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TITLE: Cell Growth and Survival in Ovarian Epithelial Cancer
Core A

PRINCIPAL INVESTIGATOR: Santo V. Nicosia, M.D.

CONTRACTING ORGANIZATION: University of South Florida
Tampa, Florida 33620

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Fort Detrick, Maryland 21702-5012

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13. ABSTRACT (Maximum 200 Words) This Core provides the Program Project investigators with oversight and coordination of the scientific, administrative, fiscal, and regulatory aspects of their individual projects. During the initial period of funding, the Core Director has been individual projects. During the initial period of funding, the Core Director has been responsible for organizing regular monthly meetings with Principal Investigators and ad hoc meetings with members of the Internal Steering Committee. The date of the 1 st joint meeting of the Program Project investigators, members of the Internal Steering Committee and of the External Advisory Board has been finalized and will take place on November 13-14, 2-3. The Core has assisted investigators with periodic gathering and maintenance of IRB, Animal Care and Radiation Safety approvals, monthly reports of expenditures, documentation of scientific productivity including publication of 8 manuscripts and new grant submissions (2 new grant proposals), as well as preparation of the current Progress Report. A time-consuming but important responsibility of the Core has also been that of organizing several presentation by invited speakers on a number of cutting-edge, scientific and technological, topics related to ovarian epithelial cancer. Finally, a change in leadership of Project #3 (co-PI to PI) is anticipated beginning Year 02 secondary to a shift of this project's PI to more diagnostically-oriented activities.				
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Introduction

The main function of the Administration Core is that of facilitating the realization of the cumulative vision of the Program Project Director and Principal Investigators. During the initial period of funding, the Core has performed all administrative tasks required for a successful program and has provided the investigators with highly experienced internal and external advice and with a functional structure fostering intra-programmatic scientific interaction. The Core has also fostered a scholarly and scientific-rich environment by organizing several Grand Rounds and lectures and by developing graduate and post-graduate programs in ovarian pathobiology.

Body

Since receipt of first year funding (September 2002), the Administration Core has provided scientific leadership as well as administrative and financial oversight for all components of this Program Project. The Core continues to evaluate progress and stimulate interaction among all investigators and has periodically provided oversight in issues of regulatory nature including IRB, Animal Care, Radiation Safety and Human Subject Protection. Regular monthly meetings of Program Project investigators have been held and dealt with various issues including administration, budget and up-to-date research reports. In addition, weekly research meetings have taken place within individual laboratories. A cadre of outstanding speakers has been invited to deliver cutting-edge lectures on scientific and methodological topics dealing with ovarian cancer or related issues (Table 1). One of such lectures has been the Annual George Wilbanks Lecture in Gynecologic Oncology given by Dr. Thomas Hamilton of the Fox Chase Cancer Center on the very timely topic of a newly developed Mouse Model of Ovarian Epithelial Cancer. While *ad hoc* meetings with members of the Internal Steering Committee have taken place so far, the first joint meeting of the Program Project's Internal Steering Committee and the External Scientific Advisory Board has been finalized for November 13-14, 2003 (see Appendices). A multidisciplinary graduate course on the Pathobiology of Human Cancer has been developed with the interactive participation, among other faculty members, of all Program Project Investigators. Finally, the productivity of the Program Project investigators has been significant with 2 submitted grant proposals on Akt2 Oncogenesis (Cheng-NIH) and Telomerase-Apoptosis in Ovarian Cancer (Kruk-DOD), 8 manuscripts and 11 presentations at national meetings.

Table 1. List of Invited Speakers: 2002-2003

Faculty	Presentations
Alex A. Adjei, M.D., Ph.D. Mayo Clinic and Foundation	"Clinical Studies with Farnesyltransferase Inhibitors" 2002
J. Michael Bishop, M.D. University of California San Francisco	"Modeling the Molecular Pathogenesis of Cancer" 2002
Rebecca Anderson, M.S. University of Florida	"The use of simulated Microgravity to Enhance Cell Adhesion" 2002
Robert E. Scully, M.D. Massachusetts General Hospital Boston, MA	"Carcinoma and Hyperplasia of the Endometrium" 2002
Anna Plaas, Ph.D. USF College of Medicine Department of Anatomy	"The Extracellular Matrix – A Continuum-from Ground substance to Molecular Modules for Cell Signalling" 2002

Ming Zhang, Ph.D. Baylor College of Medicine Houston, TX	"The role of maspin in tumor progression and metastasis" 2002
Andrew Godwin, M.D. Fox Chase Cancer Center Philadelphia, PA	"Identification of Ovarian Cancer-Associated Genes using a HOSE Cell Transformation Model" 2002
Michelle Y. Alfonso-De Matte USF College of Medicine Department of Pathology	"Signal Transduction Regulation of Telomerase in Human Ovarian Surface Epithelial Cells" 2002
Heehyoung Lee, Ph.D. USF College of Medicine Department of Pathology	"Regulation of Human Estrogen Receptor-Alpha by Phosphorylation" 2002
Thomas Franke, M.D., Ph.D. Columbia University New York, NY	"Therapeutic targets downstream of AKT kinases" 2002
Dihua Yu, M.D., Ph.D. University of Texas M.D. Anderson Cancer Center, Houston, TX	"G2/M Deregulation by Erb B2 and Breast Cancer Chemoresistance" 2002
Chunying Du, Ph.D. Stowers Institute for Medical Research Kansas City, Missouri	To die or not to die: Biochemical studies of Apoptosis in Mammalian System" 2002
Johnathan M. Lancaster, M.D. Duke University Medical Center Durham, NC	"Molecular Genetic Analysis of Epithelial Ovarian Cancer" 2002
Karin D. Rodland, Ph.D. Oregon Health Sciences University Portland, Oregon	"Signal Transduction in Ovarian Cancer" 2002
Terry G. Unterman, M.D. University of Illinois College of Medicine Chicago, Illinois	"FOXO Forkhead Transcription Factors in Insulin and Growth Factor Action" 2002
Christopher C. Taylor, Ph.D. Georgetown University School of Medicine, Washington, DC	"Src Tyrosine Kinase Signaling, Life and Death Signals in a Mouse Model of Ovarian Cancer" 2003
Kenneth J. Bloom, M.D. US Labs Irvine, CA	"Targeting the Signal Transduction Pathways" 2003
Scott L. Friedman, M.D. Mt. Sinai School of Medicine New York, NY	"KLF6, a Novel Tumor Suppressor Gene in Human Cancer" 2003
Xiang-Xi Michael Xu, Ph.D. Fox Chase Cancer Center Philadelphia, PA	"Ovarian Surface Epithelial Cell Positioning Organization and Tumorigenicity" 2003
Zengqiang Yuan, M.D. USF College of Medicine Department of Pathology	"PI3K/AKT Signaling Pathway in Human Ovarian Cancer" 2003

Meenhard Herlyn, DVM Wistar Institute Philadelphia, PA	"Basic Biology of Melanoma" 2003
Daniel Celestino Fernandez, Ph.D. USF College of Medicine Department of Pathology	"Fourier-Transform Infrared Spectroscopic Imaging of Prostate Histopathology" 2003
Bing Su, Ph.D. UTMD Anderson Cancer Center Houston, TX	"Stories of Two Ser/Thr Protein Kinases: MEKK2 and MEKK3" 2003
Thomas C. Hamilton, Ph.D. Fox Chase Cancer Center Houston, TX	"Efforts to understand ovarian oncogenesis" AND "Strategies toward creating transgenic ovarian cancer models" 2003

Other Administration Core Activities

The Administration Core Director has negotiated with the University of South Florida College of Medicine and the Moffitt Cancer Center the future joint recruitment of a basic scientist with experience in developmental molecular biology, including morphogenesis, as it relates to ovarian epithelial oncogenesis. Such a recruitment will expand and complement the existing expertise (Akt, telomerase/survivin, IGF1-R/ascorbyl stearate, vitamin D/RXR, angiogenesis) within our Ovarian Epithelial Cancer Pathobiology Program

Dr. James Fiorica, Leader of the Gynecologic Oncology Program at the Moffitt Cancer Center Has recently recruited Dr. John Mark Lancaster from Duke University. Dr. Lancaster is a young clinical investigator with expertise in ovarian cancer genetics and genomics. He has previously collaborated with Dr. Andrew Berchuck, a well-known investigator of ovarian cancer biology. Dr. Lancaster brings translational expertise to the Gynecologic Oncology and Ovarian Epithelial Cancer Pathobiology Programs (see Appendices). Collaboration with Dr. Lancaster has already begun in the area of gene expression in early ovarian epithelial cancer. Significantly, Dr. Lancaster brings to the Program a database of over 130 well-characterized ovarian cancer specimens and 2 informative microarray gene lists.

Other Administrative Issues

The Program Project and Administrative Core Director, Dr. Nicosia, has recently notified the DOD Contracting/Grants Officer that Dr. Domenico Coppola, Principal Investigator in Project #3 of the above funded Program Project has accepted a position of Medical Director in a diagnostic pathology laboratory in Tampa effective August 1, 2003 (see Appendices). He will continue to be a member of the Ovarian Epithelial Cancer Pathobiology Program in the Department of Pathology at the University of South Florida College of Medicine at the rank of Associate Professor, Affiliate Faculty. He will continue to have access to research laboratory space (Program project Director, Dr. Nicosia, and Project #1 P.I., Dr. Cheng), technical personnel and core facilities as well participate in periodical laboratory research meetings. Therefore, his total involvement in the above project will be by necessity diminished.

After serious consideration, the Core Administration believes that the best course of action is to have Dr. Jin Cheng, already a Co-PI in this project, and Dr. Santo Nicosia to become PI and co-PI, respectively, in Project # 3 of DAMD17-02-1-0670. This project has a heavy emphasis on Akt-related mechanisms of action and Dr. Cheng is a recognized expert in this area. Likewise,

the project has significant biological and animal components and Dr. Nicosia has a long and documented track record of expertise in both areas. Drs. Cheng and Nicosia have a history of successful collaboration and will see that all Tasks of project #3 will be successfully carried out, with the assistance of the listed technical personnel and the scientific advice of Dr. Coppola who will remain involved in the project as a co-PI without salary.

Key Research Accomplishments

1. Finalization of 1st Annual Retreat of Internal Steering Committee External Scientific Advisory Board (11/13-14/03, 2003)
2. Seminar series with focus on ovarian cancer and closely related topics (20 speakers)
3. Oversight of scientific productivity with 8 manuscripts, 11 abstracts and 2 submitted grant proposals
4. Development of graduate course in Pathobiology of Human Cancer with emphasis on reproductive neoplasms, including ovarian epithelial cancer
5. Garnered support for recruitment of new faculty in the Ovarian Epithelial Cancer Pathobiology Program
6. Sustained administrative and fiscal management

Reportable Outcomes

Manuscripts (see Appendices)

1. Nicosia SV, Bai W, Cheng JQ, Coppola D, Kruk PA. Oncogenic Pathways Implicated in Ovarian Epithelial Cancer. *Hematology/Oncology Clinics of North America* (In Press 2003)
 2. Nicosia SV, Wilbanks GD, Saunders B, mayer J, Cardosi RC, Kruk PA, Cheng JQ, Bai W, Coppola D, Fiorica J. Cytology of Human Ovarian Surface Epithelial Brushings. *Cancer Cytopathology* (In Press 2003)
 3. Yuan Z, Feldman RI, Sussman GE, Coppola D, Nicosia SV, Cheng JQ. AKT2 Inhibition of Cisplatin-induced JNK/p38 and Bax Activation by Phosphorylation of ASK1: Implication of Akt2 in chemoresistance. *J Biol Chem.* 278: 23432-23440, 2003.
 4. Dan HC, Coppola D, Jinag K, Liu A, Hamilton AD, Nicosia SV, Sebti SM, Cheng JQ. Inhibition of Phosphatidylinositol-3-OH Kinase/Akt and Survivin Pathways by Geranylgeranyltransferase I Inhibitor-298 Induces Apoptosis in Human Ovarian Cancer Cells. *Oncogene* (in press).
 5. Gritsko TM, Coppola D, Paciga JE, Yang L, Sun M, Shelley SA, Fiorica JV, Nicosia SV, Cheng JQ. Activation and Overexpression of Centrosome Kinase BTAK/Aurora-A in Human Ovarian Cancer. *Clin Cancer Res.* 9:1420-1426, 2003.
 6. Cheng JQ, Jiang X, Fraser M, Li M, Dan HC, Sun M, Tsang BK. Role of X-linked Inhibitor of Apoptosis Protein in chemoresistance in Ovarian Cancer: Possible involvement of the PI3-Kinase/Akt Pathway. *Drug Resist Updat* 5:131-146, 2002.
-
7. Cardosi RC, Livingston S, Alfonso-DeMatte MY, Johnson NC, Nicosia SV, Kruk PA. Survivin expression in normal and malignant ovarian surface epithelium. (manuscript in preparation)
 8. Naidu KA, Sun M, Dan HC, Nicosia SV, Cheng JQ, and Coppola D. Ascorbyl Stearate Inhibits Proliferation and Induces Apoptosis of Human Ovarian Carcinoma Cells by Targeting Pi3K/AKT Pathway (manuscript in preparation)

Abstracts

1. Yuan Z, Feldman RI, Sussman GE, Coppola D, Nicosia SV, Cheng JQ. AKT2 Inhibition of Cisplatin-induced JNK/p38 and Bax Activation by Phosphorylation of ASK1: Implication of AKT2 in Chemoresistance. 94th American Association for Cancer Research Annual Meeting, 2003.
2. Gritsko TM, Coppola D, Paciga JE, Yang L, Sun M, Shelley SA, Fiorica JV, Nicosia SV, Cheng JQ. Alterations of Aurora-A oncogene in human ovarian cancer. 94th American Association for Cancer Research Annual Meeting, 2003.
3. Yuan Z, Kaneko S, Coppola D, Nicosia SV, Cheng JQ. Akt-interacting protein, AP β , mediates PI3K/Akt survival signal through activation of PAK1 and NF κ B pathways. 94th American Association for Cancer Research Annual Meeting, 2003.
4. Kaneko S, Yang L, Paciga J, Yu H, Nicosia SV, Jove R, Cheng JQ. Transcriptional Upregulation of AKT2 by Stat3 and Src. 19th Annual Meeting on Oncogene, 2003.
5. Dan DC, Sun M, Feldman RI, Nicosia SV, Wang H-G, Tsang B, Cheng, JQ. Akt Regulates X-linked inhibitor of apoptosis, XIAP: A Mechanism to Antagonize Cisplatin-Induced Apoptosis in Human Ovarian Epithelial Cancer Cells. 19th Annual Meeting on Oncogene, 2003.
6. Sun M, Yuan Z, Yang L, Feldman RI, Yeatman TJ, Jove R, Nicosia SV, Cheng JQ. AKT2 Inducible Gene hHb1- α N Feedback Activates PI3K/Akt Pathway and Promotes Cell Proliferation and Cell Survival. 19th Annual Meeting on Oncogene, 2003.
7. Yang L, Sun M, Yang H, Dan HC, Nicosia SV, Cheng JQ. Akt/PKB Inhibits HtrA2/Omi-stimulated Apoptosis through Direct Disruption of its Serine Protease Activity. 19th Annual Meeting on Oncogene, 2003.
8. Yuan Z, Feldman RI, Sussman GE, Coppola D, Nicosia SV, Cheng JQ. ASK1 is a target to overcome Akt induced cisplatin resistance. 19th Annual Meeting on Oncogene, 2003.
9. Cheng JQ. Akt and prenylation inhibitors as potential reagents to overcome p53-associated chemoresistance in human ovarian cancer. The Gynecologic Oncology Group Meeting, 2003.
10. Evans MS, Kruk PA. Regulation of surviving in ovarian epithelial cells via the mitogen-activated protein kinase signaling cascade. University of South Florida Health Sciences Research Day Symposium 81, 2003.
11. Coppola D, Sun J, Tang J, Naidu AK, Naidu AK, Nicosia SV, Sebti S. Ascorbyl stearate inhibits proliferation and induces apoptosis of human ovarian carcinoma cells. Poster presentation at the 92nd Annual Meeting of the American Association for Cancer Research, New Orleans, LA; March 24-28, 2001.

