

Curriculum Vitae

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(Hon. Doctor of Medicine, Hon. Doctor of Science)
Professor of Pharmacology and Internal Medicine
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Molecular Immunopharmacology and Drug Discovery

<http://sackler.tufts.edu/Faculty-and-Research/Faculty-Profiles/Theoharis-Theoharides-Profile>

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**Clinical Pharmacologist, Massachusetts
Drug Formulary Commission (1986-2016)**

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Personal Information

Date of Birth:	February 11, 1950	Nationality:	USA, Greek
Place of Birth:	Thessaloniki, Greece	Permanent Residency:	USA since 8/3/79
Marital Status:	Divorced		
Children:	Niove, BA (Tufts '10), MA (Columbia Teachers College '14) Konstantinos, BS (Case Western Reserve '12), Intl MA Sports Mang (Johan Cruyff Inst Barcelona, Spain '14)		

Education

1968	Diploma	Anatolia College	Classics <i>with Honors</i>
1972	Bachelor of Arts (jointly in two fields)	Yale University	Biology and History of Science & Medicine, <i>Cum laude</i>
1975	Master of Science	Yale University	Neuroimmunology
1975	Master of Philosophy	Yale University	Immunopharmacology
1978	Doctor of Philosophy	Yale University	Pharmacology
1983	Doctor of Medicine	Yale University	Medicine
1999	Certificate	Tufts University Fletcher School of Law & Diplomacy	Global Leadership and Management
Deferred	Master of Public Administration	Harvard Kennedy School of Government	Biomedical Health Policy

Other Training

1983-84	Associate	Allergy and Clinical Immunology, Dept. Internal Medicine, Yale Un.
1986-91	House Staff	Internal Medicine, New England Med. Center, Boston, MA
1991-93	Associate	Allergy, New England Medical Center, Boston, MA

Academic Appointments

1968-72	Assistant in Research	Department of Biology, Yale University, New Haven, CT
1973-78	Assistant in Research	Department of Pharmacology, Yale University, New Haven, CT
1978-83	Research Associate	Faculty of Clinical Immunology, Department of Internal Medicine, Yale University School of Medicine, New Haven, CT
1981	Visiting Professor	Department of Experimental Pharmacology, Aristotle University School of Medicine, Thessaloniki, Greece
1983-88	Assistant Professor	Biochemistry and Pharmacology, Tufts University School of Medicine
1983-85	Co-Director	Medical Pharmacology, Tufts Univ. School of Medicine
1985-88	Assistant Professor	Psychiatry (Clinical Pharmacology), Tufts University
1985-91	Director	Medical Pharmacology, Tufts University School of Medicine
1989-94	Associate Professor	Pharmacology, Tufts University (tenured 11/2/91)
1989-	Associate Professor	Biochemistry and Psychiatry, Tufts University, Boston, MA
1995-	Professor	Pharmacology and Internal Medicine (Allergy), Tufts University
2002-	Professor	Professor of Biochemistry, Tufts University
2006	Visiting Professor	Allergy Section, Attikon Hospital, Athens Univ. Med. School, Greece
2006-13	Special Advisor	Allergy Clinical Research Center, Allergy Section, Attikon Hospital, Athens Univ. Med. School, Athens, Greece

Awards and Honors

- 1971 **Connecticut Commission for Undergraduate Research Award**
1971 **Yale College Dean's Research Award**
1972 **Yale College Cum Laude & Divisional Honors** for joint Bachelor of Arts
1972 **Yale University Cuyler Award** "for outstanding Yale College Graduates"
1975-77 **Advisory Committee to the Dean**, Graduate School, Yale University
1979 **Academic Award**, Hellenic Medical Society of New York
1980 **Travel Award**, American Society for Cell Biology
1980 **Yale University Winternitz Prize** "for the best work in Pathology"
1981,82 **Research Fellowship**, Intl. Institute of Cellular and Molecular Pathology, Brussels
1982 **Volunteer Award**, Veterans Administration Medical Center, West Haven, CT
1983 **Medical Award**, Hellenic Medical Society of New York
1983 **Chairman - Immunopharmacology**, 9th International Congress of Pharmacology, London
1984 **Travel Award**, American Society for Pharmacology and Experimental Therapeutics
1986 **Chairman - Neuroimmunology**, 2nd World Conference of Inflammation, Monte Carlo
1986 **Distinguished Service Citation** for faculty excellence, Tufts University
1987 **Special Faculty Recognition Award**, Tufts University School of Medicine
1987 **Honorary Member**, Alpha Omega Alpha Honor Medical Society
1988 **Special Faculty Recognition Award**, Tufts University School of Medicine
1989 **Chairman - Neuroimmune Modulation**, 3rd World Conf. on Inflammation, Monte Carlo
1989 **Citation for Excellence in Teaching**, Tufts University School of Medicine
1990 **Citation for Excellence in Teaching**, Tufts University School of Medicine
1991 **Advisory Committee**, 4th World Conference on Inflammation, Geneva
1991 **Citation for Excellence in Teaching**, Tufts University School of Medicine
1991 **Interstitial Cystitis Association Recognition Award**
1992 **Citation for Excellence in Teaching**, Tufts University School of Medicine
1993 **Advisory Committee**, 5th World Conference on Inflammation, Geneva
1993 **Citation for Excellence in Teaching**, Tufts University School of Medicine
1993 **Medical Awareness and Patient Support Award**, Interstitial Cystitis Association
1994 **Chairman, Inflammatory Mechanisms**, 6th Intl. Conference on Immunopharm., Prague
1994 **Citation for Excellence in Teaching**, Tufts University School of Medicine
1994 **Great Cross**, Greek Orthodox Diocese of Boston for humanitarian health care
1995 **Advisory Committee**, 6th World Conference on Inflammation, Geneva
1995 **Chairman**, International Committee to Upgrade Medical Education in Greece
1996 **Citation for Excellence in Teaching**, Tufts University School of Medicine
1997 **Advisory Committee**, 7th World Conference on Inflammation, Geneva
1997-00 **Supreme Scientific Health Council to Secretary of Health**, Hellenic Republic
1998 **Community Service Award** for humanitarian healthcare, Mayor T. Menino, Boston
1999-02 **Supreme Healthcare Board**, Social Welfare Organization, Ministry of Labor and Human Resources, Hellenic Republic
1999 **Oliver Smith Award**, Recognizing Excellence, Compassion and Service, New Engl. Med. Center
1999 **Certificate in Global Leadership and Management**, The Fletcher School of Law and Diplomacy, Tufts University
2000 **Archon of the Ecumenical Patriarchate** of Constantinople, Orthodox Christian Church (Istanbul) for humanitarian healthcare
2001 **Plenary Speaker**, National Minority Research Symposium, Cancun, Mexico
2002 **Dr. George Papanicolaou Gold Medal** for contributions in humanism and medicine
2003 **J.F. Kennedy Fellow**, Harvard University, J.F. Kennedy School of Government
2003-08 **National Public Health Council**, Secretary of Health, Hellenic Republic
2006 **Science and Medicine Award**, Federation HASNE, Boston, MA
2006 **Hygeia Award**, New England Hellenic Medical and Dental Society, Boston, MA
2007- **Fellow**, European Academy of Allergology and Clinical Immunology
2007- **Fellow**, American Academy of Allergy, Asthma and Immunology
2013 **Inductee**, Rare Diseases Hall of Fame
2010 **Honorary Doctor of Medicine**, Athens University (Greece), conferred on January 25, 2011
2014 **Honorary Doctor of Science**, Hellenic American U (conferred Nov. 11, 2014)

