of Cytopathology Certificate of Merit for outstanding honorable mention in her abstract entitled: "Melan-A (A103 Antibody) in Fine Needle Aspirations of the adrenal", co-authored by Drs. Syed Hoda and Ronald DeLellis.

In addition, several abstracts were presented by our faculty, residents and technical staff:

- Detection of immunoglobulin kappa light chain rearrangements by polymerase chain reaction: An improved method to detect clonal B cell lymphoproliferative disorders. *J Gorg, S Zhang, G Frizzera, G Inghirami*
- Clonal analysis of cutaneous atypical lymphoid proliferations by T Cell receptor gamma gene rearrangement analysis. *J Gorg, S Zhang, D Ramsay, K Hynes, G Frizzera, G Inghirami*
- Nodal large monocytic B-cell lymphoma: Recognition of T cells with CD45<sup>RO</sup> expression. *Tsokos, M, Tilles, F Bauer, W, Petef, G Inghirami, G Frizzera*
- KSHV/HV-8 vIL-6 expression in lymph nodes correlates with survival and development of Kaposi's Sarcoma in HIV-infected individuals. *A Chudrun, E Bytek, L Ying, I Mulligan, DM Knowles, E Cesarman*
- Telomerase activity by subtype in B Cell Lymphomas. *SN Ely, A Chudrun, E Coesman, DM Knowles*

## Faculty Publications

Rhoton-Vlasak A, Wegner JM, Rutgers JL, Baergen RN, Young RH, Roche PC, Plummer TB, Gleich GJ: Placental site trophoblastic tumor: Human placental trophoblastic tumor associated with human chorionic gonadotropin markers. *Human Pathol*; 29: 280-288, 1998.

Buller RE, Skilling JS, Sood AK, Plaxe S, Baergen RN, Lager: Characterization: My late recurrent ovarian cancer isn't recurrent. *Am J Obstet Gynecol*; 178: 641-649, 1998.

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• Breast Bar: Virus gene expression in postmenopausal breast cancer. *Chen, T, L, Ying, I, Mulligan, E, Bytek, L, Ying, L, Mulligan, E, Coesman, DM Knowles*

• Observer variability in determining "T" of the TNM staging system of "small" breast carcinoma. *Shin, S, Hoda, D, Giri, M, Edgar, B, Flieder, R, Hoda, R, DeLellis R, Hoda*

• Pathological evaluation of sentinel lymph nodes: Experience with 126 cases of breast carcinoma. *A Chudrun, S Hoda, R DeLellis, A Stastel, S Hoda*

• Routine immunocytochemistry on thinprep smears- comparison with cell blocks and evaluation of its limitations. *D Giri, S Shin, R DeLellis R Hoda*

• Cyclooxygenase-2 expression in upregulated pulmonary and mammary tumors. *RA Soslow, A M Baergen, BM Woerner, NK Khan, JM Masferrer, AT Koki*

• P53 mutation analyses support the use of broad histopathologic criteria for the diagnosis of Uterine Serous Carcinoma. *C Isaacson, RJ Korman, LH Ellenson*

• MIB-1 immunostaining is a beneficial addition for the accurate diagnosis of Vulvar Carcinoma. *YC Chen, C Isaacson*

• H-, K- and N-RAS mutations in benign, borderline, and malignant mucinous ovarian tumors. *ML Prasad, K Luettich, V Uhlmann, C Isaacson, JJ O'Leary*

• Mutational analysis of the  $\beta$ -Catenin and APC genes in uterine endometrioid carcinoma. *EC Piros, P Schussner, RU Levine, LH Ellenson*

• Kaposi's Sarcoma-Associated Herpesvirus in lymphoproliferative disease: precise and HIV-Associated lymphadenopathy. *TC Dick, HZ Berg, RG Isaacson, LX Pan*

• Clone specific PCR reveals wide dissemination

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Moretto JC, Soslow RA, Stoller ER: Atypical cells in

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Vaccinomycin Resistance in *Streptococcus epidermidis* and co-authored a poster entitled: "Comparison of Agar Diffusion Methodologies for Antimicrobial Susceptibility Testing of *Pseudomonas aeruginosa* Isolates from Cystic Fibrosis Patients". In July, Dr. Larone also participated as a family member of the Infectious Diseases and Epidemiology Course at the Cornell Seminars in Salzburg, Austria. Her presentation topics included: "New Diagnostic Techniques in Clinical Microbiology and Basis of Fungal Infections and Clinical Microbiology". Presenting Fungal Pathogens. Congratulations are also in order for Dr. Larone as she was appointed to the editorial board of the *Journal of Clinical Microbiology*. Finally, Dr. Larone was recently appointed Chief of Microbiology Laboratory Services here at New York Presbyterian Hospital.

God Luck to Dr. Jon Reed who has recently accepted the position director of the Dermatopathology Section in the Department of Pathology of Baylor College of Medicine in Houston, where he was appointed Associate Professor of Pathology.

Professor David P. Hajjar was also busy lecturing around the world. In May 1998, he lectured at the International Society for Enzymology in Toronto, Canada. His talk was entitled: "Vital Pathogenesis of Atherosclerosis". In the same month he traveled to Florence, Italy, to lecture at the XIITH International Symposium on Drugs Affecting Lipid Metabolism with a talk entitled: "Novel Lipoprotein Receptors in Vascular Cholesterol Trafficking". In October 1998, Dr. Hajjar lectured at the International Symposium on Atherosclerosis in Warsaw, Poland and his lecture was entitled: "Novel Scavenger Receptors in Cholesterol Trafficking". In December, Dr. Hajjar traveled to Amreey, France to lecture on "Vital Activation of the Coagulation Cascade" at the Conference on Infection and Atherosclerosis. Dr. Hajjar also serves on the NNSA Board of Scientific Counselors and is on the editorial board of the *AMA Circulation Research*. Finally, Dr. Hajjar has recently been elected as a fellow of the Royal Society of Medicine. We applaud you!

Dr. Ronald A. DeLellis, Vice-Chairman for Anatomic Pathology, lectured at the California Society of Pathologists in December with a talk entitled: "Multiple Bizarre Neoplasia Syndromes". He also held a slide seminar on Diagnostic Challenges in Thyroid and Parathyroid Tumor Pathology. Dr. DeLellis lectured on "Metastatic Thyroid Carcinoma Syndromes" at the Nassau County Pathology Society and was invited to

Dr. Davise Larone attended the Annual General Meeting of the American Society for Microbiology in May 1998, where she was very active. Dr. Larone convened a workshop entitled: "Identifying Fungi at the End of the 90's"; presented a lecture on "Emerging and Re-emerging Filamentous Pathogens"; presented a poster entitled: "Comparison of Laboratory Methods for Detection of *Low Level*