Conclusions

Since receipt of initial funding, the Administration Core has executed the goals stated in the original Program Project proposal by providing administrative and fiscal oversight and ensuring compliance of investigators and staff in regulatory issues. Success has been achieved in scientific productivity, including accepted manuscripts and new grant submission, and in scholarly activities related to ovarian cancer pathobiology, including a series of outstanding seminars and a newly developed graduate course. Finally, negotiations with local institutions have resulted in the approval of recruiting plans for a new ovarian cancer-oriented basic scientist and a faculty with expertise in translational ovarian cancer research has recently joined the institution. Such administrative efforts are essential to the continued success of our Ovarian Epithelial Cancer Pathobiology Program whose investigators are collectively striving to unravel the mechanisms of ovarian epithelial oncogenesis.

Appendices

1. Announcement and Schedule of 1st Internal Steering Committee and External Scientific Advisory Board Meeting
2. Letter to Patricia Evans, DOD Contracting/Grants Officer
3. *Curricula vitarum*



Your presence is requested at the

*Internal Steering Committee and
External Scientific Advisory Board Meeting*

to be held

November 13 & 14, 2003

**The Department of Defense
Program Project entitled**

**“Cell Growth and Survival in
Ovarian Epithelial Cancer”**

Sponsored by the Department of Pathology
and Laboratory Medicine
at the University of South Florida College of Medicine
Santo V. Nicosia, M.D. Professor and Chairman,
DOD Program Project Director

DOD Program Project
Internal Steering Committee and
External Scientific Advisory Board Meeting

Thursday, November 13, 2003

6:30 pm Evening Dinner at Berns Steakhouse

Friday, November 14, 2003

8:00am **BREAKFAST**

8:30am Welcome from Robert M. Daugherty, M.D. Dean, College of Medicine

8:40am Introduction of Overall Program – Santo V. Nicosia, M.D.
➤ Presentation (10 minutes)
➤ Discussion (10 minutes)

9:00am AKT2 Oncogene and its associated protein, APBP, in human ovarian cancer -
Jin Q. Cheng, M.D., Ph.D.
➤ Presentation (15 minutes)
➤ Discussion (15 minutes)

9:30am The Anti-Apoptotic Role of Telomerase in Ovarian Cancer – Patricia Kruk, Ph.D.
➤ Presentation (15 minutes)
➤ Discussion (15 minutes)

10:00am **BREAK**

10:15am Ascorbyl stearate inhibits proliferation and induces apoptosis of human ovarian
carcinoma cells – Domenico Coppola, M.D.
➤ Presentation (15 minutes)
➤ Discussion (15 minutes)

10:45am Inhibition of Ovarian Epithelial Cancer Cell Growth by Vitamin D
Wenlong Bai, Ph.D.
➤ Presentation (15 minutes)
➤ Discussion (15 minutes)

11:15am Core A: Administration & Core B: Pathology – Santo V. Nicosia, M.D.
➤ Presentation (15 minutes)
➤ Discussion (15 minutes)

11:45pm **LUNCH**

12:45pm Visit USF Laboratories (Drs. Bai, Cheng, Kruk, Nicosia & Pathology Core)

1:30pm Visit Moffitt Laboratories

2:30pm Executive Session



August 5, 2003

Patricia A. Evans
Contracting/Grants Officer
Department of the Army
US Army Medical Research Acquisition Activity
820 Chandler Street
Fort Detrick, Maryland 21702-5014

Subject: DAMD17-02-1-0670

Dear Commander:

This is to notify that Dr. Domenico Coppola, Principal Investigator in Project #3 of the above funded Program Project has accepted a position of Medical Director in a diagnostic pathology laboratory in Tampa effective August 1, 2003. He will continue to be a member of the Ovarian Epithelial Cancer Pathobiology Program in the Department of Pathology at the University of South Florida College of Medicine at the rank of Associate Professor, Affiliate Faculty. Although he will continue to have access to research laboratory space (mine and Project #1 P.I., Dr. Cheng), technical personnel and core facilities as well participate in periodical laboratory research meetings, his total involvement in the above project will diminish.

After serious consideration, I believe that the best course of action is to have Dr. Jin Cheng, already a co-PI in this project, and myself to become PI and co-PI, respectively, in Project # 3 of DAMD17-02-1-0670. This project has a heavy emphasis on Akt-related mechanisms of action and Dr. Cheng is a recognized expert in this area. Likewise, the project has significant biological and animal components and I have a long and credible track record of expertise in both areas. Dr. Cheng and I will see that all project #3 Tasks will be carried out with the assistance of the listed technical personnel and the scientific advice of Dr. Coppola who will remain involved in the project as a co-PI without salary.

I trust that you will approve the requested reassignment of personnel and funds. Such an intervention will ensure unabated continuation of the proposed work. The present request is being incorporated into our 1st annual report of DAMD17-02-1-0670 due August 7, 2003.

Department of Pathology

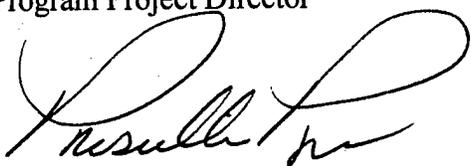
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(813) 974-3133 • FAX (813) 974-5536

I look forward to hearing from you and I remain,

Sincerely yours



Santo V. Nicosia, M.D.
Professor and Chairman
Program Project Director



Priscilla Pope
Associate Vice President for Research
University of South Florida

SVN

cc.: Judy Pawlus, Technical Editor
Department of the Army

August 1, 2003

CURRICULUM VITAE

SANTO V. NICOSIA, M. D.

Birth Date: December 12, 1943

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Citizenship: United States

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813/972-4673 exts. 1954/2942

Marital Status: Married (1969)
Wife: Louise Mary Pineider
Children: Lydia Mary (1970)
Lara Ann (1974)
Nicole Claudia (1976)

Military Status: S.S. No. 11.12.43.89, Class 1-A

Languages: English, Italian, French, and Spanish (understanding and reading)

EDUCATION:

1969 – 1971 M.S. (Pathology), University of Illinois at the Medical Center,
Chicago, Illinois (Dr. H. R. Catchpole, Research Advisor)

1961 – 1967 M.D. (Medicine), Catholic University of the Sacred Heart
School of Medicine and Surgery, Rome, Italy

1956 – 1961 M.C. (Classical Studies and Sciences), Leonardo da Vinci High School, Catania, Italy

POSTGRADUATE TRAINING: (RESIDENCIES AND INTERNSHIPS)

April 1969 – June 1972 Residency in Anatomic Pathology (Department of Pathology, Dr. Conrad L. Pirani, Chairman. Michael Reese Hospital and Medical Center, Chicago, Illinois)

January – December 1968 Residency (1 year Gynecology) in Obstetrics and Gynecology. (Department of Obstetrics and Gynecology, Dr. Adriano Bompiani, Chairman. Catholic University Hospital, Rome, Italy)

July – December 1967 Rotating Internship (Catholic University Hospital, Rome, Italy)

POSTGRADUATE TRAINING: (OTHER)

February 2002 Human Participants Protection Education for Research Teams online course, sponsored by the National Institute of Health, February 19, 2002.

February 2002 Certificate of Environmental Compliance sponsored by the Environmental Compliance Department, USF College of Medicine, February 20, 2002

January 2002 GRIPE 2002 Winter Meeting, January 16-19, 2002, USF College of Medicine, Tampa, FL

January 2002 I. Pathologists Assistants: Present Panacea – Future Disaster. II. Molecular Diagnostics: AP's Fastest Developing Field. III. Teaching and Training. IV. Costs, CAP and Effort. Southeastern Association of Pathology Chairs Annual Meeting, Grand Cayman, January 27-30, 2002.

July 2001 Pathology Role in Educating the Healer. I. The Pathology Residency Moving from a 5 year training to a Competency Model. II. How we teach and why. III. How do you do it; A) Session not just for new chairs. IV. Rules and Regulations Impacting our Departments. Association of Pathology Chairs APC/PRODS/PDAS/GRIPE, July 25-28, 2001 Park City, Utah.

January 2001 GRIPE 2001 Winter Meeting, January 10-13, 2001, St. George University, Grenada, West Indies.

July 2000 I. Ivory Tower, Inc. – Getting Started; II. Changing Partners and Creating Partners/Competitors – Mergers and Acquisitions and Helpful/Harmful Spin Offs; III. The 5th Year of Pathology Training - What are the Options?; IV. Keynote: The IOM Reports and its Implications for Pathology; V. Incentivizing Clinical Faculty and Staying Legal; VI. UAREP Workshop – Emerging Opportunities in Academic Pathology: Money Businesses vs. Monkey Businesses?, Association of Pathology Chairs, APC/PRODS/PDAS Meeting 2000, July 26-29, 2000, Boulder, Co.

- July 1999 I. Funding for Residency Training; II. Informatics Workshop; II. Funding and Pathways for Resident Research; III. Emerging Technologies; IV. Intellectual Property Workshop; V. Factors Shaping the Future of Pathology "Millennium Musing on Training the Future Pathologist", Association of Pathology Chairs, APC/PRODS, July 20-24, 1999, Boulder, CO.
- June 1999 Computers in Healthcare Education Symposium and Slice of Life Workshop on Interactive Multimedia, GRIPE 1999, June 22-26, 1999, Philadelphia, PA.
- February 1999 First International Symposium on Ovarian Cancer, M. D. Anderson Cancer Center at the University of Texas, February 3-5, 1999, Houston, TX.
- January 1999 I. In situ PCR; II. Ultrapositive ISH; III. Spectral Imaging SKY/SPY; IV. Cases Capture Microdirection; V. FISH; VI. ISH CD ROM: The 7th International Conference and Workshop on Molecular Morphology, January 10-15, 1999, Santa Fe, NM.
- September 1998 I. Current Payment and Practice Expense Issues; II. Preparation of Residents for Academic Careers in Anatomic, Clinical and Subspecialty Pathology; III. Coding and Billing in an Academic Medical Center, Legal Parameters of Coding and Reimbursement: Southeastern Association of Pathology Chairs and Managers, September 23-26, 1998, Nashville, TN.
- July 1998 I. Pathology Curriculum and the Client's Expectations; II. Use of Computers in Undergraduate Pathology Education; III. Opportunities for Funding the Research Enterprise in Pathology; IV. Graduate and Undergraduate Pathology Education: PRODS, GRIPE and NBME Perspectives Association of Pathology Chairs/PRODS/GRIPE, July 22-25, 1998, Boulder, CO.
- October 1997 I. Faculty Incentive Plans; II. Working with Commercial Laboratories; III. Absorptions and Mergers at the Department Level: Southeast Association of Pathology Chairs, 1997 Annual Meeting, October 16-18, 1997, Perdido Beach, AL.
- July 1997 Association of Pathology Chairs/PRODS, July 23-26, 1997, Lake Tahoe, CA.
- July 1996 I. Mergers and Alliances in Academic Pathology; II. Approaching the Era of Molecular Diagnosis: DNA vs. Glass; III. Training in Pathology; IV. Telepathology: New Opportunities for Pathology Service Providers: Association of Pathology Chairs/PRODS, July 24-27, 1996, Vail, CO.
- July 1996 Six Hats Workshop. Association of Pathology Chairs/PRODS, July 23, 1996, Vail, CO.
- February 1996 Academic Chairpersons: Approaches to Accountability, 13th Annual Conference Program, Kansas State University Center on Faculty Development and Evaluation. National Issues in Higher Education, Orlando, FL.

- September 1992 Total Quality Management. Southeastern Association of Pathology Chairmen, Belmont Hotel, Bermuda.
- April 1992 Total Quality Management in the Hospital. The Center for Executive Education at Babson College, Boston, MA.
- March 1990 Recent Advances in Molecular Pathology. Fifth Annual Workshop, Boston, MA (Course Directors: H.L. Wolfe and H. Hofler).
- March 1989 Finance and Accounting for the Non-Financial Manager. Aresty Institute of Executive Education. The Wharton School of the University of Pennsylvania, Philadelphia, PA.
- February 1987 Aspiration Biopsy. The European and American Experience. Annenberg Center for Health Sciences at Eisenhower Medical Center, Rancho Mirage, CA.
- February 1987 First International Conference and Workshop on Artificial Intelligence Systems as Diagnostic Consultants for the Cytologic and Histologic Diagnosis of Cancer (Sponsored by the International Academy of Cytology, the American Society of Cytology and the University of Chicago, University City, CA).
- April 1985 Fine Needle Aspiration Cytology Workshop (Dr. William L. Betsill, Jr., Director)
- July 1984 Tutorial on Clinical Cytology (The University of Chicago, Chicago, IL).
- May – June 1984 Visiting Associate Professor in Aspiration Biopsy Cytology (with Dr. William J. Frable, Department of Pathology, Medical College of Virginia, Richmond, VA).
- February – March 1984 Training in Aspiration Biopsy Cytology (with Dr. Tilde E. Kline, Department of Pathology, The Lankenau Hospital, Philadelphia, PA).
- June 1982 Workshop on Hybridomas and Monoclonal Antibodies (Gencom Assoc., Bethesda, MD).
- March – April 1982 Twenty-third Institute in Clinical Cytopathology for Pathologists (The Johns Hopkins University School of Medicine and the Johns Hopkins Hospital, Baltimore, MD).
- July 1981 Workshop on the Use of Immunoperoxidase in Surgical Pathology (Immulok, New York, NY).
- March 1981 Immunopathological Techniques in Diagnostic Pathology (One-day course. International Academy of Pathology, 70th Annual Meeting, Chicago, IL).

- October 1977 Course and Workshop on Clonal Culture (W. Alton Jones Cell Science Center, Lake Placid, NY).
- March 1977 Workshop on Cell Separation (W. Alton Jones Cell Science Center, Lake Placid, NY).
- May 1975 Course on Cell Separation (W. Alton Jones Cell Science Center, Lake Placid, NY).
- July 1973 Course and Workshop on Animal Organ Culture (W. Alton Jones Cell Science Center, Lake Placid, NY).
- November 1972 Course on Advanced Electron Microscopy (Armed Forces Institute of Pathology, Biophysical Branch, Washington, DC).