Executive Health Experience and fund raising

1. *Clinical Pharmacologist*, Massachusetts Drug Formulary Commission (1985-2012).
2. Member, *Board of Directors, Institute of Pharmaceutical Research and Technology (IFET)* and *Special Advisor* for the establishment of the *Laboratory for Drug Bioequivalence* (1994-1999).
3. *Chairman, International Committee to upgrade BioMedical Education* in Greece, Hellenic Ministries of Education and Health (1995).
4. Member, *Supreme Scientific Advisory Health Council*, Hellenic Ministry of Health (1997-2001).
5. Member, *Supreme HealthCare Board*, Institute of Social Welfare (IKA), Hellenic Ministry of Labor and Social Insurance (1999-2002).
6. *Consultant* for the establishment of graduate biomedical studies, Jeddah University, Saudi Arabia (2001-02)
7. Member, *National Public Health Council*, Hellenic Ministry of Health (2003-2008).
8. *Scientific Advisor for the establishment of the Allergy Clinical Research Center* at Attikon Hospital, Athens University, Greece (2005-2012).
9. Visiting Professor at Athens University Medical School (2005, 2007).
10. Member, *Committee for Research Evaluation*, Italian Ministry of Universities and Research (2005).
11. Continuously funded by NIH since 1986.
12. Received over \$5 million from private donors.
13. Helped Tufts raise over \$20 million from private donors.

Pharmaceutical Industry Experience

1984-88	Consultant, <i>Hoechst Pharmaceuticals</i> , Frankfurt, Germany
1988-2003	Consultant, <i>Kos Pharmaceuticals</i> , Miami, FL.
1990-98	Consultant, <i>Muro Pharmaceuticals</i> , Tewksbury, MA
1994-99.1	Consultant, <i>Galenica</i> , Athens, Greece
2011-15	Consultant, Thorne research (ID)

Pharmaceutical Regulatory Experience

- 1986-2012 Clinical Pharmacologist, *Massachusetts Drug Formulary Commission*
- 1994-97 Special Advisor, *Hellenic National Drug Organization*, Athens, Greece
- 1994-00 Member, Board of Directors, *Institute of Pharmaceutical Research and Technology*, Athens, Greece
- 1998-08 Member, *Supreme Special Scientific Health Council*, Ministry of Health, Hellenic Republic
- 1999-01 Member, *Supreme Healthcare Board*, Institute of Social Welfare, Ministry of Labor and Human Resources, Hellenic Republic

Corporate Business Experience

- 1986- President and CEO, *Theta Biomedical Consulting and Development Co., Inc.* (Brookline, MA)
- 1999-2004 Scientific Advisor International Pain Center, Hygeia Hospital (Athens, Greece)
- 2001- Scientific Director, Algonot, LLC. (Sarasota, FL)
- 2000-03 Executive Committee, Board of Trustees, Hellenic College (Brookline, MA)
- 2003-09 Board of Directors, Brookline Education Foundation, MA
- 2003-10 Board of Overseers, Brookline Education Foundation, MA
- 2013- CEO, AutismFreeBrain.org
- 2014- CEO, Brain-Gate.org
- 2014 President, BiomedAdvice, LLC.

Certifications

- 1983 National Board of Medical Examiners, USA
1984 Hellenic Ministry of Health and Social Services, Greece
1984- License to practice medicine, Republic of Greece and European Union (#34542-566)
1986-93 License to practice medicine, Commonwealth of Massachusetts (NEMC #92-3418)

Other Appointments

- 1964-68 Instructor of Braille, Anatolia College, Thessaloniki, Greece
1974-77 Instructor of Modern Greek, Yale University, New Haven, CT

Teaching

- 1984-89 Dental Pharmacology: 3 hours and one 1-hour review
1984-92 Veterinary Pharmacology: 5 hours and one 1-hour review
1984-89 Pre-matriculation program - Pharmacology: **Director**, 12 hours (summer)
1984- National Board of Medical Examiners, Part I (NBME-I): one 7 hour review
1985-93 Medical Pharmacology: **Director**, 25 hours and five 1 hour reviews
Created a unified pharmacology course for the first time with a syllabus which became a textbook, now in its second edition.
1993- Medical Pharmacology: 5 hours and four 1 hour reviews
1993-97 Graduate Pharmacology: **Director**, 30 hours; Created the graduate program in pharmacology for the first time which was granted independent status.
1994- Pharm 218-Immunopharmacology: Advances and Failures in Drug Discovery **Director**, 20 hours
2004-09 Bio 195-Pharmacology of Multiorgan Diseases (Tufts undergraduate course). **Director**, 50 hrs

University Committee Assignments

- 1984-86 **Curriculum Planning Committees:** Tufts University School of Medicine
1985-86 **Self-study Committee on Educational Methods:** Tufts University
1984-91 **Advisor, Progressive Minority Student Alliance:** Tufts University School of Medicine
1984-91 **Advisor, Medical Student Advisory Program:** Tufts University
1987-91 **Curriculum Committee:** Tufts University School of Medicine
1987-91 **Admissions Interviewing Committee:** Tufts University School of Medicine
1987-93 **Promotions Committee:** Tufts University School of Medicine
1987-91 **Ad Hoc Advisor:** Tufts Amnesty International Chapter
1987-91 **Ad Hoc Advisor:** Tufts Literary Club
1988-91 **Chairman:** Committee for Graduate Studies in Pharmacology, Sackler School of Graduate Biomedical Sciences, Tufts University
1992- **Member:** Committee for Graduate Studies in Pharmacology, Sackler School of Graduate Biomedical Sciences, Tufts University
1992- **Phase II Curriculum Committee:** Tufts University School of Medicine
1992- **Research Development Group:** Arthritis, autoimmunity, and immunologic diseases, Tufts
1992, 98 **Accreditation Review Committee on Educational Programs**
2000-03 **Basic Sciences Promotion and Tenure Committee,** Tufts University School of Medicine
2001-04 **Program and Faculty Committee,** Tufts University School of Medicine
2009 **Strategic Implementation Committee,** Tufts University School of Medicine
2011- **Committee on Committees,** Tufts University School of Medicine
2013- **Grievance Committee,** Tufts University School of Medicine

