CURRICULUM VITA

NAME: Donald A. Cohen, Ph.D.

DATE & PLACE OF BIRTH: May 19, 1950
Cincinnati, Ohio

MARITAL STATUS: Married: Rosemarie Wiesmann Cohen
4 children: Melissa, Andrew, Kristine and Stefanie

HOME ADDRESS & TELEPHONE#: 3241 Wellington Lane
Lexington, KY 40503
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OFFICE ADDRESS & TELEPHONE#: Albert B. Chandler Medical Center
College of Medicine
Department of Microbiology, Immunology
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EDUCATION:

Bachelor of Science in Biological Sciences from the University of Cincinnati, OH, 1972.

Doctor of Philosophy in Microbiology from the University of Cincinnati, OH, 1979. Thesis title: "Enhanced resistance to ectromelia virus infection in nonspecifically activated macrophages."

POSTDOCTORAL TRAINING, OR SPECIAL EXPERIENCE:

Research fellow in cancer immunology for the Virginia Commonwealth University Medical College of Virginia in Microbiology/Immunology from 1979 through February, 1982.

ACADEMIC APPOINTMENTS:

Professor	Department of Microbiology, Immunology and Molecular Genetics College of Medicine University of Kentucky Lexington, Kentucky	July, 1997-present

ACADEMIC APPOINTMENTS: (cont.)

Associate Professor	Department of Microbiology and Immunology College of Medicine University of Kentucky Lexington, Kentucky	July, 1990-July, 1997
Assistant Professor	Department of Microbiology and Immunology College of Medicine	1986 - 1990

	University of Kentucky Lexington, Kentucky	
Joint Appointment	Graduate Center for Toxicology University of Kentucky Lexington, Kentucky	1985-present
Member	Lucille Parker Markey Cancer Center University of Kentucky College of Medicine Lexington, Kentucky	1985-present
Research Asst Professor	Department of Microbiology and Immunology College of Medicine University of Kentucky Lexington, Kentucky	1982-April '86
Postdoctoral Fellow	Department of Microbiology Virginia Commonwealth Univ. Medical College of Virginia Richmond, Virginia	1979-1982

ADMINISTRATIVE APPOINTMENTS:

Scientific Director	Flow Cytometry & Cell Sorting Facility University of Kentucky College of Medicine Lexington, Kentucky	1996 - present

MEMBERSHIP - SCIENTIFIC, HONORARY AND PROFESSIONAL SOCIETIES:

American Association of Immunologists
Society for Leukocyte Biology
International Cytokine Society

SPECIAL AWARDS, FELLOWSHIPS, AND OTHER HONORS:

Albert J. Ryan Foundation Fellowship Award, 1976-1980
NIH Postdoctoral Training Grant in Infectious Diseases, 10-1-79 to 7-31-81
NIH Postdoctoral Training Grant in Immunology, 8-1-81 to 5-30-82
University of Kentucky Faculty Grant for outstanding performance. - 1988-1990.
Univ. of Kentucky Graduate Faculty, Full Membership, 1990

COMMITTEE ASSIGNMENTS:

Departmental Committees:
Microbial Pathogenesis Faculty Search Committee, 1994
Graduate Center for Toxicology Curriculum Committee, 1990-present
Graduate Center for Toxicology Training Grant Advisory Committee, 1990-present.

Graduate Center for Toxicology Faculty Search Committee, 1990
Microbiology and Immunology Seminar Committee, 1983, 1990
Molecular Immunologist Search Committee, 1989.
High School Student Summer Fellowship Committee, 1987 - present.
Graduate Center for Toxicology, Committee for Student Evaluation, 1997.
Virologist Faculty Search Committee, 1998.
Microbiology Education Progress and Promotion Committee. 2004 - 2006

College Committees:
Search Committee for Chief of Pulmonary and Critical Care Medicine, 1996.
Medical Student Advisory Committee, 1995-96
Search Committee for Environmental Physiology, College of Arts and Sciences, 1996.
Markey Cancer Center Hybridoma Facility Oversight Committee -1990-91.
College of Medicine Research Committee, 1989 - 1992.
6 Year Review Committee for the Department of Ophthalmology, 1993.
Review Committee for Evaluation of the Director of the Graduate Center for Toxicology, 1992
College of Medicine Faculty Council, 1999-2000.
Faculty Search Committee for Endowed Chairs in the College of Agriculture, 2001.
LCME Self Study - Clinical Sciences Committee, 2001-2002.
College of Medicine Curriculum Committee, Quality Assurance Subcommittee, 2006.
Curriculum Development Committee (Foundations of Disease and Therapeutics, MD 810), 2012
Markey Cancer Center Program and Shared Resource Leaders Committee, 2013 – present
Markey Cancer Center Scientific Advisory Panel, 2013 - present

University Committees:
Academic Area Advisory Committee (Biological Sciences), ad hoc alternate, 1999.
Veterans Administration Research and Development Committee, 1994-96.
Search Committee for Director of Laboratory Animal Resources - 1995
General Clinical Research Center Advisory Committee,
University of Kentucky Medical Center, 1990-1992.
Institutional Animal Care and Use Committee (IACUC), Medical Center
Subcommittee, 1989 - 1992.
University Major Research Instrumentation Review Committee, 1992.