LICENSURES:

- December 1980 FLEX (Licenses: No. ME-0051432, Florida; No. MD-026379-E, Pennsylvania, inactive; No. 036-061713, Illinois, inactive)
- February 1969 ECFMG (Certificate No. 105-015-2)

SPECIALTY CERTIFICATIONS:

- August 1990 Cytopathology
December 1978 Anatomic Pathology

FELLOWSHIP APPOINTMENTS:

- July 1972 – June 1973 USPHS Trainee in Reproductive Biology (Department of Obstetrics and Gynecology, Dr. Luigi Mastroianni, Jr., Chairman. University of Pennsylvania School of Medicine, Philadelphia, PA)

FACULTY APPOINTMENTS:

- June 2000 – Present Professor, Interdisciplinary Oncology Program, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
- July 1993 – Present Senior Member-In Residence, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
- June 1993 – Present Professor, Department of Obstetrics and Gynecology, University of South Florida College of Medicine, Tampa, FL
- August 1984 Professor, Department of Pathology, University of South Florida College of Medicine, Tampa, FL

July 1979 – July 1984	Associate Professor, Department of Obstetrics and Gynecology and Department of Pathology, University of Pennsylvania School of Medicine, Philadelphia, PA
Summers 1976, 1978, 1979	Principal Investigator, Marine Biological Laboratory, Woods Hole, MA
July 1973 – June 1979	Assistant Professor, Department of Obstetrics and Gynecology and Department of Pathology, University of Pennsylvania School of Medicine, Philadelphia, PA

ADMINISTRATIVE APPOINTMENTS:

2002 – present	Director, Histopathology Core Laboratory, NCI-Comprehensive H. Lee Moffitt Cancer Center and University of South Florida College of Medicine, Tampa, FL
2000 – 2001	Pathology Program Leader, Interdisciplinary Oncology Program, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida College of Medicine, Tampa, FL
1999 – 2002	Secretary-Treasurer, American Society of Cytopathology
1997 – 2002	Director, Pathology Core Facilities, NCI-Comprehensive H. Lee Moffitt Cancer Center and University of South Florida College of Medicine, Tampa, FL
1996 – Present	Leader, Ovarian Epithelial Cancer Pathobiology Program, Department of Pathology, University of South Florida College of Medicine
September 1995 – Present	Chairman, Department of Pathology and Laboratory Medicine, University of South Florida College of Medicine, Tampa, FL
September 1995 – Present	Director, Diagnostic Histopathology Laboratory, Department of Pathology, University of South Florida College of Medicine, Tampa, FL
June 1989 – February 2001	Chief, Pathology Services, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
January 1995 - August 1995	Acting Chairman, Department of Pathology and Laboratory Medicine, University of South Florida College of Medicine, Tampa, FL
September 1993 - November 1993	Interim Chairman, Department of Pathology and Laboratory Medicine, University of South Florida College of Medicine, Tampa, FL
January 1991 -	Vice Chairman, Department of Pathology and Laboratory
January 1995	Medicine, University of South Florida College of Medicine, Tampa, FL

- 1986 – 1997 Director, Division of Cytopathology, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
- 1988 – Present Consultant, Department of Pathology, J. A. Haley VA Hospital, Tampa, FL
- 1984 – 1988 Chief, Section of Cytopathology, Department of Pathology, J. A. Haley VA Hospital, Tampa, FL
- 1973 – 1984 Director, Electron Microscopy Unit, Division of Reproductive Biology, Department of Obstetrics and Gynecology, University of Pennsylvania School of Medicine, Philadelphia, PA

COMMITTEE SERVICES:

As Chairman:

- 1998 – 2000 VA Committee, Association of Pathology Chairs
- 1998 – 1999 Membership Committee, American Society of Cytopathology
- 1993 – 1995 Research on Cytology, Papanicolaou Society of Cytopathology
- 1993 Ad Hoc Administrative Liaison Committee, Department of Pathology, University of South Florida College of Medicine, Tampa, FL
- 1990 – 1993 Constitution and By-Laws Committee, American Society of Cytology
- 1990 – 1995 Scientific Review Committee, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
- 1989 – 1996 Didactic Tumor Conferences Committee, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
- 1987 – Present Fellowship Committee, Department of Pathology, University of South Florida College of Medicine, Tampa, FL
- 1986 – Present Faculty Search Committee, Department of Pathology, University of South Florida College of Medicine, Tampa, FL

As Coordinator:

- 2002-2003 University of South Florida College of Medicine Annual Faculty and Staff Campaign
- 1994 – 1997 Project Team Leader. Operating Policies for Students and Residents, Clinical Practice Council USF Physicians, University of South Florida College of Medicine, Tampa, FL

1992 – 1999	Tissue Procurement Service Committee (with Dr. W. J. Pledger). H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1992 – 1993	Basic Science Research Program. H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
<u>As Member:</u>	
2003 – Present	ASC Member Local Area Committee, Orlando, Florida
2001 - present	University of South Florida College of Medicine Development Committee
2001 – present	Executive Board Advisor and Lead Infrastructure Goals, American Faculty, Cytopathology Action Plan 2002: Leadership in Cytopathology.
2000 – present	University of South Florida College of Medicine Clinical Operations Group
2000 – present	University of South Florida Basic Science Chairs Committee
1999 - present	Ex-officio, Nominating Committee, Budget and Finance Committee, American Society of Cytopathology.
1999- present	Managed Care Committee, University of South Florida Physicians Group
1999-2000	Strategic Planning Committee, American Society of Cytopathology
1999	Tower Project Leadership, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL
1998	Search Committee, Chief of Pathology and Laboratory Medicine, James A. Haley VA Hospital, Tampa, FL
1998	Proctor, Cytopathology Certification, American Board of Pathology, Tampa, FL
1997 – Present	Finance Committee, University of South Florida Physicians Group
1997 – Present	Chair Representative, USFPG Finance Committee, University of South Florida College of Medicine, Tampa, FL
1997 – Present	UAREP Research Committee, American Association of Pathology Chairs
1997 – 2001	Scientific Leadership Council, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL
1995 – Present	Physician Group Operations, University of South Florida College of Medicine, Tampa, FL

1994 – 1995	Clinical Practice Council, University of South Florida College of Medicine, Tampa, FL
1993 – Present	Executive Committee, American Society of Cytology
1993 – 1994	UMSA Group Practice Board of Directors, University of South
1995 – Present	Florida College of Medicine, Tampa, FL
1993 – Present	Advisory Committee, Lifetime Cancer Screening, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1993 – Present	Trustee, James N. Patterson Research and Education Fund of the Southwest Florida Blood Bank, Tampa, FL
September 1993 - November 1993 1995 – Present	Executive Council, University of South Florida College of Medicine, Tampa, FL
September 1993 - November 1993 1995 – Present	Board of Directors, University of South Florida College of Medicine, Service Support Corporation, Tampa, FL
September 1993 - November 1993 1995 – Present	Dean's Committee, University of South Florida College of Medicine, Tampa, FL
1993 – 2001	Clinical Affairs Council, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1993 – Present	Search Committees, Medical Oncology/Radiology/Genitourinary Surgical Oncology, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1993 – Present	Pathology Alumni Foundation, University of South Florida College of Medicine, Tampa, FL
1993 – 1994	Search Committee, Harold H. Davis Chair in Basic Research, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1992 – 1993	Clinical Practice Development Committee, University Medical Services Association (UMSA), University of South Florida College of Medicine, Tampa, FL
1991 – 1993	Cancer Center Steering Committee, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL

1991 – 1994	Committee on Rank and Tenure, University of South Florida College of Medicine, Tampa, FL
1991 – Present	Gynecology Oncology Group, Pathology Review, University of South Florida College of Medicine, Tampa, FL
1991 – 1995	Faculty Council, University of South Florida College of Medicine, Tampa, FL
1991 – 1992	Medical Clinic Laboratory Committee, University of South Florida College of Medicine, Tampa, FL
1990 – 1991	Outpatient Services Planning Committee, University of South Florida College of Medicine, Tampa, FL
1990 – 1993	Space Utilization Committee, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1990 – 1992	Strategic Planning Committee, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1990 – 1992	Physician Advisory Committee, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1990 – Present	Residency Review Committee, University of South Florida College of Medicine, Tampa, FL
1990 – 1991	Ambulatory Care Charges Task Force, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1990 – 1991	Nominating Executive Committee, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1989 – 1992	Cancer Board, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1989 – 1991	At Large, Executive Committee, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1989 – 1990	Scientific Review Committee, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1988 – 1991	Infectious Disease Control Committee, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1989 – 1990	Pharmacy and Therapeutics Committee, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1988 – 1993	Ethics Committee, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL

1987 – Present	Admission Committee Interviewing Panel, University of South Florida College of Medicine, Tampa, FL
1986 – 1995	Promotion and Rank Committee, Department of Pathology, University of South Florida, Tampa, FL
1986 – Present	Executive Committee, Department of Pathology, University of South Florida College of Medicine, Tampa, FL
1985 – Present	Graduate Faculty, University of South Florida College of Medicine, Tampa, FL
1989 – 1992	Faculty Senate, University of South Florida College of Medicine, Tampa, FL
1989 – 1992	Faculty Senate, University of South Florida, Tampa, FL
1986 – 1990	Research and Development Committee, James A. Haley VA Hospital, Tampa, FL
1987 – 1989	Special Care Committee, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, Tampa, FL
1977 – 1981	Admission Committee Interviewing Panel, University of Pennsylvania School of Medicine, Philadelphia, PA

TEACHING AND TRAINING EXPERIENCE:

University of South Florida College of Medicine:

2002 – 2003	Member, Committee for Doctor of Pathology Degree in Medical Sciences (Pathology). Ms. Feng Jiang
2002 – 2003	Member, Committee for Doctor of Pathology Degree in Medical Sciences (Pathology). Mr. Zengqiang (Wilson) Yuan
2001 – 2002	Member, Committee for Doctor of Pathology Degree in Medical Sciences (Pathology). Mrs. Heehyoung Lee
2000 – Present	Participating Faculty. Radioguided Surgery Course. H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL.
1993 – Present	Participating Faculty. Thoracic Oncology Program, Neurooncology Program and Gynecologic Oncology Program, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL
1992 – 1996	Participating Faculty. Clinico-Pathological Conferences on Gynecologic Endocrinology, Tampa General Hospital, Tampa, FL
1992 – 1996	Participating Faculty. Clinico-Pathological Conferences on Endometrial Pathology, Tampa General Hospital, Tampa, FL

- 1991 – Present Supporting Faculty, Fellowship in Reproductive Endocrinology
- 1989 – Present Participating Faculty, Moffitt Cancer Center's Oncology Forum for Physicians
- 1987 – Present Participating Faculty, Clinico-Pathological Conferences on Breast Cancer Management
- 1987 – Present Supporting Faculty, Fellowship in Gynecologic Oncology
- 1986 – 1993 Participating Faculty, Clinico-Pathological Conferences on Gynecologic Oncology
- 1985 – Present Group Leader, Seminars and Training Conferences in Diagnosis Cytopathology for Residents in Pathology
- 1984 – Present Instructor, Pathology (Endocrine System, Female Reproductive System, Cytopathology), BMS 6600

University of Pennsylvania School of Medicine:

- 1981 – 1984 Participating Faculty. Postgraduate Course on "Present Concepts in Obstetrics and Gynecology" (Dr. C.-R. Garcia, Course Director). Lecture and Syllabus on "Pathology of Oviducts and of Embryonic Remnants" and on "Uterine Pathology"
- 1981 – 1983 Participating Faculty. Interdepartmental Course ID 253 on Reproductive Endocrinology and Physiology. Lectures on "Ovarian Anatomy and Follicular Development", "Functional Morphology of the Oviduct and Uterus" and "Morphology of the Male Reproductive Tract"
- 1979 – 1980 Participating Faculty. Physiology 100. Lectures on "Physiology of Cervical Mucus"
- 1979 – 1980 Participating Faculty. Course 150 on Introduction to Reproduction. Lecture on "Oncogenesis"
- 1975 – 1977 Participating Faculty. Refresher Course in Obstetric and Gynecologic Pathology for Residents in Obstetrics and Gynecology
- 1975 – 1976 Participating Faculty. Cell Physiology 510. Lecture on "Cell Structure"
- 1975 – 1984 Group Leader. Pathology 100A and 100B
- 1973 – 1984 Participating Faculty. Postdoctoral Program in Reproductive Biology. Lectures on female and male reproductive tracts and on principles and applications of tissue culture. Workshops on "Harvesting and Culture of Granulosa Cells and Follicular Oocytes", "Isolation and Culture of Ovarian Follicles" and "Separation and Culture of Endocervical Cells"

1982 – 1983 Member, Committee for Doctor of Philosophy Degree in Physiology (Mr. Allen Rushmer, doctoral candidate. Thesis: “The effects of proestrus surge and in vitro gonadotropin treatment on the protein synthesis of follicle enclosed granulosa cells”)

Other Institutions:

1991 External Examiner for Doctor of Philosophy Degree in Anatomy (Ms. Patricia Kruk, doctoral candidate. Thesis: “Human Ovarian Surface Epithelial Cells in Culture”). The University of British Columbia, Vancouver, Canada

1969– 1972 Lecturer. Seminars in Obstetric and Gynecologic Pathology (Department of Pathology, Michael Reese Hospital and Medical Center, Chicago, IL)

1968 Lecturer. Seminars in Colposcopy and Cytology of the Female Genital Tract (Department of Obstetrics and Gynecology, Catholic University Hospital, Rome, Italy)

DOCTORAL TRAINEES:

1995 – 1997 Liz Mitchell, M. Sc. Student (M. Sc. Program in Biology). University of South Florida College of Medicine, Tampa, FL

1992 – 1995 Caroline Fultz, Ph.D. graduate student (Ph.D. Program in Medical Sciences – Pathology). University of South Florida College of Medicine, Tampa, FL

POST-DOCTORAL TRAINEES:

2002-2003 Holaysan, J, Dept of Pathology, H. Lee Moffitt Cancer Center and Research Institute, Tampa, Florida

2001-2002 Zoltan, M, Dept. of Pathology, H. Lee Moffitt Cancer Center and Research Institute, Tampa, Florida

2000-2001 Hall, C., Dept. of Pathology, H. Lee Moffitt Cancer Center and Research Institute, Tampa, Florida

1998 – 1999 Hakam, E., Dept. of Pathology Program, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL

1994 – 1995 Pierro, E., Dept. of Obstetrics and Gynecology, Catholic University School of Medicine and Surgery, Rome, Italy

1992 – 1993 Giacomini, G., Dept. of OB-GYN, University of Bologna, Italy

1990 – 1991	Shabaik, A., Assistant Professor of Pathology, UCSD, San Diego, CA
1989 – 1990	Horowitz, S., Medical Director, Roche Biomedical Laboratory, Clearwater, FL
1987 – 1991	Setrakian, S., Assistant Professor, Dept. of Pathology, Case Western Reserve, Cleveland, OH
1988 – 1990	Ku, N.K., Assistant Professor of Pathology, Dept. of Pathology, University of South Florida, Tampa, FL
1982 – 1983	Osterholzer, H.O., Lieutenant Colonel, Navy General Hospital, San Francisco, CA
1980 – 1981	Tojo, R., Clinical Professor, Dept. of Obstetrics and Gynecology, Univ. of Keio, Keio, Japan
1978 – 1980	Chilton, B.S., Professor, Dept. of Anatomy, Texas Tech. University, Lubbock, TX
1975 – 1978	Batta, S.K., Assistant Professor, Dept. of Physiology, Univ. of Maryland, Baltimore, MD (1979-1983)