Other Committee Assignments

- 1974-78 **Senator:** Graduate and Professional Student Senate, Yale University
1977-78 **Executive Secretary:** Graduate and Professional Student Senate, Yale University
1980 **U.S.A. Representative:** for the IXth Congress of the European Association of Poison Control Centers and the European Meeting of the International Association of Forensic Toxicologists
1983 **Peer-Reviewer:** Cellular Biology Section, National Science Foundation
1984 **Co-Chairman:** Ninth International Congress of Pharmacology, London
1985 **Founding member:** Serotonin Club, U.S.A.
1986 **Chairman:** Second Interscience World Conference on Inflammation, Monte Carlo
1986 **Organizing Committee:** Conference on Healing, N.Y.
1986- **Clinical Pharmacologist:** Drug Formulary Commission of Massachusetts
1988- **Honorary Member:** Research Board of Advisors, The American Biographical Institute
1989 **Chairman:** Third Interscience World Conference on Inflammation, Monte Carlo
1989 **Peer-Reviewer:** National Institutes of Health - NIDDKD/Urology *Ad Hoc* study section
1990 **Advisory Committee:** Fourth World Conference on Inflammation, Geneva
1993 **Advisory Committee:** Fifth World Conference on Inflammation, Geneva
1993 **Visiting Consultant:** King Abdul-Aziz University Medical School, Jeddah, SA
1993-94 **Consultant:** Committee to Upgrade the National Health Care System, Athens, Greece
1994 **Chairman:** Inflammatory mechanisms, 6th Intl. Conference on Immunopharm, Prague
1994-99 **Board of Directors:** Institute of Pharmaceutical Research and Technology: responsible for the analytical branch of the Food and Drug Administration, as well as the National Pharmaceutical Industry and National Drug Warehouse, Athens, Greece
1994-99 **Special Advisor:** in charge of establishing a bioequivalence and drug development center for the Greek National Drug Organization, Athens, Greece
1994-95 **Chairman:** International Committee to Upgrade Medical Education, Athens, Greece
1995 **Advisory Committee:** 6th World Conference on Inflammation, Geneva
1997 **Advisory Committee:** 7th World Conference on Inflammation, Geneva
1997 **Chairman:** Postgraduate Medical Education, 3rd European Medical Students' Congress, Crete, Greece
2000 **Chairman:** International Congress on Interstitial Cystitis and Related Neuroinflammatory Conditions, Crete, Greece
1997-00 **Member:** Supreme Scientific Health Council to Secretary of Health, Hellenic Republic
1999-02 **Member:** Supreme Healthcare Board, Institute of Social Services, Hellenic Republic
2000-03 **Member:** School Site Council, Devotion School, Brookline, MA
2003- **Member:** Board of Directors, the Brookline Foundation, MA
2003-08 **Member:** National Public Health Council, Secretary of Health, Hellenic Republic

Bibliographical Listings

Marquis Who's Who in America

Marquis Who's Who in the World

Marquis Who's Who in Medicine and Healthcare

Marquis Who's Who in Frontier Science and Technology

Hellenic Who's Who in Business and the Professions

Men of Achievement

Dictionary of International Biography

Editorial Reviews

- 1978- **Ad Hoc Reviewer:** *Archives of Dermatology, Biochemical Pharmacology, Behavioral and Neural Biology, Cancer Research, Clinical and Experimented Allergy, Journal of Allergy & Clinical Immunology, Journal of Cellular Physiology, Journal of Clinical Investigation, Journal of Clinical Psychopharmacology, Journal of Immunology, Journal of Neuroimmunology, Neuropharmacology, Neuroscience, New England Journal of Medicine, Proceedings of the Society for Experimental Biology and Medicine, Trends Immunology, Urology, Journal of Urology.*
- 1986- **Editorial Board:** *Acta Toxicologica et Therapeutica*
- 1988- **Deputy Editor:** *International Journal of Immunopathology and Pharmacology*
- 1992- **Editorial Board:** *Hellenic Allergology & Clinical Immunology*
- 1992- **Editorial Board:** *International Journal of Tissue Reactions*
- 1993- **Deputy Editor:** *International Journal of Immunopathology and Pharmacology*
- 2001- **Editorial Board:** *Allergy and Asthma Proceedings*
- 1994- **Consultant:** *Drug Evaluations, AMA*
- 2002- **Deputy Editor:** *European Journal of Inflammation*
- 2008- **Editorial Board** *Clinical, Cosmetic and Investigational Dermatology*
- 2009- **Deputy Editor** *Journal Biological Regulatory Homeostatic Agents*
- 2009- **Editorial Board** *Expert Opinion in Pharmacotherapy*
- 2009- **Editorial Board** *Autism Insight*
- 2012- **Section Editor** *Clinical Therapeutics*
- 2012- **Deputy Editor** *International Trends in Immunity*

Grant Reviews

- 1992 NIDDK *Ad Hoc* Urology Study Section
- 2000-02 NIH Biobehavioral & Behavioral Processes-SS2
- 2001 MDCN1
- 2002 NINDS ZDK1 GRB-B (J2) Biology of Neuroendocrine Peptides
- 2001-02 NSF Division of Integrative Biology and Neuroscience
- 2002 NIDDK Reparative Medicine, Renal/Urology (SSS-M 05)
- 2002 NIDDK ZDK11 GRB-9 Urology Research Centers Special Urology Emphasis Panel

2003 VA Neurobiology Section A

2011 Italian Ministry of Universities and Research

2007 ZAI1 SV-IS1 Cellular & Inflammation Pathways

2007 NIAID Asthma & Allergic Dis Coop Res Centers

2009 DK ZDK1 GRB-6 Urology Research Centers

2009 SEP, Natl Center Minority Health & Disparities (NCMHD)

2010 Hellenic Ministry of University Review and Accreditation

2010 NIMSD ZRG1 MOSS-D12B SBIR: Dermatology, Rheumatology and Inflammation

2011 ZRG1 CFS-M (80) S-Chronic Fatigue Syndrome

2012 ZRG1 MOSS T12- Small Business: Dermatology, Rheumatology and Inflammation

2012 ZRG1 MOSS-S (04) S-Musculoskeletal, Oral & Skin Sciences

2013 ZRG1 VH-D 02M Molecular and Cellular Hematology

2014 ZRG1 MOSS-V (02) M Special Emphasis Panel

2015 ZRG1 MOSS-C (02) Skin Immunology-CHAIR

Membership to Professional Societies

1972- Hellenic Biochemical and Biophysical Society

1977- New York Academy of Sciences

1978- American Medical Association

1978- American Association of University Professors

1978- American Institute of the History of Pharmacy

1978- American Association for the Advancement of Science

1978- Society for Health and Human Values

1979- American Association for the History of Medicine

1979- American Society for Cell Biology

1980- Sigma Xi: The Scientific Research Society

1980- Society for Neuroscience

1980- International Brain Research Organization

1980- International Society of the History of Medicine

1980- American Federation for Clinical Research

1980- Connecticut Academy of Arts and Sciences

1980- American Society for Pharmacology and Experimental Therapeutics

1981- American Society for Microbiology

1981- Hellenic Society for Cancer Research

1981- Hellenic Society for Medicinal Chemistry

1981- Hellenic Society of Pharmacology

1981- American Association of Immunologists

1982- International Society for Immunopharmacology

1984-	Massachusetts Medical Society
1987-	International Association for the Study of Pain
1987-	Harvard Count way Historical Library Associates
1994-	World Stress Society
1996-	Physicians for Human Rights
2007-	European Academy of Allergology and Clinical Immunology
2007-	American Academy of Allergy, Asthma and Immunology
2008-	Royal Academy of Medicine (UK)

Office and Committee Assignments in Professional Societies

1974-79	Secretary: Association of Greeks at Yale University
1978-79	Board of Directors and Vice President for Relations with Greece, Krikos, NY
1982-83	President: Association of Greeks at Yale University
1984-85	Trustee: Anatolia College, Boston, Massachusetts
1984-86	Secretary: International Anatolia Alumni Association, Boston, MA
1984-85	Secretary: New England Hellenic Medical Society, Boston, MA
1985	Board of Directors: Hellenic Scientists Association of Boston, Boston, MA
1985-86	Vice-President: New England Hellenic Medical Society, Boston, MA
1986-87	President: New England Hellenic Medical Society, Boston, MA
1995-97	Vice-President: New England Hellenic Medical & Dental Society, Boston, MA
2000-09	Trustee, Hellenic College, Brookline, MA