National and Regional Committees:
National Science Foundation Graduate Research Fellowships Program, Review Panel, 2010.
National Defense Science and Engineering Fellowship Review Committee, 1996-97, 2001-2010.
Kentucky Tobacco and Health Research Institute Technical Advisory Committee, 1994-96.
Chairman - Society for Leukocyte Biology Membership Committee, 1995.
Office of Naval Research Graduate Fellowship Review Panel, 1994-1995.
Council member - Society for Leukocyte Biology, 1992-1994
Council member - Autumn Immunology Conference, 1992 - 1994.

EDITORIAL EXPERIENCE:

Journal of Leukocyte Biology
Journal of Immunology
Journal of Clinical Investigation
Clinical Immunology and Immunopathology
Alcoholism: Clinical and Experimental Research
Life Sciences
Infection and Immunity
Cancer Research
Experimental Lung Research
Journal of Nutrition
Progress in Neuroendocrine Immunology
Journal of Endocrinology

American Journal of Pathology
Cellular Immunology
American Journal of Respiratory & Critical Care Medicine
American Journal of Respiratory Cell & Molecular Biology
Genesis: The Journal of Genetics and Development
Journal of Immunological Methods

GRANT REVIEW EXPERIENCE:

NIH, ZRG1 IMM-N (03) M Special Emphasis Panel, P01 review - 2013
NIH, ZRG1 IMM-N (03) M Special Emphasis Panel, P01 review - 2012
NIH/NCRR, ZRR1 RI-B (01) Special Emphasis Panel COBRE I - 2011
NSF Graduate Research Fellowship Program Review Panel - 2010.
National Defense Science and Engineering Graduate Fellowship Review Panel – 1999-2010.
NIH/NCRR, ZRG1 IMST-C 30 Special Emphasis Panel - 2009
NIH/NHLBI, Lung Cellular, Molecular, and Immunobiology Study Section - Ad hoc reviewer - 2006
NIH/NHLBI, Heart, Lung and Blood Project Review Panel, January, 2005
NIH/NIAID, Program Project Review Panel – Ad hoc reviewer – July, 2004
NIH/NIAID, Program Project Review Panel – Ad hoc reviewer – April, 2004
NIH/NHLBI, Lung Cellular, Molecular, and Immunobiology Study Section - Ad hoc reviewer - 2004
NIH/NHLBI (Special Emphasis Panel, Respiratory and Applied Physiology) - Member - 2000
U.S. Army Research and Material Command Peer Review Panel C - Member - 1999.
National Institutes of Health, NHLBI (Special Emphasis Panel on AIDS) - Member - 1999
Dept. of Veterans Affairs (Immunology Review Board) - Ad hoc reviewer - 1999
National Institutes of Health, NIAAA (ALTX-1) - Ad hoc reviewer - 1998
National Institutes of Health, NIA - Site visit team - 1998
National Institutes of Health, NIEHS (ALTX-4) - Ad hoc reviewer - 1998
National Institutes of Health, NIAAA - Ad hoc reviewer - 1997
National Institutes of Health, NHLBI (Special Emphasis Panel on AIDS) - Member - 1997
National Institutes of Health, NIAAA (ACLB-1) - Visiting Member - 1995
National Institutes of Health (AIDS and Related Research Study Section C) - Visiting Member - 1994
National Institutes of Health (NIAID) - Ad hoc reviewer -1988
National Science Foundation - Ad hoc reviewer - 1989
Tobacco and Health Research Institute - Ad hoc reviewer - 1984
Research and Development Committee for the Veterans Administration Medical Center (Lexington) - Ad hoc - 1987-2000
Tobacco and Health Research Institute Advisory Committee, 1994-96
Lucille Markey Cancer Ctr., Lexington, KY - Ad hoc reviewer - 1987- 90
Tobacco and Health Research Institute - Ad hoc reviewer - 1984
Assoc. for Medical Research - Ad hoc reviewer - 1990 - 94

INVITED PRESENTATIONS:

(National Presentations - Invited)
1. An in vitro model for antigen presentation by cloned Ia^+ adherent tumor cell lines. The Wistar Institute, Philadelphia, PA, December 18, 1981.

2. Role of cell surface molecules in initial T cell:antigen-presenting cell binding and subsequent T cell activation. Reticuloendothelial Society International Symposium on Antigen Presenting Cells: Diversity, Differentiation and Regulation. Richmond, VA, March 26-29, 1987.

3. Function of accessory adhesion molecules in lymphocyte interactions. Department of Pharmacology, University of Kentucky. October 15, 1987.

4. Role of accessory adhesion molecules in T cell:B cell interactions. Department of Microbiology, Miami University, Oxford, OH. November 4, 1987.

5. Immune defects in a mouse model of AIDS - Does ethanol affect disease progression? Nutrition and Immunology Symposium, Nutritional Sciences Department, Univ. of Kentucky, April 22, 1992.

6. Mechanism of anergy in $CD4^+$ T cells during murine AIDS. Second International Conference on Alcohol, Drugs of Abuse, and Immunomodulation (AIDS). Tucson, AZ, Sept. 10-12, 1992.

7. Differential regulation of the human IL-2 enhancer in murine Th1 and Th2 helper T cells. Syntex, Inc, Palo Alto, CA, Nov. 6, 1992.

8. Stress-induced alterations in a murine model of AIDS. 8th Annual Symposium on Mechanisms of Immunotoxicity, Virginia Beach, VA, Sept. 1-3, 1993.