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES:

International Societies:

1981 – Present	International Society of Gynecological Pathologists
1972 – Present	United States and Canadian Academy of Pathology
1970 – Present	International Federation of Fertility Societies
1983 – 1989	European Tissue Culture Society

National Societies:

1993 – 2000	Papanicolaou Society of Cytopathology
1982 – Present	American Society of Cytopathology (formerly American Society of Cytology)
1979 – 1985	Electron Microscopy Society of America
1977 – Present	American Society for Cell Biology
1973 – 1991	American Association for the Advancement of Science
1972 – Present	Society for the Study of Reproduction
1971 – Present	Society for In Vitro Biology (formerly American Tissue Culture Association)

1970 – 2001 American Society for Reproductive Medicine (formerly American Fertility Society)

1969 – 1979 National Association of Interns and Residents

Local Societies:

1985 – Present Florida West Coast Association of Pathologists

1985 – Present Florida Society of Cytology

1976 – 1984 Philadelphia Electron Microscopy Society

1972 – Present Michael Reese Hospital Alumni Association

1971 – Present University of Illinois at the Medical Center Alumni Association

EDITORIAL POSITIONS:

As Member of Editorial Board:

2002 – Present Cancer On-Line Reviewer

1995 – Present Frontiers in Bioscience

1993 – Present Cancer Control Journal of the Moffitt Cancer Center

1993 – Present In Vitro Cellular and Developmental Biology

As Editor Ad Hoc:

1995 – Present Proceedings of the Society for Experimental Biology and Medicine

1995 – Present Frontiers in Bioscience

1994 – Present American Journal of Physiology (Endocrinology and Metabolism)

1994 – Present American Journal of Pathology

1992 – Present Journal of Maternal-Fetal Medicine

1991 – Present Acta Cytologica

1989 – Present Laboratory Investigation

1988 – Present Endocrinology

1976 – 1985 Biology of Reproduction

1976 – 1985 Scanning Electron Microscopy Symposia

1981 – 1984 In Vitro

1981 – 1984 American Journal of Obstetrics and Gynecology

1980 – 1984 Biological Bulletin

1973 – 1976 Fertility and Sterility

As Reviewer:

2002-2003 Cancer Journal On-Line Review

GRANT REVIEW POSITIONS:

2002 Committee Member, National Cancer Institute, C-GRB Study Section, John Hopkins Hospital Program Project Review “Ovarian Serous Carcinoma”

2000 Committee Member, National Cancer Institute, C-GRB Study Section, Core Grant Review, Jefferson Kimmel Cancer Center, Philadelphia, PA

2000 Committee Chairman, National Cancer Institute, C-GRB Study Section University of California at San Francisco, California. Program Project Review: Biology of Ovarian Cancer

1999 – Present National Cancer Institute, C-GRB Study Section

1995 – 1998 Department of Defense, Breast Cancer Initiative Project (Pathobiology Study Section)

1993 – Present National Institutes of Health (Ad Hoc) (Pathology B Study Section)

1993 – Present American Cancer Society Institutional Grant Program, H. Lee Moffitt Cancer Center and Research Institute

1990 – Present National Cancer Institute (Ad Hoc)

1989 – Present H. Lee Moffitt Cancer Center Research Grant Program (Committee Chairman)

1987 – Present British Columbia Health Care Foundation

1980 – 1982 National Foundation March of Dimes

CONSULTANT POSITIONS:

2002 External Advisor- Shared Resources Review, Wake Forest University, Winston, Salem, December 8-9, 2002

1991 – 1992 Roche Biomedical Laboratories (Cell Image Analysis Systems)

AWARDS AND HONORS:

February 2001 4th Hill Lecture on “Growth and Morphogenesis in Ovarian Epithelial Cancer”. Department of Pathology, Baylor College of Medicine, Houston, Texas

- November 1998 New Frontiers in Cytology Research Award (as co-investigator with Drs. Ahmad, Ku, Muro-Cacho, Cox, and Reintgen), Annual Meeting of American Society of Cytopathology, November 1998, Nashville, TN
- October 1997 Member of the H. Lee Moffitt Cancer Center Breast Cancer Program: 10 Best Hospitals for Quality Care, Self Magazine
- June 1995, 1999 Best Doctors in America: Southeast Region
- May 1994 Keynote speaker (*Lectio Magistralis*) on "Studies on the Biopathology of Ovarian Mesothelium". 70th Congress of the Italian Society of Obstetrics and Gynecology, Rome, Italy
- September 1990 Keynote speaker on "Mechanisms of Ovarian Aging". 66th Congress of the Italian Society of Obstetrics and Gynecology, Brescia, Italy
- March 1988 Sigma Xi Scientific Research Society
- March 1988 Arthur Purdy Stout Society of Surgical Pathologists
- May 1987 Tenure, University of South Florida Health Sciences Center
- December 1980 American Men and Women of Science
- May 1979 Honorary Member, Sociedad de Obstetricia y Gynecologia de Rosario, Argentina
- August 1978 Member of the Corporation, Marine Biology Laboratory, Woods Hole, MA
- June 1972 Alumni Association Research Assay Award (Michael Reese Medical Research Institute, Chicago, IL)
- July 1971 Chief Resident in Pathology (Michael Reese Hospital and Medical Center, Chicago, IL)
- July 1967 Dean's Scholarship for best thesis of first graduating class (Catholic University of the Sacred Heart School of Medicine and Surgery, Rome, Italy)

ACTIVITIES IN SCIENTIFIC SOCIETIES:

- June 2002 Director of Conferences, 19th Cancer Conference and Slide Seminar, the Colony Beach & Tennis Resort, Longboat Key, FL
- January 2002 Meeting Host and Sponsor, GRIPE Winter Meeting 2002, University of South Florida College of Medicine, Tampa, FL

- May 2000 Director of Conference, 18th Cancer Conference and Slide Seminar, Colony Beach and Tennis Resort, Longboat Key, FL
- December 1999 ASCP Teleconference, "Cytology of Proliferative Breast Lesions", December 16, 1999
- November 1999 Director of Workshop, "Breast Aspiration Biopsy Cytology with Emphasis on Proliferative Lesions and Low Grade Neoplasms", 47th Annual Scientific Meeting of the American Society of Cytopathology, November 2-6, 1999, Sacramento, CA
- November 1998 Director of Workshop, "Breast Aspiration Biopsy and Intraoperative Cytology", 46th Annual Scientific Meeting of the American Society of Cytopathology, November 3-7, 1998, Nashville, TN
- November 1998 Moderator of Diagnostic Slide Seminar, 46th Annual Scientific Meeting of the American Society of Cytopathology, November 3-7, 1998, Nashville, TN
- May 1998 Director of Conference, 17th Cancer Conference and Slide Seminar, "Multimodality Approach to Tumor Diagnosis", May 16-17, 1998, Clearwater Beach, FL
- April 1998 Director of Conference, "Cytopathology Review, 1998", Interim Meeting of the American Society of Cytopathology, Seattle, WA
- April 1997 Director of Conference, "Cytopathology Review, 1997", Interim Meeting of the American Society of Cytopathology, Baltimore, MD
- November 1996 Director of Workshop, "Breast Aspiration and Intraoperative Cytology", 44th Annual Scientific Meeting of the American Society of Cytopathology, Denver, CO
- June 1996 Director of Conference, 16th Annual Cancer Conference and Slide Seminar, Longboat Key, FL
- March 1996 Director of Conference, "Cytopathology Review, 1996", Interim Meeting of the American Society of Cytopathology, Savannah, GA
- June 1995 Director of Conference, 15th Annual Cancer Seminar and Slide Seminar, Longboat Key, FL
- May 1995 Director of Conference, "Cytopathology Review, 1995", Interim Meeting of the American Society of Cytopathology, San Diego, CA
- November 1994 Chairman of Scientific Program (Platform Session), 42nd Annual Meeting of the American Society of Cytopathology, Chicago, IL
- June 1994 Director of Conference, 14th Annual Cancer Conference and Slide Seminar, Longboat Key, FL

- June 1993 Director of Conference, 13th Annual Cancer Conference and Slide Seminar, Longboat Key, FL
- June 1992 Director of Conference and Moderator of Session on "Gynecologic Pathology", 12th Annual Cancer Conference and Slide Seminar, Longboat Key, FL
- November 1991 Chairman, Poster Discussion Session on "FNA of the Breast", 39th Meeting of the American Society of Cytology, Los Angeles, CA
- June 1991 Co-director of Conference and Moderator of Session on "Fine Needle Aspiration Biopsy of the Lung, Pleura and Mediastinum", 11th Annual Cancer Conference and Slide Seminar, American Cancer Society, Longboat Key, FL
- June 1990 Co-director of Conference and Moderator of Session on "Aspiration Biopsy Cytology of Deep Lesions", 10th Annual Cancer Conference and Slide Seminar, American Cancer Society, Longboat Key, FL
- June 1989 Moderator of Session on "Gynecological Neoplasms", 9th Annual Conference and Slide Seminar, American Cancer Society, Florida Division, Longboat Key, FL
- June 1986 Co-director of Session on "Gynecological Tumors", 6th Annual Cancer Conference and Slide Seminar, American Cancer Society, Florida Division, Longboat Key, FL
- October 1985 Co-director and Moderator of University of South Florida Clinical Continuing Education Teleconference on "The Role of the Laboratory in the Diagnosis and Management of Infertility", Saddlebrook, FL
- April 1984 Organizer and Chairman of Session on "New Concepts in Reproductive Biology", 1984 Scanning Electron Microscopy Meetings, Philadelphia, PA
- August 1982 Chairman of Session of "Reproduction and Development", 40th Meeting of the Electron Society of America, Washington, DC

PRINCIPAL INVESTIGATOR OF GRANTS:

- 2002 – 2006 "Cell Growth and Survival in Ovarian Surface Epithelial Cancer. Program Project US Army/Department of Defense OCRP DAMD17-02-1-0670. \$1,745,177.
- 2000-2005 Pathology Core, NCI Molecular Oncology Program, H. Lee Moffitt Cancer Center and Research. \$75,000
- 1987 – 1990 "Pathobiology of Ovarian Surface Epithelium". Institute: Veterans Administration. \$219,672

- April 1988 – March 1989 “A Comparative Flow Cytometry and Image Analysis Study of DNA in Gynecological Cancers”. University of South Florida Intramural Biomedical Research Grant. \$5,000
- January 1982 - December 1986 “Electron Microscopy Core Facilities”. Awarding Institute: NICHD. USPHS No. 2. PO1 HD-06274-11A1 Sub Em Core. \$300,188
- January 1982 - December 1983 “Cervical Mucus: Role of Endocervical Stroma, Vascular Permeability and Serum”. Awarding Institute: NICHD. USPHS No. 2. PO1 HD-06274-11A1 Sub 1. \$110,556
- January 1977 - December 1981 “Cervical Mucus Production by Endocervical Cells in Tissue Culture”. Awarding Institute: NICHD. USPHS No. 2. PO1 HD-06274 Sub 4. \$432,049
- January 1977 - December 1981 “Electron and Light Microscopy Core Facilities”. Awarding Institute: NICHD. USPHS No. 2. PO1 HD-06274 Sub Core. \$224,955
- July 1973 – June 1977 “Basic Science Research Position in Reproductive Biology: A Study of Reproductive Tissues”. Awarding Institute: Rockefeller Foundation No. 5-24398. \$182,000

CO-INVESTIGATOR OF GRANTS:

- 2001-2004 “AKT1 Oncogene in Human Carcinogenesis”, USPHS-NIH-NCI, \$875,000 (P.I.: Jin Cheng, Ph.D.)
- 2001-2004 “Role of Vitamin D and its receptor in Ovarian Epithelial Cancer and Treatment”, Department of Defense, \$ 296,000.
- 2001 – 2004 “AKT2 Oncogene and Phosphoinositide 3-kinase in Human Breast Cancer”, Department of Defense, \$434,634 (P.I.: Jin Q. Cheng)
- 2000 – 2005 Pathology Core, NCI Molecular Oncology Program Project, H. Lee Moffitt Cancer Center and Research Institute. \$650,000 (P.I.: William Dalton)
- 2000 – 2001 “Evaluation of Plasma Lysophosphatidic Acid as a Biomarker in Ovarian Cancer”, American Cancer Society (P.I.: Rebecca Sutphen)
- 2000 – 2003 “Phosphoinositide 3-kinase/AKT1 Pathway and Human Ovarian Epithelial Cancer”, Department of Defense OC99075, \$434,634 (P.I.: Jin Q. Cheng, Ph.D.)
- 1998 – 2001 Pathology Core, NCI core Grant IP30 – CA 76292, NCI- designated H. Lee Moffitt Cancer Center and Research Institute. \$94,170 (P.I.: John Ruckdeschel)

- 1996 – 2001 “Computer-Assisted Diagnosis for Mammographic Calcifications”. USPHS-NIH-NCI R29-96PO259. \$476,457 (P.I.: Maria Kallergi)
- 1994 – 1996 “Lymphatic Mapping and the Accurate Staging of the Breast Cancer Patient”. H. Lee Moffitt Cancer Center Research Grant Program. \$58,024 (P.I.: Douglas Reintgen)
- 1994 – 1995 “Scanning Electron Microscopy of Luminal Changes in the Human Endometrium as a Marker of the Implantation Window”. USF Research and Creative Scholarship Grant Program. \$7,500 (P.I.: G. Maroulis)
- 1993 – 1994 “Growth Regulators in Uterine Leiomyomas”. USF President Council Faculty Award. \$5,000 (P.I.: J. Tsibris)

OTHER AWARDS:

- March 1996 University of South Florida College of Medicine OCO Scientific Equipment – Confocal Microscope System: \$112,000 (co-awardee Dr. Karl Muffly, Department of Anatomy)
- March 1995 University of South Florida College of Medicine OCO Scientific Equipment – Support for Transmission and Scanning Electron Microscopy Core Facility: \$62,000 (co-awardee Dr. Johannes Rhodin, Department of Anatomy)

CONSULTANT OF GRANTS:

- 2002 GYN Spore Review Panel, National Cancer Institute, Scientific Review Panel, Bethesda, MD, July 31-August 1, 2002.
- 1994 – 1996 “A Randomized Double-blind, Parallel-group, Multicenter Dose Ranging Study to Evaluate a Cyclophasic Hormone Replacement Therapy Regimen of Estradiol and Norgestimate”. The R. W. Johnson Pharmaceutical Research Institute. \$217,940 (direct support to consultant)
- 1990 – 1993 “Enhancing Magnetic Resonance Images for Improved Cancer Diagnosis”. ACS/NASA (NSTL). \$305,000 (W. Clarke, P.I.)