Research Interests

1. Pathophysiology of mast cells in mastocytosis and in neuroimmunoendocrine disorders. Mast cells are known for their involvement in allergic reactions, but we were the first to show that they are also necessary to initiate inflammation, thus participating in inflammatory diseases that worsen by stress, such as autism, cancer, chronic fatigue syndrome, interstitial cystitis, migraine headaches, psoriasis and multiple sclerosis. We have developed *in vivo* and *in vitro* models for these diseases and we are studying neurohormonal activation of mast cells. The only plausible way to explain how mast cells can participate in so many diverse processes is their ability to secrete distinct chemicals relative for different pathophysiological settings.
2. Molecular events involved in mast cell stimulus-secretion coupling, especially with their ability to release mediators selectively without degranulation. Mast cells are typically activated by immunoglobulin E and antigen, a process that leads to an explosive release of over 20 biologically active molecules (some of which are presorted in some 500 secretory granules, while others are synthesized during activation) through a process called degranulation or exocytosis. However, we were the first to show that mast cells can also respond to non-allergic triggers and release mediators *selectively, without degranulation*. We specifically reported that the inflammatory cytokine IL-1 can induce selective release of the also inflammatory cytokine IL-6, that the stress hormone corticotropin-releasing hormone (CRH) can induce selective release of vascular endothelial growth factor (VEGF), and IL-33 augments substance P(SP)-induced VEGF release. We are currently studying the regulation of CRH receptor expression and function on human cultured mast cells and the effects of their respective activation on allergic stimulation.
3. Mast cells have the ability to superstimulate activated T cells; moreover, the mast cell mediators IL-6 and TGFbeta participate in the maturation of Th17 cells, which are increasingly implicated in autoimmune diseases such as multiple sclerosis and psoriasis. Part of this process requires cell-to-cell contact, but also TNF secretion. We are investigating how IL-33 and SP (see above) could drive mast cells to participate in Th1-type of diseases and how such interactions may be interrupted for therapeutic purposes.
4. Regulation of mast cell secretion by the mitochondrial uncoupling protein 2 (UCP2) and mitochondrial dynamics. We showed for the first time that there is an inverse relationship between UCP2 expression and mast

cell secretion. We also showed for the first time that mast cell degranulation, but not selective release of tumor necrosis factor (TNF), is associated with mitochondrial fission and relocation from perinuclear localization to cell-widespread distribution. We further showed that mitochondrial components are secreted outside the cell where they stimulate other cells, including endothelial cells, immune cells and neurons to secrete inflammatory molecules.

5. Antisecretory and antiproliferative function of the 78 kD mast cell phosphoprotein, moesin. We sequenced this protein and showed that, in its phosphorylated state, it inhibits mast cell secretion and tumor growth. We are investigating the regulation of its expression, identification of the phosphorylated sites and molecules that could increase and sustain the phosphorylated state of this protein.
6. Anti-allergic and anti-inflammatory actions of some natural polyphenolic flavonoids. We are investigating the mechanism of action of the select flavonoids luteolin and quercetin, their formulation in ways that increases their absorption, as well as their blood concentrations in order to achieve maximal effective levels. Such compounds could serve as anti-allergic, anti-inflammatory and anticancer drugs.
7. Role of neonatal mast cell activation in the pathogenesis of autism. We reported that the prevalence of autism is ten times higher (1/10 children) in patients with mastocytosis than the general population (1/100 children). What makes this finding even more impressive is that mastocytosis is a rare disease occurring in 1/4000 children and is characterized by many hypersensitive mast cells in many tissues. We also found that the neuropeptide neurotensin, which is a potent mast cell trigger, and mitochondrial DNA are significantly increased in the serum of autistic patients. We are investigating the presence of additional biomarkers in the serum of autistic patients, the effect of stress (CRH) and environmental (mercury) triggers on the action of neurotensin on mast cells, as well as the potential benefit of a unique flavonoid formulation for the treatment of autism. Two open label clinical trials have already shown that this formulation, called NeuroProtek, has substantial benefit in over 50% of autistic children in 6 months.
8. Fission and translocation of mitochondria with extracellular mitochondrial particle secretion with autocrine and paracrine actions that lead to endothelial cell, keratinocyte, mast cell and neutrophil activation. These mitochondrial components are misconstrued by the body as “innate pathogens” and lead to in the pathogenesis of inflammatory diseases, such as autism, atopic dermatitis and psoriasis.

Clinical Studies

1. Double-blind, placebo-controlled, cross-over study for the treatment of remitting-relapsing multiple sclerosis. (Principal Investigator: T.C. Theoharides, Ph.D., M.D, Co-PI: S.L. Hauser, M.D. Site: Massachusetts General Hospital, Boston, MA).
2. Double-blind, placebo-controlled, study for the treatment of interstitial cystitis. (Principal Investigator: T.C. Theoharides, Ph.D., M.D, Co-PI: G.R. Sant, M.D. Site: Clinical Research Center, New England Med. Center).
3. Double-blind, placebo-controlled, study for the prevention of migraine headaches. (Principal Investigator: T.C. Theoharides, Ph.D., M.D; co-PI: E. Spierings, M.D., Ph.D. Site: Boston, Clinical Research Center, Newton, MA-2004).
4. Single-blind, open label study of the effect of a flavonoid formulation on niacin-induced flush. (Principal Investigator: T.C. Theoharides, Ph.D., M.D., Co-I: Dimitris Kalogeromitros, Ph.D., M.D. Site: Attikon Hospital, Athens, Greece-2008).
5. Single-blind, open label study of the effect of a flavonoid formulation, CystoProtek, on interstitial cystitis. (Principal Investigator: T.C. Theoharides, Ph.D., M.D., Co-I: Grannum R. Sant, M.D. Site: Multiple throughout the USA-2008).
6. Single-blind, open label study of the effect of a flavonoid formulation on niacin-induced flush. (Principal Investigator: T.C. Theoharides, Ph.D., M.D., Co-I: Dimitris Kalogeromitros, Ph.D., M.D. Site: Attikon General Hospital, Athens, Greece-2009).
7. Open label study of biomarkers in young children with autism. (Principal Investigator: T.C. Theoharides, Ph.D., M.D., Co-Is: Dimitris Kalogeromitros, Ph.D., M.D., Konstantinos Francis, M.D. Site: Attikon General Hospital, Athens, Greece-2009).
8. Open label study of tolerability and effectiveness of NeuroProtek® in autistic children (Principal Investigator: Prof. L. Lykouras . site: Second Department of Psychiatry, Attikon Hospital Athens, Greece-2011)
9. Double-blind, placebo-controlled, cross-over study of a flavonoid formulation for the treatment of autism. (Principal Investigator: T.C. Theoharides, Ph.D., M.D, Co-PI: Isaac Melamed, M.D. Site:IMMUNOe, Centennial, CO).