9. Characterization of a murine model of AIDS. Kentucky State University, Frankfort, KY, Feb. 18, 1994.

10. AIDS: How a virus destroys the immune system. Thomas More College, Ft. Thomas, KY, Nov. 15, 1995.

11. Immunologic basis of lung disease in murine AIDS. Univ. of South Alabama, Coll. of Medicine, Dept. Of Pharmacology, Mobile, AL; Dec. 16, 1997.

12. Nitric oxide in the development of graft-vs.-host disease. Virginia Commonwealth Univ., Coll. of Medicine, Dept. of Microbiology and Immunology. Apr. 24, 2003.

13. Role of IL-10 in homeostatic immune regulation in the lungs. Virginia Commonwealth Univ., Coll. of Medicine, Dept. of Microbiology and Immunology. Apr. 25, 2003.

14. Inhibition of IL-10 receptor function in alveolar macrophages by TLR ligands. National Heart Lung and Blood Institute, NIH, Bethesda, MD. March 29, 2004.

15. IL-10 as a Homeostatic Immunoregulator in the Lung. University of Rochester, Dept. of Environmental Health. February, 2005.

16. A Mouse, A Macrophage and Murder. East Virginia University, Dept. of Microbiology. April, 2005.

(International Presentations - Invited)

1. Analysis of the requirements for Ia and IL-1 in sodium periodate-induced mitogenesis. 10th International Reticuloendothelial Society Congress, Ito, Japan, September 7, 1984.

2. T cell subset specific regulation of the human IL-2 enhancer in murine Th1/Th2 T cells. 8th International Congress of Immunology, Budapest, Hungary, August 23-28, 1992. (oral presentation of abstract)

3. Abnormal lung cytokine synthesis and lung morphology in murine AIDS-associated interstitial pneumonitis. Cytokines and Adhesion Molecules in Lung Inflammation. Paris, France. June 22-23, 1995. (oral presentation of abstract).

4. Inducible IL-10 receptor dysfunction: a new role for Toll-like receptors in the lung. Meeting of the International Cytokine Society. Dublin Ireland, Sept. 20-24, 2003. (Oral Presentation of abstract).

(Public Presentations - Invited)

1. Can pigs be made to fly? - Trials and tribulations of organ transplantation. Univ. of Kentucky Mini-Medical School. Lexington, KY. October 17, 1995.
Madisonville, KY. May 7, 1996.
Lexington, KY. October 8, 1996.
Lexington, KY. October 30, 1997.

Lexington, KY. November 12, 1998.
Lexington, KY. October 26, 1999.

2. Can pigs be made to fly? - Trials and tribulations of organ transplantation. Elderhostel of Lexington. March 18, 1998.

GRADUATE AND POSTDOCTORAL TRAINEES:

Degrees Awarded:

Kelly P. Kearse, Ph.D., 1988
Thesis title: "Role of cell surface glycoproteins in T cell:antigen-presenting cell recognition."
Current position: High school science teacher; Knoxville Catholic High School, Knoxville, TN

David R. Cassatt, Ph.D., 1988
Thesis title: "Artificial T cell:B cell conjugation: a unique approach to analyze weak cell-cell interactions."
Current position: Program Officer; National Institute of Allergy and Infectious Diseases; Radiation/Nuclear Countermeasures Program. Bethesda, Maryland

Joel Guthridge, Ph.D., 1992
Thesis title: "Role of B cell surface sialic acids and endogenous sialidase in the regulation of B cell:T cell interactions."
Current position: Director, Informatics, Evolutionary Genomics, Aurora, CO

Parvaneh Espandiari, M.S., 1992
Thesis title: "Regulation of the pulmonary antibody response after intratracheal immunization."
Current position: Toxicologist. Food & Drug Administration, Bethesda, Maryland.

Kimberly Davis, Ph.D., 1993
Thesis title: "Characterization and regulation of autoreactive T cells."
Current position: clinical immunology lab director,

David Pflugh, Ph.D., 1995
Thesis title: "The role of interleukin-7 in syngeneic graft-vs-host disease."
Current position: Patent Attorney. GTC Law Group. Westwood, Massachusetts

Jian Zhu, Ph.D., 1995
Thesis title: "Molecular mechanisms of pulmonary immunosuppression and fibrosis by bleomycin."
Current position: Private practice physician; Internal medicine, Ashland, KY

Yingshi Guo, M.S., 1995
Scientific report title: “Multiple drug resistance gene expression and function in lymphocytes of the normal immune system.”

Jackie Carey, M.S. 1998
Non-dissertation.
Current position: women’s health physician, University of Kentucky, College of Medicine, Lexington, KY.

Gopi Shankar, Ph.D., 1999
Thesis title: “Idiopathic pneumonia syndrome following bone marrow transplantation in mice.”
Current position: Senior Director. Janssen Research & Development, LLC (Johnson & Johnson)

Huiqing Hao, Ph.D., 2000
Thesis title: “Immunoregulatory aspects of bleomycin-induced pulmonary fibrosis.”
Current position: Staff scientist, Food and Drug Administration, Center for Drug Evaluation and Research, Rockville, MD

David Hongo, Ph.D., 2004
Thesis Title: “Role of nitric oxide in graft-vs-host disease-associated idiopathic pneumonia syndrome”.
Current position: Research Staff. Stanford University, School of Medicine, Stanford, CA

Surjya Bhattacharyya, M.S., 2005

Thesis title: "IL-10 receptor dysfunction by TLR ligands in mouse peritoneal macrophages."
Current position: Research Coordinator at NYU Hospital for Joint Diseases, New York, NY.