PATENTS:

Guinea Pig Model for Leiomyoma Development, US94B34 WO/CP (with Drs. John Tsibris, William Spellacy, William O'Brien, John Balis, and Kathy Porter)

RESEARCH AND ACTIVITIES:

- 1969 as Obstetrics & Gynecology resident, Department of Obstetrics & Gynecology, Catholic University of the Sacred Heart School of Medicine and Surgery, Rome, Italy. Immunofluorescence and electrophoretic studies of immunoglobulins in the human cervix.

- 1970 – 1972 as Pathology resident and graduate student, Department of Pathology, Michael Reese Hospital and University of Illinois Medical Center, Chicago, IL. Ultrastructure and biochemical studies of granulosa Cell luteinization in vitro.
- 1972 – 1973 as USPHS Fellow in Reproductive Biology, Department of Obstetrics and Gynecology, University of Pennsylvania School of Medicine, Philadelphia, PA. Morphometry of granulosa cell luteinization.
- 1973 – 1984 as Faculty Member, Department of Obstetrics and Gynecology, Division of Reproductive Biology, University of Pennsylvania School of Medicine, Philadelphia, PA. Morphophysiology of Mammalian reproduction from ovarian folliculogenesis to cervical mucus secretion and fertilization. Biology of ovarian surface epithelium. Ovarian aging.
- 1984 – Present as Faculty Member, Department of Pathology, University of South Florida College of Medicine, Tampa, FL. Pathobiology of ovarian mesothelium (surface epithelium). Intraovarian growth factors. Mesothelial-stromal interactions in the mammalian ovary. DNA cytophotometry and immunocytochemistry in cytopathology.

COMMUNITY SERVICE:

- November 1992 – Present Member, Hillsborough County United Way Leadership Giving Campaign – The Keel Club
- November 1992 “The Role of the Pathologist in the Management of Breast Cancer”. FACTors (Fighting Against Cancer Together) Breast Cancer Support Group, H. Lee Moffitt Cancer Center, Tampa, FL
- June 1992 “Research in Gynecological Cancer”. Summer Institute on Medical & Biological Research. School District of Hillsborough County, Tampa, FL
- 1991 – Present Breast Cancer Task Force, Greater Tampa American Cancer Society, Tampa, FL
- Fall 1982 Member, Fundraising Committee, St. Mary Catholic Church, Medford, NJ
- November 1972 “Control of Follicular Cell and Oocyte Maturation”. (Radio Monteceneri, Swiss Broadcasting Company)

INVITED PRESENTATIONS AND WORKSHOPS:

- Sept 2002 Plasma & Urinary Levels of Angioregulators in Ovarian Epithelial Cancer 4th Biennial Ovarian Cancer Research Symposium: Integration of Research & Treatment, Marsha Rivkin Center for Ovarian Cancer, Seattle, WA, September 19-20, 2002.

- July 2002 Cell Growth and Morphogenesis in Ovarian Epithelial Cancer. University of Washington, Seattle, WA, July 23-30, 2002.
- June 2002 "Aspiration Biopsy Cytology and Diagnostic Pitfalls, Breast Lesions" The Osler Institute, Tampa, FL
- June 2002 "Applications of Laser Capture Microdissection in Pathology", Applications and Immunohistochemistry in Pathology". Cancer Research Techniques, Training Progress in Cancer Biology, H. Lee Moffitt Cancer Center, Tampa, FL
- October 2001 Fourth Annual International Ovarian Cancer Screening Meeting: "Plasma and Urinary Angiogenic Cytokines in Ovarian Cancer Patients". "Cytology of Human Ovarian Mesothelial Brushings." The Fred Hutchinson Cancer Research Center, Seattle, WA, October 18-19, 2001
- March 2001 "Development of Models and Integration of Resources", Helen Harris Memorial Trust 8th International Forum on Ovarian Cancer, March 20-23, Houston, TX
- February 2000 "Pathologic Evaluation of Sentinel Lymph Nodes in Breast Cancer", Houston Society of Clinical Pathologists, February 28, 2001, Houston, Texas
- July 2000 "Faculty and Staff Incentive Plans/Effort Evaluation/Productivity Measurements", APC/PRODS/PDAS Meeting 2000, July 27, 2000 Boulder, CO
- May 2000 "Aspiration Biopsy Cytology and Diagnostic Pitfalls of Proliferative Breast Lesions", Florida West Coast Association of Pathologists, May 18, 2000, Tampa, FL
- April 2000 "Aspiration Biopsy Cytology and Diagnostic Pitfalls of Proliferative Breast Lesions". Cytopathology Las Vegas 2000, American Society of Cytopathology, April 28-30, 2000, Las Vegas, NV
- November 1998 "Breast Aspiration Biopsy and Intraoperative Cytology". 46th Annual Scientific Meeting of the American Society of Cytopathology, November 3-7, 1998, Nashville, TN
- July 1998 "Aspiration Biopsy of Breast Lesions". The Osler Institute, July 10, 1998, Tampa, FL
- April 1998 "Control of Cell Growth and Papillogenesis in Ovarian Mesothelium". British Columbia Women's Hospital, Department of Obstetrics and Gynecology, University of British Columbia, April 21, 1998, Vancouver, Canada
- April 1998 "Aspiration Biopsy Cytology of Breast Lesions". 1998 Cytology Conference on Breast Mass Evaluation, April 18, 1998, Winnipeg, Manitoba, Canada

- April 1998 "Cytology of Proliferative Breast Lesions: Challenge from the Chest #2". Cytopathology Review 1998, Seattle, WA
- January 1998 "Intraoperative Cytological Evaluation of Lumpectomy Margins", "Evaluation of Sentinel Lymph Node(s) in Breast Cancer", "Cervicovaginal Cytology". Florida Society of Pathologists 1998 Winter Meeting, January 30, 1998, Orlando, FL
- November 1997 "Aspiration Biopsy and Intraoperative Cytology of Breast Lesions" (with Ni Ni K. Ku and Annette J. Williams, CT, ASCP), 45th Annual Scientific Meeting of American Society of Cytopathology, Boston, MA
- October 1997 "Giovan Battista Morgagni: The Man and His Historical Contributions to Anatomic Pathology". 1997 Annual Meeting of Southeast Association of Pathology Chairs, Perdido Beach, AL
- April 1997 "Diagnostic Pitfalls and Borderline Lesions in Breast Aspiration Cytology". 1997 Cytopathology Review, American Society of Cytopathology, Baltimore, MD
- April 1997 "Microenvironmental Factors in Ovarian Epithelial Cancer". Department of Obstetrics and Gynecology, University of Illinois at the Medical Center, Chicago, IL
- March 1997 "Giovan Battista Morgagni and the Beginnings of Anatomic Pathology". Companion Meeting (Pathology History Society), 86th Annual Meeting of the United States and Canadian Academy of Pathology, Orlando, FL
- November 1996 "Breast Aspiration and Intraoperative Cytology". 44th Annual Scientific Meeting of American Society of Cytopathology, November 8, 1996, Denver, CO
- May 1996 "Breast Aspiration Cytology" and "Control of Papillogenesis in Normal and Neoplastic Ovarian Mesothelium". Spring Seminar, Department of Pathology, University of Florida, Gainesville, FL
- May 1996 "Biology of Ovarian Aging and Epithelial Cancer". Annual Meeting of the American Geriatric Society and American Federation for Aging Research, Chicago, IL
- March 1996 "Breast Aspiration and Intraoperative Cytology". 1996 Cytopathology Review. American Society of Cytopathology, Savannah, GA
- October 1995 "Growth and Papillogenesis in Cultured and Native Ovarian Mesothelia: Possible Insight into the Initiation of Ovarian Epithelial Cancer". Fox Chase Cancer Center, Philadelphia, PA

- June 1995 "Mechanisms of Papillogenesis in Experimental Ovarian Mesothelial Proliferations" and "Diagnostic Pitfalls in Aspiration Biopsy Cytology of Breast Lesions". 15th Annual Cancer Conference and Slide Seminar, Longboat Key, FL
- May 1995 "Intraabdominal and Retroperitoneal Aspiration Cytology" and "Breast Aspiration and Intraoperative Cytology". 1995 Cytopathology Review. American Society of Cytopathology, San Diego, CA
- September 1994 "Control of Papillogenesis in Benign and Malignant Ovarian Mesothelium". 3rd Sapporo International Symposium on Ovarian Function, Sapporo, Japan
- September 1994 "Fine Needle Aspiration and Cytology Workshop" (in coll. with Drs. C. E. Cox and N. N. K. Ku). 5th Annual Cancer Conference. Clinical and Research Advances in Melanoma and Breast Cancer: Prevention and Early Detection of Cancer, Orlando, FL
- May 1994 James W. Reagan Memorial Lecture on "Regulation of Ovarian Mesothelium". Department of Pathology, Case Western Reserve University, Cleveland, OH
- May 1994 "Aspiration Cytology of Head and Neck Lesions". Department of Pathology, Case Western Reserve University, Cleveland, OH
- March 1994 "Intraabdominal Aspirations". Cytopathology Review, American Society of Cytology, Deerfield Beach, FL
- November 1993 "Diagnostic Cytology Seminar" Panel Discussant. 41st Annual Scientific Meeting, American Society of Cytology, Houston, TX
- June 1993 "Neoplasms of the Skull Base: Indications and Pitfalls in Fine Needle Aspiration Biopsy Cytology". 13th Annual Cancer Conference and Slide Seminar, Longboat Key, FL
- February 1993 "Mechanisms of Papillogenesis in the Ovarian Mesothelium". 20-year Anniversary Meeting of the Pathology Alumni of the University of South Florida Affiliated Programs, Tampa, FL
- November 1992 "Aspiration Biopsy Cytology of Breast Lesions". Physician's Reference Laboratory/SmithKline Beecham Laboratory, Tampa, FL
- November 1992 "Ovarian Epithelial Cancer", "Interpretation of Endometrial Biopsy", and "Role of Fine Needle Aspiration Biopsy in Gynecology". Comprehensive Review in Gynecology, Lake Buena Vista, FL
- September 1992 "The Diagnosis of Breast Cancer: Fine Needle Aspiration and Touch Preparation Cytology of Needle Localization Biopsies". 4th Annual Melanoma and Breast Cancer Conference: Clinical and Research Advances", Orlando, FL

- July 1992 "Essentials of Fine Needle Aspiration for Clinicians" and "Fine Needle Aspiration: Pathology Interpretation of Selected Sites". St. Mary's Hospital, West Palm Beach, FL
- June 1992 "Endometrial Biopsy". 12th Annual Cancer Conference and Slide Seminar, Longboat Key, FL
- April 1992 "Growth Stimulation of Ovarian Surface Epithelium in the Rabbit". Ovarian Cancer Workshop. Investigational Strategies for Detection and Intervention in Early Ovarian Cancer (Sponsoring Institution: Natl Cancer Institute), Annapolis, MD
- March 1992 Course on Exfoliative and Aspiration Biopsy Cytology. Colombian Society of Pathology, Manizales, Colombia
- October 1991 "Issues Related to Management of Primary Breast Cancer" (in coll. with Drs. N. N. K. Ku, C. Cox, R. Foster, H. Greenberg, and C. Roberts). Breast Cancer in Older Women. An Agenda for the 90s, Clearwater Beach, FL
- October 1991 "Mechanisms of Postovulatory Ovarian Surface Epithelium Repair". Gametes, Fertilization and the Fallopian Tube: Scientific and Ethical Considerations. 25th Anniversary Founding of the Division of Reproductive Biology. University of Pennsylvania School of Medicine, Philadelphia, PA
- August 1991 "Fine Needle Aspiration Biopsy of Lung, Pleura and Mediastinum". 31st Annual Southern Association of Cytotechnologists, Panama City, FL
- June 1991 "Procurement and Cytopreparatory Techniques" (in coll. with R. Clark, M.D.). 11th Annual Cancer Conference and Slide Seminar, American Cancer Society, Longboat Key, FL
- October 1990 "Lung Cancer: The Cytologist's Perspective". Conference on Early Detection of Lung Cancer for the Primary Care Physician, American Cancer Society, Tampa, FL
- October 1990 Co-director (with N. Auersperg) of Scientific Session on "Biology of Ovarian Cancer. Biology and Therapy of Ovarian Cancer". (Sponsoring Institutions: Fox Chase Cancer Center and National Cancer Institute), Marble Island, VT
- October 1990 "Biology of Ovarian Surface Epithelium". Department of Obstetrics and Gynecology, University of Bologna, Bologna, Italy
- September 1990 Workshop Director: "Fine Needle Aspiration Cytology of Lung and Mediastinum". 1990 Annual Fall Meeting of the Florida State Society of Cytology, Naples, FL

- June 1990 "Aspiration Biopsy Cytology of Intraabdominal Organs". 10th Annual Cancer Conference and Slide Seminar, American Cancer Society, Longboat Key, FL
- April 1990 "Endometrial Cytology. The Cytologist's Perspective". Conference on "Early Detection of Common Gynecologic Cancers for the Primary Care Physician". American Cancer Society, Tampa, FL
- February 1990 "Endo-Pap Cytology of Endometrial Cancer and Precursor Lesions". OB-GYN Grand Rounds, Tampa General Hospital, Tampa, FL
- February 1990 "DNA Ploidy and S-Phase". Blake Memorial Hospital, Bradenton, FL
- June 1989 "DNA Analysis" and "Ovarian Neoplasms". 9th Annual Cancer Conference and Slide Seminar, American Cancer Society, Longboat Key, FL
- February 1989 "Aspiration Biopsy Cytology of Head and Neck". 23rd Annual Cancer Society John K. Frost Cytopathology Workshop, Eckerd College, St. Petersburg, FL
- December 1988 "Tissue Handling and Cytology". Cancer Management Course, American College of Surgeons, Tampa, FL
- November 1988 "Fine Needle Aspiration of the Thyroid Gland" (in coll. with Tilde S. Kline, M.D.). American Society of Cytology, 36th Annual Meeting, Kansas City, MO
- September 1988 "Endometrial Cytology" and "Fine Needle Aspiration Cytology of the Breast". 1988 Annual Fall Meeting of the Florida State Society of Cytology, Orlando, FL
- July 1988 "Regulation and Temporal Sequence of Surface Epithelium Morphogenesis in the Postovulatory Rabbit Ovary". VII International Symposium on Morphological Sciences, Rome, Italy
- October 1987 Seminar Director: "Fine Needle Aspiration Biopsy: Indications, Technique and Interpretation". Regional Laboratory Conference, Tampa, FL
- October 1986 Workshop Director, 1st Workshop on "Fine Needle Aspiration Biopsy Cytology". University of South Florida and SmithKline Bioscience Laboratory, Tampa, FL
- June 1986 "Developmental Aspects of Ovarian Surface Epithelial Cancer". 6th Annual Cancer Conference and Slide Seminar, American Cancer Society, Florida Division, Longboat Key, FL
- February 1983 "Isolation and Growth Characteristics of Ovarian Surface Epithelium". Department of Pathology, Medical College of Pennsylvania, Philadelphia, PA and Department of Pathology, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