Research Fellowships and Grants

- 1980 **Co-Investigator:** *Alternate pathways of tumor immunity.* American Cancer Society
(PI: P.W. Askenase, M.D.).
- 1980 **Co-Investigator:** *T-cell mediated serotonin release from mast cells.* Veterans Administration
(PI: P.W. Askenase, M.D.).
- 1981 **Co-principal Investigator:** *Mast cell and histamine involvement in immunoregulation of patients with chronic renal failure.* Veterans Administration (PI: P.W. Askenase, M.D.).
- 1982 **Collaborator:** *The immunology of cutaneous basophil hypersensitivity.* National Institutes of Health
(PI: P.W. Askenase, M.D.).
- 1983 **Collaborator:** *The role of conjugated amines in modulating cell function.* Veterans Administration
(PI: P.K. Bondy, M.D.).
- 1983 **Charlton Award:** Tufts University School of Medicine. Duration: 5/1/84 - 4/30/86. Budget: \$4,000.
- 1984 **Grasp Center Awards:** Tufts University School of Medicine / New England Medical Center.
Duration: 9/1/85 - 12/31/86. Budget: \$7,000.
- 1985 **Dean's Fund:** Tufts University School of Medicine. Duration: 9/1/85 - 8/31/90. Budget: \$85,000.
- 1985 **Principal Investigator:** *Effect of cromolyn-like drugs on leukotriene secretion.* Fisons Pharmaceuticals, England. Duration: 7/1/86 - 6/31/87. Budget: \$5,000.
- 1986 **Post-Doctoral Stipend:** Muro Pharmaceutical, Tewksbury, MA. Duration: 7/1/86 - 6/31/91.
Budget: \$109,000.
- 1987 **Principal Investigator:** *Central effects of non-opioid analgesics.* Hoechst Pharmaceuticals, Frankfurt, Germany. Duration: 1/1/87 - 12/31/90. Budget: \$240,000.
- 1987 **Charlton Award:** Tufts University School of Medicine. Duration: 5/1/87 - 4/30/88. Budget: \$5,000.
- 1988 **Principal Investigator:** *Involvement of mast cells in demyelinating processes.* Multiple Sclerosis Society, RG-1961-A-1. Duration: 10/1/87 - 9/30/90. Budget: \$118,410.
- 1987 **Principal Investigator:** *Tricyclic effects on mast cell secretion.* Muro Pharmaceutical, Tewksbury, MA. Duration: 7/1/87 - 6/30/89. Budget: \$114,758.
- 1987 **Post-Doctoral stipend:** Gerondelis Foundation, MA. Duration: 9/1/87 - 6/30/89. Budget: \$5,000.
- 1988 **Principal Investigator:** *Functional relationship between brain mast cells and neurons.*
Kos Pharmaceuticals, Miami, FL. Duration: 10/1/88 - 9/30/93.
Budget: \$1,299,400 (plus \$200,000 towards an endowed professorship in pharmacology).
- 1989 **Principal Investigator:** *Secretion of bladder mast cell mediators in interstitial cystitis.*
National Institute of Diabetes and Digestive and Kidney Diseases.
RFA #98-DK-03, Division of Kidney, Urologic and Hematologic Diseases
R01-DK-42409. Duration: 9/30/89 -9/29/92. Budget: \$630,785.

- 1992 **Principal Investigator:** *Neurohormonal and free radical activation of bladder mast cells.* National Institute of Diabetes and Digestive and Kidney Diseases. RFA #DK-9104, Division of Kidney, Urologic and Hematologic Diseases R01-DK 44816. Duration: 3/1/92-2/28/95. Budget: \$468,899.
- 1992 **Co-Principal Investigator:** *Mast cell activation in child migraine patients before and after training in self-regulation.* W.T.Grant Foundation. Duration: 4/1/92-3/31/95. Budget: \$376,168.
- 1994 **Principal Investigator:** *Functional relationship between brain mast cells and neurons.* Kos Pharmaceuticals, Miami, FL. Duration: 7/1/94 - 6/30/97. Direct costs: \$263,446. Entire budget: \$399,504.
- 1995 **Principal Investigator:** *Double blind study of hydroxyzine for the treatment of interstitial cystitis.* ICA. Duration: 6/1/95-5/30/97. Direct costs: \$44,666. Entire budget: \$49,666.
- 1997 **Principal Investigator:** *Characterization of the 78 kD mast cell phosphoprotein which inhibits mast cell secretion.* Muro Pharmaceutical, Tewksbury, MA. Duration: 4/1/97-3/31/00. Direct costs: \$533,406. Budget: \$611,791.
- 1997 **Principal Investigator:** *Effect of acute stress on dura mast cell activation and implications for migraine pathophysiology.* Kos Pharmaceuticals, Miami, FL. Duration: 7/1/97 - 6/30/99. Direct costs: \$269,265. Entire budget: \$323,118.
- 1998 **Principal Investigator:** *Effect of Elmiron on the proliferation and activation of bladder mast cells.* Alza Corporation, Mountain View, CA. Duration: 7/1/98 - 6/30/2000. Direct costs: \$58,369. Entire budget: \$75,879.
- 1999 **Principal Investigator:** *Effect of acute stress on cardiac mast cell activation.* Kos Pharmaceuticals, Miami, FL. Duration: 7/1/99 - 6/30/00. Direct costs: \$140,721. Entire budget: \$168,983.
- 1999 **Principal Investigator:** *Effect of chondroitin sulfate and hyaluronic acid on the activation of bladder mast cells.* Seikagaku Corporation, Japan. Duration: 9/1/99 - 2/28/00. Direct costs: \$50,000. Entire budget: \$50,000.
- 2000 **Principal Investigator:** *Effect of acute stress on cardiac mast cell activation.* Kos Pharmaceuticals, Miami, FL. Duration: 7/1/00 - 6/30/01. Direct costs: \$140,721. Entire budget: \$168,983.
- 2001 **Principal Investigator:** *Effect of acute stress on cardiac mast cell activation.* Kos Pharmaceuticals, Miami, FL. Duration: 7/1/01 - 6/30/02. Direct costs: \$140,721. Entire budget: \$168,983.

1 U01 DK065244-01 NIDDK (PI: Sant; Co-I: Theoharides) Interstitial cystitis clinical trials group	Duration: 7/1/98-6/30/03 Direct Cost/yr: \$140,000	10%
1 R01 NS38326 NINDS (PI: Theoharides) CRH-induced dura mast cell activation	Duration: 7/1/99-6/30/03 Direct Cost/yr: \$153,573	40%
Research Grant (PI: Theoharides) Kos Pharmaceuticals, Inc., Miami, FL Effect of stress on myocardial mast cells	Duration: 7/1/02-6/30/03 Direct Cost/yr: \$108,333	10%
Research Contract (PI: Theoharides) Kos Pharmaceuticals, Inc., Miami, FL Mechanism of niacin-induced flush	Duration: 2/1/02-1/31/03 Direct Cost/yr: \$ 72,500	10%