Purnima Jose, Ph.D., 2006
Thesis title: "Inhibition of IL-10 receptor signaling in lung dendritic cells by TLR4 ligands."
Current position: seeking postdoctoral position at the Univ. of Alabama.

Joe Qualls, Ph.D., 2007
Thesis title: "Suppression of experimental murine colitis by intestinal mononuclear phagocytes"
Current position: Assistant professor, Univ. of Cincinnati, College of Medicine, Dept. of Pediatrics.

Colleen O'Conner, Ph.D., 2008
Thesis title: "Interleukin-10-mediated changes in lung carcinoma cells: possible effect on tumor growth in vitro"
Current position: Postdoctoral fellowship, M.D. Anderson Cancer Center, Houston, TX

Halide Tuna, Ph.D., 2013
Thesis title: "Regulation of dendritic cell mediated responses by ppar gamma - its role in mucosal immunity"
Current position: Postdoctoral fellowship, Univ. of Kentucky, College of Pharmacy

Ahmed Latif, M.D., MPH, Ph.D.
Thesis title: "Role of the immune system and bioactive lipids in trafficking bone marrow-derived stem cells in patients with ischemic heart disease"
Current position: Assistant professor, Univ. of Kentucky, College of Medicine, Division of Cardiology.

Current Graduate Students:

Laura Fenton (Microbiology/Immunology)

Current Postdoctoral Trainee/Research Associates:

Previous Postdoctoral Trainees:	**Current Position**
Shirish Barve, Ph.D.	Professor Department of Medicine Hepatology and Gastroenterology Division University of Louisville Medical Center Louisville, KY
Elizabeth Fitzpatrick, Ph.D.	Assistant Professor Dept. of Molecular Sciences Univ of Tennessee Health Sciences Center Memphis, TN
Helene Lake-Bullock, Ph.D., J.D.	Scientific Patent Attorney Office of Research Integrity University of Kentucky Lexington, KY
Huiqing Hao, Ph.D.	Staff Scientific Food and Drug Administration Center for Drug Evaluation and Research Silver Spring MD
Stefan Fernandez, Ph.D.	Colonel Department of Virus Diseases Walter Reed Army Institute of Research

	Silver Spring, MD
Sandra Hale Burnett, Ph.D.	Assistant Professor Brigham Young University Dept. of Microbiology & Molecular Biology Provo, Utah
Edward Kerschen, Ph.D.	Postdoctoral Fellow Blood Research Institute Blood Center of Wisconsin Milwaukee, WI
Li Zheng, M.D., Ph.D.	Medical Technologist UK Health Care Medical Laboratory Services Lexington, KY

Graduate Advisory Committee Member for the following students:

Name	Department	Graduation Year
Ph.D. Committees:		
Lori Jones	Microbiology/Immunology	1988
Laura Smith	Microbiology/Immunology	1984
Jim Simpson	Microbiology/Immunology	resigned
Michael Olcott	Biochemistry	1994
Randall Dew	Animal Sciences	1989
Michael Hayak	Animal Sciences	1992
Cheryl Doll	Pharmacology/Toxicology	1992
Bruce Bowdy	Pharmacology/Toxicology	1989
Shewan Aziz	Pharmacology/Toxicology	1992
Barbara Sauer Reisner	Microbiology/Immunology	1992
Sarah Gibb	Pharmacology/Toxicology	1993
Amy Wilson	Microbiology/Immunology	1994
Ronald Honchel	Toxicology	1992
Kevin Harrod	Pharmacology/Toxicology	1994
Brenda Cronise	Pharmacology/Toxicology	1994
Kam-Fai Tse	Toxicology	1995
Steve Brown	Microbiology/Immunology	1996
Nithianandan Selliah	Microbiology/Immunology	1996
Mishelle Rogers	Pharmacology/Toxicology	1996
Cynthia Hartsfield	Pharmacology/Toxicology	1996
Sandra Peterson	Animal Sciences	1999
Julie Schimmelpfennig	College of Pharmacy	resigned
Kenneth Fields	Microbiology/Immunology	1999
Federick Holtsberg	Biology	1998
William Rees	Toxicology	1997
Omar Harb	Microbiology/Immunology	1999
Aysequi Erdem	Microbiology/Immunology	1999
Robert Holland	Animal Sciences	2000
Chandrasekar Ventkataraman	Microbiology/Immunology	1998
Radika Devalaraja	Toxicology	1997
Antoush Barve	Toxicology	1999
Shu-Mei Lin	Nutritional Sciences	2000
Dale Bixby	Pharmaceutical Sciences	1999
Melina Jones	Microbiology/Immunology	2002
David Peyton	Microbiology/Immunology	2000