- July 1982 "Influence of Estrogen on Progesterone Receptor and Glycoprotein Biosynthesis in the Epithelial Stromal Complex of the Rabbit Endocervix". (Poster presentation in coll. with Drs. B. S. Chilton and C. R. Lyttle). Gordon Research Conference on Mammalian Genital Tract, Brewster Academy, Wolfeboro, NH
- January 1981 "Macromolecular Regulation of Cervical Mucus Secretion". Department of Obstetrics and Gynecology, Catholic University of the Sacred Heart School of Medicine and Surgery, Rome, Italy
- November 1980 "Cytological Analysis of the Mammalian Egg". Symposium on "In Vitro Fertilization: as a Clinical Tool/as a Research Tool". Wistar Institute of Anatomy and Biology, Philadelphia, PA
- July 1980 "Hormonal Modulation of Endocervical Cytodifferentiation and Mucin Biosynthesis". (Poster presentation in coll. with Dr. B. S. Chilton). Gordon Research Conference on Mammalian Genital Tract Secretions, Colby-Sawyer College, New London, NH
- July 1980 "An In Vivo and In Vitro Analysis of Cervical Mucus Secretion". Symposium on Cervical Mucus, 10th World Congress on Fertility and Sterility, Madrid, Spain
- January 1980 "Follicular Atresia". Department of Obstetrics and Gynecology, University of California, San Francisco, CA
- January 1980 "Control of Mucus Secretion in Vertebrate and Invertebrate Cells". Department of Pathology, University of California, San Francisco, CA
- May 1979 Symposium on "Physiopathology of the Human Ovary". Lectures on: "Cytological Analysis of In Vivo and In Vitro Luteinization" and "In Vitro Studies of Follicular Morphogenesis, Development and Atresia". Workshop on: "The Use of In Vitro Techniques for the Study of Ovarian Function". Universidad Nacional de Rosario, Rosario, Argentina
- April 1979 "Pathology of the Female Reproductive Tract". Department of Pathology, University of Pennsylvania School of Dental Medicine, Philadelphia, PA
- January 1979 "Control of Mucus Secretion in Vertebrate and Invertebrate Cells". Dept of Pathology, Harbor General Hospital-UCLA, Los Angeles, PA
- April 1977 "Aspects of In Vitro Fertilization and Sperm-Egg Interaction". (Presented jointly with Dr. D. P. Wolf). Department of Obstetrics and Gynecology, Michael Reese Hospital and Medical Center, Chicago, IL
- April 1977 "Mammalian Endocervical Cells In Vitro". Department of Obstetrics and Gynecology, Chicago Lying-in, University of Chicago, Chicago, IL

- August 1976 "Tissue Culture Techniques Applied to Reproductive Biology".
(Presented jointly with Dr. C. Channing). 9th Annual Meeting of
the Society for the Study of Reproduction, Philadelphia, PA
- July 1976 "Cortical Granule Distribution and Cell Surface Characteristics in
Mouse Eggs". Marine Biology Laboratory, Woods Hole, MA
- July 1970 "Luteinization of Rabbit Granulosa Cells in Tissue Culture".
Department of Obstetrics and Gynecology, Catholic University of
the Sacred Heart School of Medicine and Surgery, Rome, Italy

ORIGINAL PAPERS: (Invited Papers and Book Chapters Marked with an Asterisk)

1. Nicosia SV, Wilbanks GD, Saunders B, Mayer J, Cardosi R, Kruk PA, Cheng JQ, Bai W, Coppola D, Fiorica J. Cytology of Human Ovarian Surface Epithelial Brushings. *Cancer Cytopathology Journal*. (In press)
2. Nicosia SV, Bai W, Cheng J, Coppola D, Kruk P. Oncogenic Pathways Implicated in Ovarian Epithelial Cancer. *Hematology/Oncology Clinics of North America devoted to Ovarian Cancer*. (In Press)
3. Gritsko T, Coppola D, Paciga J, Yang L, Sun M, Shelley S, Fiorica J, Nicosia SV, Cheng JQ. Activation and Overexpression of Centrosome Kinase BTAK/Aurora-A in Human Ovarian Cancer. *Clin Can Res Vol 9*, 1420-1426, April 2003
4. Becker JL, Kacinski BM, Nicosia SV, Rodriguez G, Hamilton TC. Development of Experimental Models of Ovarian Cancer. *Gyn Onc 88*, S52-S55, 2003
5. Wright TC, Holinka CF, Ferenczy A, Gatsonis CA, Mutter GL, Nicosia SV, Richart RM. Estradiol-Induced Hyperplasia in Endometrial Biopsies from Women on Hormone Replacement Therapy. *Am J Surg Path 26(10)*:1269-1275, 2002.
6. Yuan ZQ, Feldman RI, Sun M, Olashaw NE, Coppola D, Sussman GE, Shelley SA, Nicosia SV, Cheng JQ. Inhibition of JNK by cellular stress- and TNF α -induced AKT2 through activation of the NF κ B pathway in human epithelial cells. *J Biol Chem 2002*, Aug 16:277(33):29973-82.
7. Kaneko S, Feldman RI, Yu L, Wu Z, Gritsko T, Shelley SA, Nicosia SV, Nobori T, Cheng JQ. Positive feedback regulation between Akt2 and MyoD during muscle differentiation. Cloning of Akt2 promoter. *J Biol Chem 2002 June 28*;277(26):23230-5.
8. Dan HC, Sun M, Yang L, Feldman RI, Sui, XM, Ou CC, Nellist M, Yeung RS, Halley DJJ, Nicosia SV, Pledger WJ, Cheng JQ. Phosphatidylinositol 3-Kinase/Akt Pathway Regulates Tuberos Sclerosis Tumor Suppressor Complex by Phosphorylation of Tuberin. *J Biol Chem Sep 20*:277(38):35364-70, 2002.
9. Li P, Nicosia SV, Bai W. Antagonism between PTEN/MMAC1/TEP-1 and androgen receptor in growth and apoptosis of prostatic cancer cells. *J Biol Chem 276*:20444-20450, 2001.

10. Sun M, Paciga JE, Feldman RI, Yuan Z, Coppola D, Lu YY, Shelley SA, Nicosia SV, Cheng JQ. Phosphatidylinositol-3-OH Kinase (PI3K)/AKT2, activated in breast cancer, regulates and is Induced by estrogen receptor alpha (ERalpha) via interaction between ERalpha and PI3K. *Cancer Res* 61(16):5985-91, 2001.
11. Sun M, Wang G, Paciga JE, Feldman RI, Yuan ZQ, Ma XL, Shelley SA, Jove R, Tsihchlis PN, Nicosia SV, Cheng JQ. AKT1/PKBalpha kinase is frequently elevated in human cancers and its constitutive activation is required for oncogenic transformation in NIH3T3 cells. *AM J Pathol* Aug 159(2):431-7, 2001.
12. Naidu KA, Tang JL, Naidu KA, Prockop LD, Nicosia SV, Coppola D. Antiproliferative and apoptotic effect of ascorbyl stearate in human glioblastoma multiforme cells: modulation of insulin-like growth factor-I receptor (IGF-IR) expression. *Neurooncol* 54(1):15-22, 2001.
13. Yuan ZQ, Sun M, Feldman R, Wang G, Ma X, Jiang C, Coppola D, Nicosia SV, Cheng JQ. Frequent activation of AKT2 and induction of apoptosis by inhibition of phospho-inositide-3-OH kinase/Akt pathway in human ovarian carcinoma. *Oncogene* 19:2324-2330, 2000.
14. Jiang K, Coppola D, Crespo NC, Nicosia SV, Hamilton AD, Sebti SM, Cheng JQ. The phosphoinositide 3-OH kinase/AKT2 pathway as a critical target for farnesyltransferase inhibitor-induced apoptosis. *Mol Cell Biol* 20:139-148, 2000.
15. Adnane J, Jackson RJ, Nicosia SV, Cantor A, Pledger WJ, Sebti SM. Loss of p21WAF1/CIP 1 accelerates Ras oncogenesis in a transgenic/knockout mammary cancer model. *Oncogene* 19:5338-5347, 2000.
16. Lee H, Jiang F, Wang Q, Nicosia SV, Yang J, Su B, Bai W. MEKK 1 activation of human estrogen receptor alpha and stimulation of the agonistic activity of 4-hydroxytamoxifen in endometrial and ovarian cells. *Mol Endocrinol* 14:1882-1896, 2000.
17. Bai W, Saunders BO, Wang Q, Acevedo-Duncan ME, Nicosia SV. Estrogen stimulation of ovarian surface epithelial cell proliferation involves stromal-epithelial interactions. *In Vitro Cell Dev Biol (Animal)* 36:657-666, 2000.
18. *Cheng JQ, Nicosia SV. PI3K/Akt signal transduction pathway in oncogenesis. In: *Encyclopedia Reference of Cancer* (M. Schwab, ed.), Springer, Berlin, pp.35-37, 2000.
19. Hazelton D, Nicosia RF, Nicosia SV. Vascular endothelial growth factor levels in ovarian cyst fluid correlate with malignancy. *Clin Cancer Res* 5:823-829, 1999.
20. Coppola D, Saunders B, Fu L, Mao W, Nicosia SV. The insulin-like growth factor 1 receptor induces transformation and tumorigenicity of ovarian mesothelial cells and down-regulates their Fas-receptor expression. *Cancer Res* 59:3264-3270, 1999.
21. Diaz JI, Mora LB, Austin PF, Muro-Cacho CA, Cantor AB, Nicosia SV, Pow-Sang JM. Predictability of PSA failure in prostate cancer by computerized cytometric assessment of tumoral cell proliferation. *Urology* 53:931-938, 1999.
22. Coppola D, Catalano E, Nicosia SV. Significance of p53 and Bcl-2 protein expression in human breast ductal carcinoma. *Cancer Control* 6:181-187, 1999.

23. Mora LB, Diaz JI, Cantor AB, Nicosia SV. Differential diagnosis of endometrial hyperplasia and carcinoma by computerized image cytometry of cell proliferation, apoptosis and bcl-2 expression. *Ann Clin Lab Sci* 29:308-315, 1999.
24. Cavanagh D, Fiorica JV, Hoffman MS, Durfee J, Nicosia SV. Adenocarcinoma of the endometrium: An institutional review. *Cancer Control* 6:354-360, 1999.
25. Hakam A, Yeatman TJ, Lu L, Mora L, Marcet G, Nicosia SV, Karl RC, Coppola D. Expression of insulin-like growth factor-1 receptor in human colorectal cancer. *Hum Pathol* 30:1128-1133, 1999.
26. Coppola D, Fu L, Nicosia SV, Kounelis S, Jones M. Prognostic significance of p53, bcl-2, vimentin, & S100 protein-positive Langerhans cells in endometrial carcinoma. *Hum Pathol* 29:455-462, 1998.
27. Cox CE, Ku NNK, Joseph E, Reintgen DS, Greenberg H, Nicosia SV. Intraoperative imprint cytology. In: "The Second Edition on the Breast: Comprehensive Management of Benign and Malignant Diseases". (K Bland, EM Copeland, eds.). WB Saunders Publishing Co., pp. 1118-1129, 1998.
28. Coppola D, Hyacinthe M, Fu L, Cantor AB, Karl R, Marcet J, Cooper DL, Nicosia SV, Cooper HS. CD44V6 expression in human colorectal carcinoma. *Hum Pathol* 29:627-635, 1998.
29. Coppola D, Fu L, Fruehauf JP, Kyshtoobayeva A, Karl RC, Nicosia SV, Yeatman TJ. Analysis of p53, p21^{WAF1}, and TGF- β 1 in human ductal adenocarcinoma of the pancreas: TGF- β 1 protein expression predicts longer survival. *Am J Clin Pathol* 110:16-23, 1998.
30. Liu A, Testa JR, Hamilton TC, Jove R, Nicosia SV, Cheng JQ. AKT2, a member of the protein kinase B family, is activated by growth factors, v-Ha-ras, and v-src through phosphatidylinositol 3-kinase in human ovarian epithelial cancer cells. *Cancer Res* 58:2973-2977, 1998.
31. Cox CE, Pendas S, Ku NNK, Reintgen DE, Greenberg HS, Nicosia SV. Local recurrence of breast cancer after cytological evaluation of lumpectomy margins. *The American Surgeon* 64:533-538, 1998.
32. Garcia EJ, Sandin RL, Greene JN, Baekey PA, Walling AK, Letson GD, Choy JY, Moscinski LC, Nicosia SV. Infections of the leg that mimic malignancy. *Infections in Medicine* 15:557-567, 1998.
33. Porter KB, Tsibris JCM, Porter GW, Fuchs-Young R, Nicosia SV, O'Brien WF, Spellacy WN. Effects of raloxifene in a guinea pig model for leiomyomata. *Am J Obstet Gynecol* 179:1283-1287, 1998.
34. Cowper S, Fiorica JV, Nicosia SV, Coppola D. Vaginal papillary squamous cell carcinoma. *Cancer Control* 5:179-183, 1998.
35. Nicosia SV, Nicosia LM. Clinical and laboratory technologies. In: "Guides to Clinical Aspiration Biopsy: Female Pelvic Organs". (S Selvaggi, ed.). Williams & Wilkins, Baltimore, MD, pp. 5-33, 1997.

36. Maroulis G, Nicosia SV. Aspiration cytology in reproductive-assisted technologies. In: "Guides to Clinical Aspiration Biopsy: Female Pelvic Organs". (S Selvaggi, ed.). Williams & Wilkins, Baltimore, MD, pp. 35-46, 1997.
37. Ku NNK, Mela N, Cox CE, Reintgen DS, Nicosia SV. Diagnostic pitfalls in aspiration biopsy cytology of papillary breast lesions. *Cancer Control* 4:451-457, 1997.
38. Nicosia SV, Ku NNK, Giacomini G, Pierro E, Mayer J, Nicosia RF. Ovarian mesothelium (surface epithelium) in normal, pathological and experimental conditions. In: "Recent Advances in Microscopy of Cells". (PM Motta, ed.). Piccin Press, Rome, Italy, pp. 509-517, 1997.
39. Cox CE, Hyacinthe M, Gonzalez RJ, Lyman G, Reintgen D, Ku NNK, Miller MS, Greenberg H, Nicosia SV. Cytologic evaluation of lumpectomy margins in patients with ductal carcinoma in situ: Clinical outcome. *Ann Surg Oncol* 4:644-649, 1997.
40. Coppola D, Catalano E, Nicosia SV. Involvement of transforming growth factor-alpha and c-erbB2 oncogene products in the progression of ovarian surface epithelial tumors. *Int J Surg Pathol* 4:129-136, 1997.
41. Reintgen D, Joseph E, Lyman G, Yeatman T, Balducci L, Ku N, Berman C, Shons A, Wells K, Horton J, Greenberg H, Nicosia S, Clark R, Shivers S, Li W, Wang X, Cantor A, Cox C. The role of selective lymphadenectomy in breast cancer. *Cancer Control* 4:211-219, 1997.
42. Pierro E, Nicosia SV, Saunders B, Fultz CB, Nicosia RF, Mancuso S. Influence of growth factors on proliferation and morphogenesis of rabbit ovarian mesothelial cells in vitro. *Biol Reprod* 54:660-669, 1996.
43. Mora LB, Nicosia SV, Pow-Sang JM, Ku NNK, Diaz JI, Lockhart J, Einstein A. Ancillary techniques in the followup of transitional cell carcinoma: a comparison of cytology, histology and DNA image analysis cytometry in 91 patients. *Urology* 156:49-55, 1996.
44. Diaz J, Nicosia SV, Szakacs J, Powsang J, Saba HI. Metastatic seminoma involving malignant lymphoma in an HIV infected hemophiliac. *Leukemia and Lymphoma* 23:165-171, 1996.
45. *Nicosia SV. Ovarian and peritoneal borderline neoplasms: histopathology, diagnostic pitfalls and prognostication. *Cancer Control* 3:58-65, 1996.
46. Coppola D, Catalano E, Clarke MR, Cantor A, Nicosia SV. P53 protein expression in human ductal breast carcinoma and medullary variant. *Int J Surg Pathol* 3:169-174, 1996.
47. Pinelli DM, Fiorica JV, Roberts WS, Hoffman MS, Nicosia SV, Cavanagh D. Chemotherapy plus sequential hormonal therapy for advanced and recurrent endometrial carcinoma: a phase II study. *Gynecol Oncol* 60:462-467, 1996.
48. Albertini JJ, Lyman GH, Cox C, Yeatman T, Balducci L, Ku NN, Shivers S, Berman C, Wells K, Rappaport D, Shons A, Horton J, Greenberg H, Nicosia S, Clark R, Cantor A, Reintgen DS. Lymphatic mapping and sentinel node biopsy in the patient with breast cancer. *JAMA* 276:1818-1822, 1996.