Research Grant (PI: Theoharides) Estee-Lauder, Inc., LI, NY Keratinocyte effect on mast cells	Duration: 5/1/01-6/30/03 Direct Cost/yr: \$ 45,000	5%
Research Grant (PI: Theoharides) Cantata Pharmaceuticals, Inc. Cambridge, MA)	Duration: 2/5/03-2/4/04 Direct Cost/yr: \$ 50,000	5%
1 U01 DK65244-01 NIDDK (PI: Sant; Co-I: Theoharides) Interstitial cystitis clinical research network	Duration: 9/1/03-2/28/04 Direct Cost/yr: \$140,000	10%
BC024430 DOD- Concept Award (PI: Theoharides) Role of mast cells in mammary gland carcinogenesis	Duration: 7/1/03– 6/30/04 Direct Cost/yr: \$75,000	10%
Research Grant (PI: Theoharides) Estee-Lauder, Inc., LI, NY Keratinocyte effect on mast cells	Duration: 7/1/03-6/30/04 Direct Cost/yr: \$ 45,000	5%
Research Grant (PI: Theoharides) TAIHO Pharmaceutical Co., Japan IPD effect on human mast cells	Duration: 10/15/03-10/15/04 Direct Cost/yr: \$ 60,000	5%
Research Grant (PI: Theoharides) TAIHO Pharmaceutical Co., Japan IPD effect on bladder inflammation in mice	Duration: 11/1/04-05/01/05 Direct Cost/yr: \$ 30,000	5%
William James Foundation (Sarasota, FL) (PI: Theoharides) Research and publication preparation	Duration: 11/1/04– 3/31/05 Direct Cost only: \$55,000	N/A
Research Grant-continuation (PI: Theoharides) TAIHO Pharmaceutical Co., Japan IPD effect on bladder inflammation	Duration: 05/01/05-10/15/05 Direct Cost: \$ 15,000	5%
Research Grant (PI: Theoharides) Nucryst Pharmaceuticals, Wakefield, MA Nanocrystalline silver on bladder inflammation	Duration: 11/1/04-6/30/05 Direct Cost: \$ 27,500	N/A
Research Grant (PI: Theoharides) Nucryst Pharmaceuticals., Wakefield, MA Nanocrystalline silver on bladder inflammation	Duration: 12/1/05-6/30/07 Direct Cost: \$ 47,500	N/A
1 R01 DK062861 (PI: Theoharides) NIDDK Acute restraint stress-induced neurogenic bladder inflammation The major goal of this grant is to investigate the role of CRH and mast cells in stress-, SP- and LPS-induced rodent bladder inflammation as it may relate to the pathogenesis of bladder pain syndrome/interstitial cystitis.	Duration: 5/1/2003-4/30/2007 Direct Cost/yr: \$175,000	
1 R21 NS055681 (PI: Theoharides) NINDS Mast cells, tricyclic antidepressants and chronic fatigue syndrome The major goal of this application is to investigate the ability of human cord blood and cord matrix-derived mast cells to be activated by corticotrophin-releasing hormone and the effect of certain antidepressants.	Duration: 9/1/2006-9/29/2008 Direct cost: \$175,000	

Research Grant-continuation (PI: Theoharides) TAIHO Pharmaceutical Co., Japan IPD effect on bladder neurogenic inflammation	Duration: 03/01/07-02/28/08 Direct Cost: \$ 80,000
Mastocytosis Society (PI: Theoharides) Skin mast cell expression of CRH receptors	Duration: 5/1/09-12/31/09 Direct cost: \$45,000
National Autism Association (PI: Theoharides) Mast cell-related biomarkers in autism	Duration: 5/1/09-12/31/09 Direct cost: \$35,000
Safe Minds (PI: Theoharides) Effect of mercury on human mast cells	Duration: 5/1/09-12/31/09
National Autism Association (PI: Theoharides) Serum biomarkers in children with autism	Duration: 5/1/10-12/31/11 Direct cost: \$30,000
Safe Minds (PI: Theoharides) Mercury and neurotensin induce mitochondrial DNA release from human mast cells and contribute to auto-immunity in autism	Duration: 12/30/10-12/29/11 Direct cost: \$75,000
Autism Research Collaborative (PI: Theoharides) Investigation of IL-9, IL-33 and TSLP in serum of autistic children	Duration: 4/19/11-12/31/11 Direct cost: \$8,500
Thorne Research (PI: Theoharides) Comparison of anti-inflammatory anti-flushing effects of six different flavonoid compounds	Duration: 6/13/11-10/31/11 Direct cost/yr: \$50,000
2 R01 AR047652-11 (PI: Theoharides) NIAMSD Stress induces skin mast cell activation and vasodilation The major goal of this grant is to investigate the role of CRH receptors in stress and CRH-induced skin vascular permeability using knockout mice and recombinant techniques, as well as in human skin biopsies from patients with urticaria, psoriasis and mastocytosis, the symptoms of which worsen by stress	Duration: 9/1/2007-3/31/2012 Direct Cost/yr: \$215,000
National Psoriasis Fnd Translational Award (PI: Theoharides) The role of the novel mTOR pathway in psoriasis and the effect of methoxyluteolin	Duration: Duration: 6/1/13-5/31/15
The Jane Botsford Johnson Foundation Research Award PI: Theoharides Activation of signaling complex mTOR in mast cells and microglia by environmental triggers increases the risk of autism and is inhibited by the flavonoid methoxyluteolin	Duration: 6/1/13-5/31/15 Direct costs : \$100,00
1R01NS071361-05 (PI: Theoharides) Brain mast cells and chronic fatigue syndrome	Duration: 07/10-6/30/15 Direct costs : \$1,100,000
National Psoriasis Foundation (PI: Theoharides) The role of the novel mTOR pathway in psoriasis and the effect of methoxyluteolin	Duration: 05/15/13 – 05/14/15 Direct costs: \$100,000
Michael S. and Katherine V. Johnson Family Fnd Serum levels of SP, CRH and IL-33 in fibromyalgia patients	Duration: 01/15/14 – 06/30/15 Direct costs: \$50,000

Patents (in chronological order-no. date=d,m,y)

Methods claims

- #5,250,529 (10/05/1993) Method of alleviating migraine headache with mast cell degranulation blocking agents.
- #5,648,350 (07/15/1997) Method of treatment of endogenous, painful gastrointestinal conditions of non-ulcerative origin.
- #5,821,259 (10/13/1998) Histamine-3 receptor agonists as therapeutic agents.
- #5,855,884 (01/05/1999) Treatment of stress-induced migraine headache with a corticotropin releasing hormone blocker.
- #5,994,357 (11/30/99) Method of treatment of interstitial cystitis.
- #6,020,305 (02/01/2000) Treatment of stress-induced skin diseases by CRH antagonists and mast cell inhibitors.
- #6,689,748 (02/10/2004) Method of treating mast cell activation-induced diseases with a proteoglycan.
- #7,759,307 (3/30/2004) A method of treating niacin-induced flush.
- #7,923,043 (4/12/2011) Method for protecting humans against superficial vasodilator flush syndrome
- #9,050,275 (06/09/15) Methods of treating autism spectrum disorders and compositions for same.
- # 13/009,282 (Allowed 5/5/15) Methods of screening for and treating autism spectrum disorders and compositions for same.
- #61/405,414 (filed 10/21/10) Extracellular mitochondria-based screening and treatment.