Lisa Peterson	Microbiology/Immunology	2000
Brent Lee	Microbiology/Immunology	2004
Yue Zhang	Pharmaceutical Sciences	1999
Sujata Kelkar	Toxicology	2002
Amber Savells-Arb	Microbiology/Immunology	resigned
Tracey Schneeman	Microbiology/Immunology	2004
Sarah Goes	Microbiology/Immunology	resigned
Murali Gururajan	Toxicology	2006
Josh Hood	Microbiology/Immunology	2004
Radu Tudor Ciornei	Microbiology/Immunology	2007
Trivikram Dasu	Microbiology/Immunology	2006
Aaron Scott Borders	Physiology	2007
Phillip Owens	Toxicology	2008
Arwa Abu Kweek	Microbiology/Immunology	2009
Krasimira Rozenova	Physiology	2010
Jacqueline.Perez	Toxicology	2010
Lisa Palmer	Microbiology/Immunology	2010
Siva Kumar Gandhapudi	Microbiology/Immunology	2010
Zhan Ye	Microbiology/Immunology	2010
Angela Martin	Microbiology/Immunology	2008
JoAnne Tucker	Microbiology/Immunology	2010
Deborah Even	Veterinary Science	2011
Yun Young Go	Veterinary Science	2011
Vishal Sindhava	Microbiology/Immunology	2010
Mary Catherine Kermicle	Microbiology/Immunology	2012
Eri Saijo	Microbiology/Immunology	2012
Lingshuang Sun	Veterinary Science	2011
Eric Rogier	Microbiology/Immunology	2012
Chong Liu	Veterinary Science	2013
Sanjay Sarkar	Veterinary Sciences	current
Marie Gehman	Microbiology/Immunology	current
Heather O'Daniel	Microbiology/Immunology	current
Shay Mitchell	Nursing	current
Karine Nyiawung	Microbiology/Immunology	current
Grant Jones	Microbiology/Immunology	current

M.S. Committees:

Joan Strawson	Toxicology	1986
William Waller	Microbiology/Immunology	1989
Wisman Tjarunda	Microbiology/Immunology	1988
Waiman Sulaiman	Microbiology/Immunology	1988
Evelyn Wang	Toxicology	1990
Karen Pirc	Toxicology	1993
Holly McCoy	Veterinary Sciences	1995
Lisette Richardson, DDS	Dentistry	1995
Nuralain Khuda	Microbiology/Immunology	1995
Melissa Hines	Microbiology/Immunology	2002
Amy Rogosky	Microbiology/Immunology	2010
Emily Rubinson	Veterinary Science	current

Advisor for Undergraduate/Staff Individuals:

Suzanne Alexander	Undergrad. Summer Research	1989
Donald Pruden	Sterling-Winthrop Technician	1986
Greg Elmore	Undergrad. Independent Research	1992
Wendy Gardner	Undergrad. Independent Research	1993

Steven Stadler	High School Summer Research Fellow	1994, 1995
Matthew Ashmann	High School Summer Research Fellow	1994
Robert Chilaeuni	High School Research Fellow	1994, 1995
Charles Purvis, M.S.	Howard Hughes Summer Intern	1997
Monique Carter	High School Summer Research Fellow	1999
Melanie Hatfield	Undergrad. Independent Research	2000
Daniel O'Quinn	Undergrad. Independent Research	2001
Luis Velez	University of Puerto Rico Exchange Prgm	2002
Kimberlee Zilbilka	High School Summer Research Fellow	2003
Jacob Sither	Center College	2003
Leia Wedlund	Math Science Technology Magnet Program	2013

TEACHING ACTIVITIES:

Years	**Course #**	**Course title**	**Hrs of instruction**	**# students (per course)**
2013 – present	MD 810	Foundations of Infection, Disease and Therapeutics (Co-director of course)	13	155
1997-2013	MI 821	Immunology, Infection and Disease (Content coordinator)	20-24	155
1994-1996	MI 821	Immunology, Infection and Disease (Content coordinator)	38	92
1986-94	BIO 595	Immunobiology Laboratory (Course director)	65	25
1984-93	BIO 494G	Immunobiology	5-6	90
1993-2004	BIO 494G	Immunobiology	2	90
1983-1994	MI 685	Advanced Immunology	5-6	15
1995 - 1998	MI 685	Advanced Immunology	9	30
1983- 1997	MI 707	Special topics in immunology (Faculty participant)	6	12
1984-present	BIO 772	Seminars in Microbiology (Advisor)	1-2 seminars/yr	
1987-94	MI 811	Immunobiology for med students	5-6	85
1989-2010	TOX 680	Advanced Toxicology	3	6
1992	BIO 395	Indep. Study in Microbiol. Student: Mr. Greg Elmore	8 hrs/week	--
1994	AGR	Research in Biotechnology Student: Wendy Gardner	10 hours/week	--

CURRICULUUM DEVELOPMEMT:

BIO595 Immunobiology Laboratory Upon becoming course director, my initial responsibility was to completely rewrite the laboratory manual for this course. The text was expanded from 60 pages to 101 pages to include an extensive number of diagrams, tables and figures appropriate for each lab exercise. The course outline was redeveloped to follow temporally the topics in the Immunobiology lecture course (BIO 494G). Additional lab exercises were developed including an exercise on cell culture techniques, analysis of tumor cell killing by macrophages and analysis of immunodeficiency in mice during an AIDS-like virus infection.

MI 822 Infection, Immunity and Disease As co-director of this course, my responsibility was coordinate the development of the immunology component in a new block system medical student course, which included participation by immunologists, bacteriologists, virologists, pathologists and clinicians in several departments. Course format for the immunology component included the development, coordination or participation in 38 lectures (24 lectures by this co-director), 2 small group sessions, 3 clinical correlations, 2 problem-based learning exercises and 3 computer-assisted learning sessions.

BIBLIOGRAPHY (Articles):

1. Morris, R.E., Ciraolo, G.M., Cohen, D.A. and Bubel, H.C.: In situ fixation of cultured mouse peritoneal exudate cells. In Vitro 16:136, 1980.

2. Cohen, D.A. and Kaplan, A.M.: Adherent Ia+ murine tumor lines with characteristics of dendritic cells: I. Morphology, surface phenotype and induction of syngeneic mixed lymphocyte reactions. J. Exp. Med. 154:1801-1818, 1981.