49. Nicosia SV, Diaz J, Nicosia RF, Saunders BO, Muro-Cacho C. Cell proliferation and apoptosis during development and aging of the rabbit corpus luteum. *Ann Clin Lab Sci* 25:143-157, 1995.
50. Giacomini G, Nicosia SV, Saunders BO, Fultz C, Sun X, Jasonni VM. Ovarian mesothelial and extramesothelial cells in interactive culture. *In Vitro Cell Dev Biol* 31:300-309, 1995.
51. Porter KB, Tsubris JCM, Nicosia SV, Murphy JM, O'Brien WF, Rao P, Spellacy W. Estrogen-induced guinea pig model for uterine leiomyomas: do the ovaries protect? *Biol Reprod* 52:824-832, 1995.
52. Cox C, Reintgen DS, Nicosia SV, Baekey P, Carey L. Analysis of residual cancer following diagnostic breast biopsy: an argument for fine needle aspiration cytology. *Ann Surg Oncol* 2:201-206, 1995.
53. *Morgan M, Nicosia SV, Shabaik A, Ku NNK, Szakacs J, Reintgen DS, Cox CE. Aspiration biopsy cytology of argyrophilic carcinoma (carcinoid tumor) of the breast. *Cancer Control* 2:245-249, 1995.
54. Nicosia SV, Sowinski JM. Cytological analysis of the urn cell complex of Sipunculus nudus (Linnaeus) before and after serum-induced mucus release. *Biol Bull* 188:267-280, 1995.
55. *Nicosia SV, Nicosia RF, Saunders BO, Xun X, Pierro E, Mancuso S. Control of papillogenesis in benign and malignant ovarian mesothelium. In: "New Achievements in Research of Ovarian Function". (J Strauss, S Fujimoto, AJW Hsueh, JF Strauss, P Tanaka, eds.). Ares-Serono Symposia, pp. 333-343, 1995.
56. *Nicosia SV. The role of fine needle aspiration biopsy cytology in gynecologic oncology. *Cancer Control* 1:160-165, 1994.
57. Norman J, Franz M, Schiro R, Nicosia S, Docs J, Fabri PJ, Glover WR Jr. Functional glucocorticoid receptor modulates pancreatic carcinoma growth through an autocrine loop. *J Surg Res* 57:33-38, 1994.
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RESEARCH ABSTRACTS:

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137. Ku NK, Cox CE, Reintgen DS, Greenberg HM, Nicosia SV. Intraoperative cytology: A diagnostic adjunct in the evaluation of breast lumpectomies. 37th Annual Meeting of the American Society of Cytology, Louisville, KY, November 1989. Acta Cytol 33:702a, 1989.
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139. Heal AV, Tyson I, Madden J, Roberts W, Azar H, Courey M, Nicosia SV, Greenberg H, Silbiger M. Comparison of I-131 HMFG1 MoAb kinetics in nude mice and patients with ovarian cancer. The Society of Nuclear Medicine, 36th Annual Meeting, St. Louis, MO, June 13-16, 1989.
140. Erkman-Balis B, Foulis P, Hammond M, Nicosia SV. Evaluation of carcinoembryonic antigen in bronchial washings associated patients with carcinoma of the lung. Annual Meeting of the American Thoracic Society, Cincinnati, OH, May 1989. Am Rev Resp Dis 139:218a, 1989.
141. Setrakian S, Saunders BO, Nicosia SV. Growth stimulation of ovarian and extraovarian mesothelia by corpus luteum extract. In Vitro 25:42a, 1989.
142. Heal AV, Tyson I, Tenorio L, Roberts W, Azar H, Nicosia SV, Greenberg H, Silbiger M. HMFG1, MoAb-I-131-clinical evaluation in nude mice and correlation with diagnosis and therapy in human studies. 4th International Conference on Monoclonal Antibody Immunoconjugates for Cancer, San Diego, CA, March 30-April 1, 1989.
143. Nicosia SV, Erkman-Balis B, LaPolla J, Roberts WS. An immunocytochemical study of reactive mesothelia, benign glandular inclusions and ovarian carcinomas in "second look" peritoneal washings. Lab Invest 58:67a, 1988.
144. Nicosia SV, Saunders BO. Initial characterization of a luteal growth factor for ovarian mesothelial (surface epithelial) cells. VII Ovarian Workshop, Tacoma, WA, July 30-August 1, 1988. Proceedings, 26a, 1988.

145. Nicosia SV, Saunders BO, Narconis RJ. Regulation and temporal sequence of surface epithelium morphogenesis in the postovulatory rabbit ovary. VII International Symposium on Morphological Sciences, Rome, Italy, July 14-20, 1988.
146. Narconis RJ, Saunders BO, Nicosia SV. Influence of a corpus luteum extract on rabbit ovarian mesothelial cell density and surface morphology. Scanning Electron Microscopy 1988 Meeting, St. Louis, MO, May 1-6, 1988.
147. Setrakian S, Saunders B, Nicosia SV. Separation of peritoneal mesothelial cells by unit gravity sedimentation. 10th Annual Cancer Research Seminar, Gainesville, FL, March 7, 1987, 23a.
148. Nicosia SV, Saunders BO. Corpus luteum extract stimulates the growth of ovarian surface epithelial cells. Lab Invest 54:47a, 1986.
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150. Nicosia SV, Osterholzer HO. An autoradiographic study of ovarian surface epithelium before and after ovulation. 8th Annual Cancer Research Seminar, Tampa, FL, February 16, 1985, 1a.
151. Nicosia SV. A comparative study of rabbit ovarian surface epithelium in vivo and in vitro. 3rd Annual Meeting of the Florida Society for Electron Microscopy, March 13-15, 1985, 8a.
152. Osterholzer HO, Nicosia SV. Hormonal responsiveness of ovarian surface epithelial cells. OB-GYN Armed Forces Seminar, Atlanta, GA, October 12, 1984.
153. Nicosia SV, Johnson JH, Streibel EJ. Isolation and growth characteristics of ovarian surface epithelium. 72nd Annual Meeting of the International Academy of Pathology, Atlanta, GA. Lab Invest 48:64a, 1983.
154. Nicosia SV, Streibel EJ. Evidence for complement-dependent mucous granule release in rabbit endocervical cells. 39th Annual Meeting of the American Fertility Society, San Francisco, CA. Fertil Steril 39:408a, 1983.
155. Nicosia SV, Johnson JH. Histochemistry and ultrastructure of the rabbit endocervical mucosa after intravaginal antigen administration. 39th Annual Meeting of the American Fertility Society, San Francisco, CA. Fertil Steril 39:408a, 1983.
156. Chilton BS, Nicosia SV, Lyttle CR. Evidence for estrogen regulation in the rabbit endocervix. 22nd Annual Meeting of the American Society for Cell Biology, Baltimore, J Cell Biol 95:413a, 1982.
157. Sowinski JM, Nicosia SV. Elimination of nonspecific staining during ultrastructural immunocytochemical identification of lysozyme in the human endocervix. 22nd Annual Meeting of the American Society for Cell Biology, Baltimore, MD. J Cell Biol 95:461a, 1982.
158. Nicosia SV, Streibel EJ, Mogul L. Macromolecular regulation of mucus release in isolated rabbit endocervical cells. 32nd Annual Meeting of the Tissue Culture Association, Washington, DC. In Vitro 17:205a, 1981.

159. Chilton BS, Nicosia SV, Lyttle CR. Characterization of an estrogen receptor in the tissue components of the rabbit endocervix. 63rd Annual Meeting of the Endocrine Society, Cincinnati, OH, Proceedings p. 157a, 1981.
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161. Chilton BS, Nicosia SV, Barnes H, Lyttle CR. Influence of hormonal environments on steroid receptors and glycoprotein biosynthesis in the epithelial-stromal complex of the rabbit endocervix. 21st Annual Meeting of the American Society for Cell Biology, Anaheim, CA. J Cell Biol 91:207a, 1981.
162. Chilton BS, Nicosia SV, Laufer MR. Influence of estradiol 17 β on endocervical cytodifferentiation. 13th Annual Meeting of the Society for the Study of Reproduction, Ann Arbor, MI. Biol Reprod 22(Suppl 1):99a, 1980.
163. Nicosia SV. Influence of physiologic and pathologic mammalian sera on cervical mucus release. 10th World Congress of Fertility and Sterility, Madrid, Spain, Proceedings p. 212a, 1980.
164. Nicosia SV. Urn cells: An experimental model for the study of cervical mucus secretion. 68th Annual Meeting of the International Academy of Pathology, San Francisco, CA. Lab Invest 40:39a, 1979.
165. Nicosia SV, Sowinski JM, Chilton BS, Powell R. Immunocytochemical identification of lysozyme in distinct mucous cells of the rabbit endocervix. 37th Annual Meeting of the Electron Microscopy Society of America, San Antonio, TX, 1979.
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171. Nicosia SV, Batta SK, Sowinski JM. Influence of gonadotropins and ovarian steroids on in vitro follicular atresia. 7th New England Endocrine Conference, Storrs, CT, Proceedings abst. #3, 1979.

172. Nicosia SV, Wolf DP, Streibel EJ. Cervical mucus production in vitro. 34th Annual Meeting of the American Fertility Society, New Orleans, LA. Fertil Steril 29:237a, 1978.
173. Chilton BS, Nicosia SV, Sowinski JM. A unit gravity sedimentation procedure for the separation of mucus-secreting cells from disaggregated rabbit endocervix. 34th Annual Meeting of the American Fertility Society, New Orleans, LA, 1978.
174. Chilton BS, Nicosia SV, Wolf DP. A unit gravity sedimentation procedure for the separation and enrichment of rabbit endocervical cells. 18th Annual Meeting of the American Society for Cell Biology, San Antonio, TX. J Cell Biol 79:250a, 1978.
175. Wolf DP, Nicosia SV. Premature cortical granule release does not block sperm penetration of mouse eggs. 18th Annual Meeting of the American Society for Cell Biology, San Antonio, TX. J Cell Biol 79:160a, 1978.
176. Nicosia SV. Studies on urn cells of Sipunculus nudus: Effects of serum, pH and lectins on mucus secretion. 1978 General Scientific Meetings of the Marine Biological Laboratory, Woods Hole, MA. Biol Bull 155:458a, 1978.
177. Nicosia SV, Wolf DP, Mastroianni L Jr. Surface characteristics of zona-free mouse eggs before and after insemination. 9th World Congress of Fertility and Sterility, Miami Beach, FL. Fertil Steril 28:349a, 1977.
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181. Nicosia SV, Wolf DP. Mucus release in rabbit endocervical cells. 1st International Congress on Cell Biology, Boston, MA. J Cell Biol 70:128a, 1976.
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184. Nicosia SV. Cortical granule dehiscence in mouse eggs inseminated in vitro. 8th Annual Meeting of the Society for the Study of Reproduction, Fort Collins, CO. Proceedings p. 529a, 1975.
185. Nicosia SV, Inoue M, Wolf DP. An ultrastructural study of cortical granule dehiscence in mouse eggs inseminated in vitro. 21st Annual Meeting of the American Fertility Society, Los Angeles, CA. Fertil Steril 26:198a-199a, 1975.

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187. Batta SK, Nicosia SV. Effects of prostaglandin $\text{PGF}_{2\alpha}$ on progesterone and estrogen secretion by rabbit granulosa cells luteinized in tissue culture. 4th International Congress of Hormonal Steroids, Mexico City, Mexico. J Steroid Biochem 5:402a, 1974.
188. Wolf DP, Inoue M, Nicosia SV. Temporal relationship between sperm penetration, cortical granule dehiscence and zona solubility changes in mouse ova fertilized in vitro. 7th Annual Meeting of the Society for the Study of Reproduction, Ottawa, Canada. Proceedings p. 112a, 1974.
189. Nicosia SV, Batta SK. A collagenase dissection technique for harvesting of ovarian follicles in preparation for organ culture. 25th Annual Meeting of the Tissue Culture Association, Miami Beach, FL. In Vitro 9:313a, 1974.