Composition claims

- #6,624,148 (09/23/03) Proteoglycan compositions for treatment of cardiovascular inflammatory diseases.
- #6,635,625 (10/21/03) Proteoglycan compositions for treating prostate and bladder inflammatory conditions.
- #6,641,806 (11/04/03) Proteoglycan compositions for treating arthritic inflammation conditions.
- #6,645,482 (11/11/03) Proteoglycan compositions for the treatment of arthritic inflammatory diseases.
- #6,984,667 (1/10/06) Synergistic proteoglycan compositions for treatment of inflammatory diseases.
- # 7,155,278 (10/3/06) Compositions for oral use for treatment of cardiovascular inflammatory diseases.
- #7,799,766 (9/21/10) Composition for treatment of hormone-dependent cancers.
- #7,906,153 (3/15/11) Anti-inflammatory composition for treating multiple sclerosis.
- #8,268,365 (9/18/12) Anti-inflammatory compositions for treating brain inflammation.
- #13/112,675 (Filed 5/23/11) Compositions for protecting against superficial vasodilator flush syndrome. and methods of use

Foreign patents

- EPO # 0618796 (6/5/99) Alleviating or preventing of migraine headache with mast cell degranulation blocking agents.
France, Germany (6922912.5), Ireland, Italy, Netherlands, Spain, United Kingdom
- New Zealand #246748 (13/7/00) Method for alleviating or preventing migraine headache onset with mast cell degranulation blocking agents.
- Australia #672,772 (4/4/97) Method for alleviating or preventing migraine headache onset with mast cell degranulation blocking agents.
- EPO # 0748217 (7/8/02) Compositions comprising a mast cell degranulation-blocking agents for treatment of endogenous, painful, gastrointestinal conditions of non-inflammatory, non-ulcerative origin
France, Germany (69722809.6), Greece, Ireland, Italy, Netherlands, Spain, United Kingdom
- EPO # 0618796 (11/6/03) Treatment of stress-induced skin diseases by corticotropin-releasing hormone antagonists and skin mast cell degranulation blockers.
France, Germany (69722809.6), Ireland, Italy, Spain, United Kingdom
- EPO # 1365777 (4/19/06) Proteoglycan compositions for the treatment of skin inflammatory diseases.
France, Germany, Greece, Ireland, Italy, Spain, United Kingdom
- European Application No. 09743496.3
Based on International Application No. PCT/US09/042888)
Method for protecting humans against superficial vasodilator flush syndrome.
- International Application No. PCT/US09/52577
Methods of treating autism spectrum disorders and compositions for same.

Trade marks

<u>Mark</u>	<u>Regis. No.</u>	<u>Regis. Date US</u>
ALGONOT PLUS	2,520,109	12/18/2001
ARTHROSOFT	2,660,778	12/10/2002
ARTHROSUPREME	3,169,936	11/07/2006
BRAINGAIN	3,518,791	10/21/2008
BRAIN GAIN BOOST	3,593,572	03/24/2009
CARDIOPROTEK	3,373,400	01/22/2008
CARDIONIACIN	8,5119,878	8/31/2010
CYSTOPROTEK	2,840,956	05/11/2004
FIBROSMOOTH	3,051,493	01/24/2006
FIBROPROTEK	4,002,672	7/26/2011
LET NATURE EASE YOUR PAIN	3,464,990	07/15/2008
LET NATURE HEAL YOUR HEART	3,244,349	05/22/2007
MASTOSTAT	3,383,202	02/12/2008
NEUROPROTEK	3,225,924	04/03/2007
NRG-Q	3,822,322	7/20/2010
PROSTAPROTEK	2,849,683	06/01/2004
WHERE SCIENCE AND NATURAL REMEDIES MEET	3,044,013	01/17/2006
SKINPROTEK	3,518,790	10/21/2008
THETA BIOMEDICAL CONSULTING AND DEVELOPMENT CO., INC. and design 	3,574,373	02/17/2009
GENTLEDERM	86,442,451	06/16/2015

Training of Postdoctoral Fellows

<u>Year</u>	<u>Name</u>	<u>Title</u>	<u>Present Position</u>
1979-80	Nikolaos Kokolis, MD	Post-doctoral Fellow	Professor of Biochemistry Vet School, Aristotle University, Thessaloniki, Greece
1979-80	Zaphiroula Kritsi, MD	Post-doctoral Fellow	Professor of Biology, Aristotle University, Thessaloniki, Greece
1981-83	Sandra Kraeuter-Kops, MD	Assoc. Research Scientist	Section of Trauma, Department of Surgery, Yale University School of Medicine, New Haven, CT
1984-85	Katerina Marathias, MD	Research Associate	Attending in Critical Care Medicine, Onasis Memorial Cardiac Center, Athens, Greece
1985-86	Larry G. Miller, MD	Research Fellow	Chief Science Officer, Medi Phase Venture Partners
1986-87	Zenon Protopapas, MD	Research Fellow	Attending in Radiology, St. Elizabeth's Hospital, Yale University, New Haven, CT
1986-88	A. Konstantinidou, MD	Research Fellow	Practicing Neurologist, Thessaloniki, Greece
1987	Nikos Flaris, MD	Research Fellow	Attending in Neuropathology, Hippokratio Hospital, Thessaloniki, Greece
1987-88	Vasilios Blatsios, MD	Research Fellow	Chief, Internal Medicine, 401 Military Hospital, Athens, Greece
1987-88	P. Panagiotacopoulos, MD	Research Fellow	Attending in Cardiology, Rochester University, Rochester, NY
1988-90	Harissis Vliagoftis, MD	Research Associate	Assistant Professor in Internal Medicine, Canada
1989-90	Violetta Dimitriadou, PhD	Research Associate	Chief Science Officer, Biotech Company, Ottawa, Canada
1991	Linda Mak, MD, PhD	Research Fellow	Resident in Pediatrics, Stanford University, CA
1991-92	E. Kotronis, MD	Research Fellow	Attending, Internal Medicine, 401 Military Hospital, Athens
1991-92	V. Agelakas, MD	Research Fellow	Attending, Vascular Surgery, 201 Military Athens, Greece
1989-90	Jan Trnovsky, PhD	Research Associate	Director, Molecular Biology, Gene-Trak, Framingham, MA
1991-92	Panagiotis Bakos, MD	Research Fellow	Attending in Anesthesia, Cleveland, OH

1990-92	Mihalis Alexandrakis, MD	Research Fellow	Associate Professor, Hematology-Oncology, Un. of Crete, Greece
1990-93	Mervat El-Mansoury, MD	Research Fellow	Attending in Anesthesia, Bay State, Boston, MA
1991-94	Efthymios Deliargyris, MD	Research Fellow	Invasive Cardiologist, Medical Center, Athens Greece
1991-94	Miltos Sugiultzoglou, MD	Research Fellow	Attending in Neurosurgery, Cornell Hospital, New York, NY
1990-95	J.J. Rozniecki, MD, PhD	Research Associate	Associate Professor of Neurology, Medical Academy of Lodz, Poland
1992-94	Constantinos Spanos, MD	Research Fellow	Instructor in Surgery, Aristotle University, Thessaloniki, Greece
1993-94	Nasser Hosseini, MD	Research Fellow	Instructor in Dentistry, Kaz Medical School, Jeddah, Saudi Arabia
1992-98	Xinzhu Pang, MD, MSc	Research Associate	Attending in Pathology, Walter Reed Medical Institute Washington D.C.
1993-96	Linghua Wang, MD, MSc	Research Associate	Internist, New York, NY
1996-97	Spiros Manolidis, MD, Dsc	Res Asst Professor	Assistant Professor ENT, Columbia University, NY
1994-99	Leena K. Singh, MD, PhD	Research Fellow	Practicing Endocrinologist, CA
1997-98	Apostolos Filippou, MD	Research Fellow	Instructor in Urology, University of Athens, Greece
1998-00	D. Georghe, M.D.	Research Fellow	Attending in Neurosurgery, Paris, France
1998-99	Phani Patra, PhD	Research Fellow	
1998-02	Subimal Basu, MD, PhD	Research Fellow	Bioinformatics Officer, Boston, MA
1998- 09	D. Kempuraj, PhD	Research Associate	Research Scientist I, Iowa Veterans Administration Medical Center
2001-03	Koreaki Sugimoto, MD	Research Fellow	Assistant Professor of Neurology, Osaka, Japan
2002--03	Man Huang, PhD, MD	Research Fellow	Research Associate, Eli Lilly, OH
2002-03	B. Kempuraj, MD	Research Associate	Research Associate, U Iowa