3. Cohen, D.A., Smith, L.A. and Kaplan, A.M.: Characteristics of an Ia+ antigen-presenting tumor cell line. In: Norman, S.J. and Sorken, E. (Eds.), Macrophages and Natural Killer Cells. Plenum Press, New York, 1982, pp. 549-556.

4. Cohen, D.A. and H.C. Bubel. Induction of resistance to ectromelia virus infection by Corynebacterium parvum in murine peritoneal macrophages. J. Reticuloendothelial Soc. 33:35-46, l983.

5. Cohen, D.A. and A.M. Kaplan. Adherent Ia^+ murine cell lines with characteristics of dendritic cells. II. Characteristics of I region-restricted antigen presentation. Cellular Immunol. 80:349-362, 1983.

6. Cohen, D.A., RE. Morris and H.C. Bubel.: Abortive ectromelia virus infection in peritoneal macrophages activated by Corynebacterium parvum. J. Leukocyte Biology 35:179-192, 1984.

7. Sopori, M.L., D.A. Cohen and Alan M. Kaplan.: Antigen presentation in the rat: Role of a non-adherent, nonphagocytic, W3/13, OX-6 positive cell in the presentation of antigen to primed T lymphocytes. Cellular Immunol. 87:177-191, 1984.

8. Sopori, M.L., D.A. Cohen, T.L. Roszman, S. Cherian and A.M. Kaplan.: T-lymphocyte heterogeneity in the rat: separation of distinct rat T-lymphocyte populations which respond in syngeneic and allogeneic mixed lymphocyte reactions. Cellular Immunol. 87:295-303, 1984.

9. Smith, L.A., D.A. Cohen and A.M. Kaplan. The use of $IL\text{-}1^+$ and $IL\text{-}1^-$ cell lines to dissociate signals involved in the induction of CTL. Scand. J. Immunol.23:3-14, 1986.

10. Smith, L.A., D.A. Cohen, L.B. Lachman and A.M. Kaplan. Sodium periodate-induced T cell mitogenesis: An analysis of the requirement for Ia and IL-1. J. Immunol.135:1137-1144, 1985.

11. Cohen, D.A., Smith, L.A., Subbarao, B., Snow, E.C., and Kaplan, A.M.: Dissociation of the requirements for Ia and IL-l during antigen presentation and oxidative mitogenesis. In: Macrophage Biology, Alan Liss, New York, 1985, pp. 171-191.

12. Sopori, M.L., Cohen, D.A., Cherian, S. and Kaplan, A.M.: Antigen presentation in the rat. II. An Ia^+ radiosensitive T cell can present antigen to primed Ia^- T cells. J. Immunol. 134:1369-1373, 1985.

13. Cohen, D.A., Stotelmyer, N.L. and Kaplan, A.M.: Induction of functional Fc receptors in P388 leukemia cells: requirement for multiple differentiation signals. Experimental Cell Research. 157:511-519, 1985.

14. Lukacs, K., Cohen, D.A. and Kaplan, A.M.: HLA-Dr unrestricted accessory cell function in human neutrophils. Clinical Immunol. and Immunopathol 38:344-349, 1986.

15. McClain, C.J., Antonow, D.R., Cohen, D.A. and Shedlofsky, S.I.: Zinc Metabolism in Alcoholic Liver disease. Alcoholism Clinical and Experimental Research. 10:582-589, 1986.

16. Sammon, P.J., Wronski, T., Fleuck, J. and Cohen, D.A.: Humoral hypercalcemia of malignancy: evidence for interleukin-1 as a bone resorbing factor released by human transitional carcinoma cells. In: Calcium Regulation and Bone Metabolism - Basic and Clinical Aspects. Vol. 9. (Cohn, D.V., Martin, T.J. and Meunier P.J., eds.), Elservier Scientific Press, Amsterdam, pp.383-390, 1987.

17. McClain, C.J., Cohen, D.A., Dinarello, C.A., Cannon, J.G. and A.M. Kaplan: Increased serum interleukin 1 levels in alcoholic hepatitis. Life Sciences 39:1479-1485, 1986.

18. Goldblum, SE, Cohen, DA, Gillespie, MN and McClain, CJ. Interleukin 1-induced granulocytopenia and pulmonary leukostasis in rabbits. J. Appl. Physiol. 62:122-128, 1987

19. Goldblum, SE, Cohen, DA, Jay, M and McClain, CJ. Interleukin 1-induced depression of iron and zinc: role of granulocytes and lactoferrin. J. Physiol. 252:E27-E32, 1987.

20. Goldblum, SE, Jay, M, Yoneda, K, Cohen, DA, McClain, CJ and Gillespie, MN. Monokine-induced acute lung injury in rabbits. J. Appl. Physiol. 63:2093-2100. 1987.

21. McClain, CJ, Cohen, DA, Ott, L, Dinarello, CA and Young, B. Ventricular fluid interleukin 1 activity in head injured patients. J. Lab. and Clin. Med. 110:48-54.1987.

22. Gillespie, MN, Goldblum, SE, Cohen, DA and McClain, CJ. Interleukin 1 bioactivity in the lungs of rats with monocrotaline-induced pulmonary hypertension. Proc. Soc. Exp. Biol. 187:26-32,1988.

23. Kearse, KP, Cassatt, DR, Kaplan, AM and Cohen, DA. Characterization of cell surface molecules involved in the recognition of antigen-presenting cells by cloned helper T cell lines. Cellular Immunology 115:334-351, 1988.