JOHNATHAN MARK LANCASTER

CURRICULUM VITAE

Personal

Date of birth: January 4th 1968

Home Address: 15403 Fenton Place, Tampa, FL 33647
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Marital Status: Married

Family: Vanessa Lancaster, Certified Nurse Midwife,
Georgina Emily Lancaster, d.o.b. 3/22/00
Sebastian Ray Lancaster, d.o.b. 3/22/00

Visa: U.S. Permanent Resident

Education

Undergraduate	University of Wales, U.K.	1992	B.Sc. (Class 1)
Medical School	University of Wales, U.K.	1992	M.B., B.Ch.
Research Doctorate	Univ. of Wales / N.I.E.H.S., NC	1997	M.D.
Research Doctorate	Univ. of Wales / Duke University	2003	Ph.D. (pending)

Academic Career

- 1992-1993 Intern in General Surgery & Internal Medicine
University of Wales Teaching Hospitals, Cardiff, U.K.
- 1993-1994 Resident in Obstetrics and Gynaecology
University of Cambridge, U.K.
- 1994-1996 Fogarty Research Fellow
NIEHS, NIH, N.C.
- 1996-1997 Research Associate, Dept. Surgery
Duke University Medical Center.
- 1997-2000 Resident in Obstetrics and Gynecology
Duke University Medical Center
- 2000 -2003 Fellow in Gynecologic Oncology
Duke University Medical Center
- 2001-2003 Medical Director, Cervix Clinic
Duke University Medical Center
- 2003-Present Assistant Professor, Division of Gynecologic Oncology,
H. Lee Moffitt Cancer Center & Research Institute,
University of South Florida, Tampa, Florida

Certification

Educational Commission for Foreign Medical Graduates, 1995

Board Eligible, Obstetrics and Gynecology, 2000

Board Eligible, Gynecologic Oncology, 2003

Memberships

American Association for Cancer Research, 1997
Active Member

American College of Obstetrics and Gynecology, 2000
Junior Fellow

American Society of Clinical Oncology, 2002
Associate Member

Awards/Fellowships/Scholarships/Grants

Ciba-Giegy Research Scholarship, 1991	\$5,000
N.I.H. Fogarty Fellowship, 1994	\$70,000
I.N.S. Alien of Extraordinary Ability, 1996	
Bronze Sucker Award for Gynecologic Surgery, 1999	
Terry & Frances Seelinger Fellow in Cancer Award, 2000	\$4,000
AACR-AstraZeneca Scholar-in-Training Award, 2001	\$1,500
Wyeth Ayerst Educational Scholarship, 2001	\$3,000
ASCO Merit Award, 2001	\$1,500
The Ovarian Cancer Research Fund, Liz Tilberis Scholars Program Grant, 2002	\$300,000
AACR-Susan G. Komen Breast Cancer Foundation Scholar-in-Training Award, 2003	\$1,000
Jacque Liggett Fellowship Hearing the Ovarian Cancer Whisper Foundation, 2003	\$50,000
Department of Defense, National Functional Genomics Award	\$25,000

Professional Review Experience

Obstetrics and Gynecology
The Lancet
Cancer Research
Cancer
Molecular Carcinogenesis
American Journal of Obstetrics and Gynecology
Cancer Letters

Publications

1. **JM Lancaster** and JA Davies.
Carbamazepine inhibits NMDA-induced depolarizations in cortical wedges prepared from DBA/2 mice.
Experientia. 48; 1992.
2. **JM Lancaster** and JA Davies.
Desmethylinipramine potentiates NMDA responses in a mouse cortical slice preparation.
Neuroreport. 2; 1992.
3. **JM Lancaster**, A Prentice & S K Smith
Successful medical treatment of subdiaphragmatic endometriosis.
Journal of Obstetrics & Gynaecology 15:206; 1995
4. **JM Lancaster**, HA Brownlee, RW Wiseman et al.
P53 Polymorphism in Ovarian and Bladder Cancer.
The Lancet. July 15; 1995
5. R Wooster, G Bignell, **JM Lancaster**, S Swift, S Seal, J Mangion et al. Identification of the breast cancer susceptibility gene BRCA2.
Nature. 378:789-792;1995.
6. **JM Lancaster**, RW Wiseman and A Berchuck.
An Inevitable Dilemma: Prenatal Testing for Mutations in the BRCA1 Breast/Ovarian Cancer Susceptibility Gene.
Obstetrics and Gynecology 87; 306-9: 1996.
7. **JM Lancaster**, C Cochran, H Brownlee, C Evans, A Berchuck, RW Wiseman.
Detection of BRCA1 Mutations in Women With Early Onset Ovarian Cancer Using the Protein Truncation Test.
Journal of the National Cancer Institute 88; 552-554: 1996.
8. CM Phelan, **JM Lancaster**, P Tonin, C Gumbs, et al.
Mutation analysis of the BRCA2 gene in 49 site-specific breast cancer families.
Nature Genetics 13; 120-122: 1996.
9. **JM Lancaster**, R Wooster, J Mangion, C Phelan, et al.
BRCA2 mutations in primary breast and ovarian cancers.
Nature Genetics 13; 238-240: 1996
10. IJ Jacobs and **JM Lancaster**
The Molecular Genetics of Sporadic and Familial Epithelial Ovarian Cancer.
International Journal of Gynecological Cancer 6; 337-355: 1996.

11. JC Cooper, AM Sharkey, J McLaren, **JM Lancaster**, DS Charnock-Jones, SK Smith. Vascular Endothelial Growth Factor Antibody on the effect of pre-eclampsia and normal pregnancy sera on cultured endothelial cells.
British Journal of Obstetrics and Gynaecology 103 (8); 849-850: 1996
12. A Berchuck, F Cirisano, **JM Lancaster**, JM Schildkraut, RW Wiseman, et al. Role of BRCA1 Mutation Screening in the Management of Familial Ovarian Cancer.
American Journal of Obstetrics and Gynecology 175; 738-746: 1996.
13. **JM Lancaster**, HA Brownlee, D Bell, A Berchuck, RW Wiseman, J Taylor. Microsomal Epoxide Hydrolase Polymorphism as a Risk Factor for Ovarian Cancer.
Molecular Carcinogenesis 17; 160-163: 1996.
14. **JM Lancaster**, ME Carney, PA Futreal. BRCA1 and 2 - A Genetic Link to Familial Breast and Ovarian Cancer.
Medscape's Women's Health. 2(2), 1997.
15. **JM Lancaster**, A Futreal, A Berchuck and RW Wiseman. The Dideoxy Fingerprinting Assay for BRCA1 Mutation Analysis.
Molecular Carcinogenesis. 19:176-179, 1997.
16. C Li, C Larsson, A Futreal, **JM Lancaster**, C Phelan, et al. Identification of two distinct deleted regions on chromosome 13q in prostate cancer.
Oncogene. 16:481-487, 1998.
17. **JM Lancaster**, A Berchuck, M Carney, RW Wiseman and JA Taylor. Progesterone Receptor Gene Polymorphism and Risk for Breast and Ovarian Cancer.
British Journal of Cancer. 78 (2), 1998
18. **JM Lancaster**, ME Carney, J Gray, J Myring, et al. BRCA1 and BRCA2 in breast cancer families from Wales: moderate mutation frequency and two recurrent mutations in BRCA1.
British Journal of Cancer, 78(11) 1417-2, 1998
19. ME Carney, GL Maxwell, **JM Lancaster**, C Gumbs, et al. Aberrant splicing of the TSG101 Tumor Suppressor Gene in Human Breast and Ovarian Cancers.
J Soc Gynecol Invest. 5:281-285, 1998.
20. A Berchuck, KA Heron, ME Carney, **JM Lancaster**, et al. Frequency of Germline and Somatic BRCA1 Mutations in Ovarian Cancer.
Clinical Cancer Research. 4,(10); 2433-7, 1998.
21. **JM Lancaster** and A Berchuck. Genetic Testing for Breast and Ovarian Cancer: Issues and Dilemmas (parts 1 and 2).
Oncology.com. 10/20/00 and 10/23/00, 2000.

22. **JM Lancaster**, JI Risinger, ME Carney, JC Barrett, A Berchuck. Mutational analysis of the PTEN gene in human uterine sarcomas.
American Journal of Obstetrics and Gynecology, 184(6) 1051-1053, 2001
23. AA Alvarez, AR Lambers, **JM Lancaster**, GL Maxwell, C Gumbs, A Berchuck, PA Futreal. Allele loss on chromosome 1p36 in epithelial ovarian cancers.
Gynecologic Oncology. 82: 94-98: 2001
24. ME Carney; **JM Lancaster**, C Ford, A Tsodikov, CL Wiggins. A population-based study of patterns of care for ovarian cancer: who is seen by a gynecologic oncologist and who is not?
Gynecologic Oncology, 84(1) 36-42, 2002
25. D Dixon, GP Flake, AB Moore, H He, CD Swartz, JK Haseman, JI Risinger, **JM Lancaster**, A Berchuck, JC Barret, S Robboy. Cell proliferation and apoptosis in human leiomyomas and myometria.
Virchows Arch, 441(1):53-62, 2002
26. **JM Lancaster**, R Sayer, C Blanchette, B Calingaert, R Whitaker, J Schildkraut, J Marks, A Berchuck. High expression of tumor necrosis factor-related apoptosis-inducing ligand is associated with favorable ovarian cancer survival.
Clinical Cancer Research, 9; 762-766, 2003
27. **JM Lancaster**, B Calingaert, R Wenham, JR Marks, PG Moorman, S Halabi, R Bentley, A Berchuck, JM Schildkraut. No Association Between Ovarian Cancer Risk and Progesterone Receptor Gene Polymorphism (PROGINS) in Population-Based, Case-Control Study in North America.
Cancer Epidemiology, Biomarkers & Prevention. (In Press), 2003
28. RM Wenham, **JM Lancaster** & A Berchuck.
Molecular Aspects of Ovarian Cancer.
Best Practice & Research, Clinical Obstetrics and Gynecology, 16(4) 483-497, 2002
29. LJ Havrilesky, A Alvarez, RA Sayer, **JM Lancaster**, JT Soper, A Berchuck, DL Clarke-Pearson, GC Rodriguez & ME Carney. Weekly Low-Dose Carboplatin and Paclitaxel in the Treatment of Recurrent Ovarian and Peritoneal Cancer.
Gynecologic Oncology, 88(1) 51-57, 2003
30. R Wenham, B Calingaert, S Ali, K McClean, R Whitaker, R Bentley, **JM Lancaster**, J Schildkraut, J Marks, A Berchuck. Matrix Metalloproteinase-1 Gene Promoter Polymorphism and Risk of Ovarian Cancer.
J Soc Gyn Invest (In Press) 2003
31. **JM Lancaster**, HK Dressman, RS Whitaker, L Havrilesky, J Gray, JR Marks, JR Nevins, A Berchuck. Gene Expression Patterns That Characterize Advanced Stage Serous Ovarian Cancers. Journal of the Society for Gynecologic Investigation (In Press) 2003

Chapters

32. **JM Lancaster** and RW Wiseman. Recent Advances in the Molecular Genetics of Familial Breast and Ovarian Cancer.
Chapter in "Etiology of Breast and Gynecological Cancers" (Wiley-Liss). 1996
33. A Berchuck, M Carney, **JM Lancaster**, J Marks, A Futreal. Familial Breast-ovarian cancer syndromes: BRCA1 & 2.
Chapter in "Clinical Obstetrics and Gynecology" (Lippincott-Raven). 1998
34. DL Clarke-Pearson, AA Alvarez, L Havrilesky, **JM Lancaster**. Preoperative Evaluation and Postoperative Management.
Chapter in "Novak's Gynecology" (Williams & Wilkins), 13th Edition, JS Berek (ed), (In Press)
35. **JM Lancaster**, L Havrilesky, A Berchuck. The genetic etiology of sporadic ovarian cancer.
Chapter in "Diagnosis and Management of Ovarian Disorders" (Igaku-Shoin) 2nd Ed, Altcheck & Deligdisch (eds), (In Press)

Lectures/Oral Presentations

"Inherited Breast and Ovarian Cancer", NIEHS Student Outreach Program, NC	9/1994
"The Genetics of Ovarian Cancer", University of North Carolina at Pembroke, NC	5/1995
"The Genetics of Breast and Ovarian Cancer", NIEHS Summer Student Program, NC	8/1995
Detection of BRCA1 Mutations in Women With Early Onset Ovarian Cancer Using the Protein Truncation Test. The Society of Gynecologic Oncologists (Plenary) Annual Meeting, New Orleans, LA	2/1996
BRCA1 Mutations Detection in Women With Early Onset Ovarian Cancer. Plenary presentation. British Gynaecological Cancer Society (Plenary) Annual Meeting, Aberdeen, Scotland	3/1996
"Cervical Cytologic Screening Techniques", Grand Rounds, Duke University Medical Center	6/2000
"The Molecular Genetics of Breast and Ovarian Cancer", Howard Hughes Pre-College Program, Duke University Medical Center	9/2000
"Cervical Cytology Screening Techniques", Invited Speaker, Cape Fear Valley Medical Center	2/2001
"The Molecular Genetics of Familial Breast and Ovarian Cancer" Residents Seminar Series, Duke University Medical Center	3/2001
"Evaluation of the Pap smear", Invited Speaker, Heritage Hospital, Tarboro, NC	5/2001
"Hereditary Breast and Ovarian Cancer", Invited Speaker, Cape Fear Valley Medical Center	7/2001
"Hereditary Breast and Ovarian Cancer", Invited Speaker, Northeast Medical Center, Cabarras	9/2001

<p>“Cervical Dysplasia and Carcinoma”, Medical Student Core Lecture Series, Duke University Medical Center</p>	<p>10/2001</p>
<p>“Evaluation of the Pap smear”, Invited Speaker, Harnett County Medical Society, NC</p>	<p>2/2002</p>
<p>Increased expression of tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) is associated with prolonged survival in patients with ovarian cancer. The Society of Gynecologic Oncologists (Plenary) Annual Meeting, Miami, FL</p>	<p>3/2002</p>
<p>“Ectopic Pregnancy: An update”, Sampson County Regional Medical Center, Clinton, NC</p>	<p>3/2002</p>
<p>“Pap Smear Interpretation”, Maria Parham Regional Medical Center, Henderson, NC</p>	<p>3/2002</p>
<p>“Genetic Etiology of Ovarian Cancer”, Grand Rounds, Kapi’olani Medical Center, University of Hawaii, HI</p>	<p>5/2002</p>
<p>“Genetic Etiology of Ovarian Cancer”, Guest Speaker, Cancer Research Center, University of Hawaii, HI</p>	<p>5/2002</p>
<p>“Molecular Genetic Etiology of Epithelial Ovarian Cancer”, Grand Rounds, Riverside Regional Medical Center, Newport News, VA</p>	<p>7/2002</p>
<p>“Molecular Genetic Analysis of Epithelial Ovarian Cancer”, Grand Rounds, Stanford University, Stanford, CA</p>	<p>11/2002</p>
<p>“Molecular Genetic Etiology of Epithelial Ovarian Cancer”, Guest Speaker, Moffitt Cancer Center, University of South Florida, Tampa, FL</p>	<p>11/2002</p>

Selected Abstracts

1. Expression array analysis of advanced ovarian cancer can distinguish between short and long-term survivors. Poster presentation.
The Society of Gynecologic Oncologists (SGO) Annual Meeting, Nashville, TN, March 2001.
2. Evaluation of Three Cervical Cytology Screening Techniques for use with Liquid-Based Preparations: Adequacy of the Endocervical Component. Poster presentation.
The Society of Gynecologic Oncologists (SGO) Annual Meeting, Nashville, TN, March 2001.
3. Evaluation of three cervical cytology screening techniques for use with liquid-based preparations: Adequacy of the endocervical component. Poster presentation.
The American Society of Clinical Oncology (ASCO) Annual Meeting, San Francisco, CA, April 2001.
4. Expression of Insulin-like growth factor binding protein 2 (IGFBP2) is associated with poor outcome in advanced serous ovarian cancers. Poster presentation.
The Society of Gynecologic Oncologists (SGO) Annual Meeting, Miami, FL, March 2002.
5. High expression of Insulin-like growth factor binding protein 2 (IGFBP2) is associated with poor outcome in advanced stage serous ovarian cancers.
American Association of Cancer Research (AACR) Annual Meeting, San Francisco, CA, April 2002
6. "High expression of Insulin-like Growth Factor-2 (IGF2) is associated with decreased survival in advanced stage serous ovarian cancers"
American Association of Cancer Research (AACR) Annual Meeting
Washington DC, July 2003

Film Festivals

Intraoperative radiation therapy for treatment of recurrent cervical cancer.

A Alvarez, **JM Lancaster**, D Clarke-Pearson.

The Society of Gynecologic Oncologists Annual Meeting, Nashville, TN, March 2001.

Trans-peritoneal resection of an ischio-rectal mass.

L Havrilesky, M Ridgway, **JM Lancaster**, D Clarke-Pearson.

The Society of Gynecologic Oncologists Annual Meeting, Miami, FL, March 2002.