24. Shedlofsky, S.I., Swim, A.T., Robinson, U.M., Gallichio, V.S., Cohen, D.A. and McClain, C.J. Interleukin-1 depresses cytochrome P450 levels and activities in mice. Life Sciences 40:2331-2336, 1987.

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GRANT SUPPORT

ACTIVE:

1R03CA176777-01A1 Cohen, Donald (PI) 02/20/2014 – 12/31/2016
NIH
"Modulation of Colitis-Associated Cancer by Cyclosporine A".
The objective of this grant is to investigate the role of the calcineurin inhibitor, cyclosporine A (CsA), on the development of an intestinal graft-vs-host disease-like syndrome following syngeneic or autologous bone marrow transplantation (BMT).
Role in project: Principal-Investigator

Crohn's and Colitis Foundation of America Cohen, Donald (PI) 10/01/2011 - 12/31/2014
"Resident intestinal dendritic cells - negative regulators of colitis". The objective of this application is to evaluate the role of dendritic cell (DC)-expressed PPARγ in intestinal inflammation.
Role in project: Principal-Investigator

P30 CA177558 Evers, BM (PI) 07/08/13 - 06/30/18
NIH
"University of Kentucky Markey Cancer Center – Cancer Center Support Grant"
Goals: To support the ongoing research infrastructure, research programs, shared resources, developmental funds, and administration of the Markey Cancer Center to ensure the development of more effective approaches to cancer prevention, diagnosis, and therapy.
Role: Director of Flow Cytometry and Cell Sorting Shared Resource Facility

Pain Away LLC Cohen, Donald (PI) 10/01/2013 – 12/30/2014
"Evaluation of anti-tumor activity of TTO in tumor-bearing mice"
Role in project: Principal-Investigator

1R21AI095811-01A1 McGillis, Joseph (PI) 08/23/12 – 07/31/14
NIH
"Genetic Regulation of Macrophage Polarization". The objective of this grant is to determine critical genes in the developmental transition of macrophages into either the M1 or M2 functional phenotypes.
Role in project: Co-Investigator (5% effort)

NAPROGENIX2013 KSTC-184-512-13-160 Swanson, Hollie (PI) 06/01/13 - 06/30/14
Kentucky Science and Technology Corporation
"Novel Pharmacotherapies for Alcoholism". The objective of this grant is to evaluate the effects of apple peel-derived methoxylated quercetin derivatives on murine models of inflammatory bowel disease.
Role in project: Co-Investigator (5% effort)

PENDING:

S10 Shared Instrumentation Grant
NIH (PI: Cohen, DA)
"Cell Sorter Upgrade for Flow Cytometry Service Facility."
The goal of this application is to replace an old flow cytometer in the core facility with a next generation spectral flow cytometer
Role: Principal Investigator

PREVIOUS FUNDING:

1. "Antigen presentation by Ia^+ cell lines which possess characteristics of dendritic cells." American Cancer Society #IN-105F. April 22, 1981 to May 1, 1982. Total award: $3000. (Principal investigator).

2. "Analysis of interleukin-1 levels in arthritic rats." Sterling-Winthrop Research Institute. 1985. Total award: $2500 (Principal Investigator).

3. "Macrophage-T cell interactions in the initiation of the immune response." Univ. of Kentucky College of Medicine PSP Research Fund. July 1, 1982 to Sept. 30, 1983. Total award: $10,400. (Principal Investigator).

4. "Hypercalcemia of malignancy." Univ. of Kentucky College of Dentistry. Jan 1, 1985 to December 31, 1985. Total award: $11,500. (Co-Investigator).

5. "Further studies of cancer secreted bone resorption factors." United Way of the Bluegrass Dread Disease Fund. January 1, 1986 to December 31, 1986. Total award: $27,000. (Co-Investigator).

6. "Characterization of tumor secreted bone resorption factors and their relationship to interleukin-1." Markey Cancer Center Research Fund. Nov. 1, 1986 to Oct. 31, 1987. Total award: $7500. (Co-investigator).

7. "Antigen processing by cloned antigen presenting cells." (NIH) R23-CA43488. April 1,1986 to June 30,1989. Total award: $107,145. (Principal investigator)

8. "Mechanism of T cell:B cell conjugate formation" American Cancer Society #IN-47619. July 1, 1988 to June 30, 1989. Total Award: $6731. (Principal Investigator).

9 "Ia-reactive T Cell Clones: Recognition and Function." (NCI) RO1 AI22312. December 1, 1985 to November 30, 1989. Total award: $408,170. (Co-investigator).

10. "Mechanism of T cell:B cell conjugate formation: T cell stimulation by resting B cells." Univ. of Kentucky Medical Center Research Grant. December 1, 1988 to November 30, 1989. Total award: $9,848. (Principal Investigator).

11. "Effect of monokines on hepatic drug and toxin metabolism." Veterans Administration. 596-500-50-059. November 1, 1987 to October 31, 1989. Total award: $163,273. (Collaborator)

12. "Metabolic response to head injury: Role for interleukin-1." (NIH) R01NS22 712-0141. July 1, 1986 to June 30, 1989. Total award: $396,794. (Co-investigator).

13. "Mechanism of T cell:B cell conjugate formation." Biomedical Research Support Grant #RR05374. July 1, 1988 to June 30, 1989. Total award: $7,475. (Principal Investigator).

14. "Role of interleukin 1 as an autocrine growth factor in tumor cell growth." Univ. of Kentucky Medical Center Research Fund. March 1, 1986 to June 30, 1986. Total award: $4945. (Principal investigator).

15. "The role of interleukin 1 in alcoholic liver disease." Alcoholic Beverage Medical Research Foundation. May 1, 1985 to April 30, 1986. Total award: $15,000. (Principal investigator).

16 "T cell interactions with cloned Ia^+ accessory cells." (NIH) RO1-CA34052-01. December 1, 1982 to November 30, 1985. Total award: $247,599. (Co-investigator).

17. "Research training in cancer etiology and treatment--tumor immunology and immunology. 1T32 CA 09509-03. July l, l985 - June 30, l990. Total Award $416,611, Current year $91,000. (Co-investigator).

18. "T-cell interactions with cloned Ia^+ accessory cells". (NIH) R01-CA34052. Total Award $567,296, Current year $74,378. May 1, 1987-April 30, 1992. (Co-investigator).

19. "Immunological Sciences - Cell Harvesting System." UK Med. Ctr. Research Fund. 01/02/91 to June 30, 1991. Total award: $8990. (Principal Investigator).

20. "Characterization of a Murine Model of AIDS Pulmonary Hypertension." UK Med. Ctr. Research Fund. Nov. 15, 1990 to June 30, 1991. Total award: $10,000. (Principal Investigator).

21. "Alcohol and AIDS: A Murine Model." (NIAAA) RO1 AA08237. July 1, 1989 to June 30, 1994. Total award: $460,424; (Principal Investigator).

22. "A murine model to evaluate smoking as a cofactor in AIDS." Tobacco and Health Research Institute. July 1, 1993 to June 30, 1994. Total award: $33,778. (Principal investigator).

23. "Psychoneuroimmune modulation of a murine model of AIDS." NIH/NIMH. R01-MH49042. July 01, 1994 to June 30, 1998. Total award: $284,385. Year 02: $94,746. (Principal Investigator).

24. "Mechanisms of brain injury and its systemic sequelae." NIH/NINDS. P01-NS31220. Subproject: "Cytokine Core Laboratory" Apr. 1, 1994 to Mar. 31, 1999. Total award: $239,826; Year 02: $49,994 27

25. "Mechanisms of interstitial pneumonitis in murine AIDS". NIH/NHLBI. R01-HL53246.
July 1, 1994 to June 30, 1999. Total award: $651,839. (Principal Investigator).

26. "T cells and cytokines in pulmonary fibrosis." R01 HL/AI 58058
12/01/97-11/30/01 Total award: $762, 471 (Co-Investigator).

27. "Interstitial pneumonia after bone marrow transplantation." R01 HL57399
09/17/1999 - 07/31/2004. Total award: $991,595. (Principal Investigator).

28. "IL-10 receptor function in lung inflammation." R01 HL69459. NIH/NHLBI. Sept. 1, 2001 to Aug. 31, 2005. Total award: $900.000. (Principal Investigator).

29. "Deviation of Anti-Tumor Immunity via IL-10 Production in Non-Small Cell Carcinoma". Agency: The Kentucky Lung Cancer Research Program. July 1, 2003 to June 30, 2006. Total award: $275,000. (Principal Investigator).

30. "Experimental colitis: Protective role of intestinal macrophages". Crohn's & Colitis Foundation. Total award: $200,000. (Principal Investigator)

31. Kentucky Lung Cancer Research Program — Bryson (PI) — 07/01/06 – 06/30/08
Allogeneic Cell Therapy of Lung
Role in project: Co-Investigator — Total award: $150,000.

32. Danone Group, Inc. — Cohen (PI) — 07/01/07 - 06/30/08
Modulation of human immune responses by nutritional probiotics.
Role in project: Principal Investigator — Total award: $385,000

33. Kentucky Lung Cancer Research Program — Kaplan, Alan (PI) — 07/01/06 – 06/30/08
"Hypoxia-Induced, Macrophage-Mediated Immunotherapy of Lung Cancer".
Role in project: Co-PI — Total award: $150,000.

34. Crohn's & Colitis Foundation — Cohen (PI) — 1/2/05 – 12/31/07
"Experimental colitis: Protective role of intestinal macrophages".
Role in project: Principal Investigator — Total award: $200,000

35. Crohn's & Colitis Foundation — Bondada (PI) — 07/01/08 – 06/30/10
"CD5-mediated regulation of natural Treg function in experimental colitis".
Role in project: Co-investigator

36. Kentucky Lung Cancer Research Program — McGillis (PI) — 07/01/08 – 06/30/10
"Genetic Regulatory Network Control of Tumoricidal and Tumor Promoting Macrophage Phenotypes".
Role in project: Co-investigator — Total award: $150,000.

37. S10 RR026827-01 — Cohen, Donald (PI) — 04/01/2011-03/31/2012
"Cell Sorter Upgrade for Flow Cytometry Service Facility". The purpose of this application is to purchase a replacement cell sorter with integrated biocontainment for the university flow cytometry core facility.
Role in project: Principal-Investigator

38. 1R01AI067869-01A1 — Straley, Sue (PI) — 03/16/07- 02/28/13
NIH
"YopM and protective innate defenses against plaque." The objective of this grant is to characterize the interactions of Yersinia pestis YopM protein with macrophages and dendritic cells and the biological outcome that these interactions have on immune responses against this infection.
Role in project: Co-Investigator (15% effort)