2003-05	N. Papapoulou, PhD	Research Fellow	Junior Group Leader at IMMH, U Cologne, Germany
2006-07	Vahagn Kotsinyan, MD	Research Fellow	
2007	Margaret Michaelian, MD	Research Fellow	
2008-09	Taxiarchis Kourelis, MD	Research Fellow	Resident in Medicine, U Connecticut
2008-10	Akrivi Manola, MD	Research Fellow	Resident in Medicine, U Connecticut
2009-11	Asimena Angelidou, MD	Research Fellow	Resident in Pediatrics, U Texas Southwestern Med Center, Dallas, TX
2009-11	Konstantinos-Dionysios Alyandratos, MD	Research Fellow	Resident in Medicine, U Texas Southwestern Med Center, Dallas, TX
2009-13	Shahrazad Asadi, Pharm D	Research Fellow	Pharmacist, MGH, Boston
2009-10	Zoi Magga, MS	Research Fellow	
2010-12	Nikos Sismanopoulos, MD	Research Fellow	Resident in Medicine, St. Elizabeth's MC
2010-11	Danae Delivanis, MD	Research Fellow	Resident in Medicine, U Connecticut
2010-12	Alexandra Miniati, MD	Research Fellow	Resident in Medicine, Lahey Clininc, MA
2012-13	Anna Karagkouni, MD	Research Fellow	Resident in Medicine, Jacoby Hospital, Albert Einstein College of Medicine, NY
2012-13	Michail Alevizos, MD	Research Fellow	Resident in Psychiatry, Westchester Hospital, NY
2012-	Melina Shioni, MD	Research Fellow	
2013-	Eirini Tsilioni, PhD	Research Fellow	

Collaborators

1987-	Pio Conti, Dsc	Professor	University of Chieti, Italy
2013-	Julia M. Stewart, RN	President	Clinical Personal Services, Clarkston, MI
2014-	Isaac Melamed, MD	Director	IMMUNOe, Denver, CO

Training of Graduate Students

<u>Year</u>	<u>Name</u>	<u>Degree</u>	<u>Present Position</u>
1978-79	Stewart Greissman, MD	MD, Yale Sch of Medicine	Asst. Professor of Rheumatology, Cornell Medical Center, New York
1980-82	Nikolaos Tsakalos, MD	DSc, Aristotle University Greece (deceased 1/86)	Instructor in Medicine, Aristotle University, Thessaloniki, Greece
1985-90	Mona Lambracht-Hall, BS	PhD, Tufts University	Associate Professor of Biology, Wellesley College, Wellesley, MA
1991	G. Goumenos, BPh, DDS	MS, Tufts University DSc, Athens Univ. Greece	Asst. Professor of Periodontology, Athens Univ. School of Medicine, Greece
1989-93	A. Konstantinidou, MD	DSc, Aristotle University Greece	Practicing Neurologist, Thessaloniki, Greece
1990-93	H. Vliagoftis, MD	DSc, Aristotle University Greece	Assistant Professor in Internal Medicine Canada
1992-93	Eman Haggag, MS	DSc, Cairo University	Research Scientist, National Egypt Research Foundation, Egypt
1989-95	Ivan Correia, MS, MBA	PhD, Tufts University	CEO, Biotech Company, Cambridge, MA
1994-95	Mohammed Alhelal, DDS	MSc, Tufts University	Faculty of Dentistry, Riahd University, Saudia Arabia
1994-98	Leena Singh, MD	PhD, Tufts University	Practicing Endocrinologist, CA
1998-02	Pamela Esposito, BS	PhD, Tufts U.	Researcher, Galena Pharmaceuticals, Cambridge, MA
1999-02	Man Huang, MD	PhD, Tufts U.	Research Associate, Eli Lilly, OH
1999-02	Michael Lytinas, DDS	PhD, U. Athens	Inventor, Boston, MA
1999-03	Kristiana Kandere, BS	PhD, Tufts U.	Post-doctorate Fellow, NorthWestern University, IL
2002- 03	Abdulmohsen Alrohaimi, DDS	MS, PhD Tufts U.	VP, FDA, Saudi Arabia
2002- 05	Jill Donelan, BS	PhD, Tufts U	Scientist II, Millenium Pharmaceuticals, MA
2003-05	Jing Cao, M.D.	PhD, Tufts U	Post-doctorate Fellow, Cancer Inst., NJ
2005-08	Michael Tagen, BS	PhD, Tufts U	Senior Research Investigator, Bristol-Myers Squibb, Princeton, NJ
2007-08	Virginia Karapanou, DMD.	MSc, Tufts University	Associate Professor of Endodontics, Tufts School of Dental Medicine

2008-11	Bodi Zhang, MPH	PhD, Tufts University	Strategy Consultant, Thorne Res
2009-11	Evangelos Papathanasiou, DMD	MS, Tufts University	Asst. Prof. Periodontologist, Tufts University, MA
2008-13	Zuyi Weng, BA	PhD, Tufts University	
2006-10	Magdalini Vasiadi, BA	DSc, Athens University	
2009-13	Magdalini Vasiadi, BA	PhD Tufts University	
2011-	Anilia Taliou, MD	DSc candidate, Athens U	
2011-	Anastasia Therianou, MD	DSc candidate, Athens U	
2011-15	Alexandra Miniati, MD	DSc candidate, Athens U	
2011-	Nikolaos Sismanopoulos, MD	DSc candidate, Athens U	
2011-14	Melina Shoni, MD	DSc candidate, Athens U	
2012-	Arti Patel, MS	PhD candidate, Tufts U	
2012-	Alexandra Taracanova	PhD candidate, Tufts U	
2013-	Iro Palaska, DM, MS	DSc candidate, Athens U	
2014-	Amanda Gross, BS	PhD candidate, Tufts U	
2015-	Mona Bawazeer, PharmD, MS	PhD candidate, Tufts U	

Graduate Student Rotations

1984	Charles Vecoli	2002	Abdu Alrohaimi
1985	Karen J. Kotkow	2003	Lu Gan
1986	Jennifer Hartigan	2003	Anna Markowska
1986	Barbara LeDuc	2004	Man Chun
1989	Ivan Correia	2004	Lauren Oleson
1989	Michael Polymenis	2005	Brigham B. Hyde
1993	Leena Kudchadker	2005	Michael Tagen
1994	Monette M. Cotreau-Bibbo	2005	Brenda Stoller
1997	Beverly Harrington	2006	Kathryn Heard
1998	Pamela Esposito	2008	Bodi Zhang
1998	Leah Hesse	2009	Erin Fields
1998	Kerry Culm	2010	Katie Weng
1999	Kristiana Kandere	2011	Tuiy Vien
2000	Jill Berry	2011	Arti Patel
2001	Sarah Poplawski		

Medical, Dental and Masters Student Research Training

1985	Alicia Cartagena	M '88
1985-86	Aviva Lee-Parritz	M '88
1985-86	John Savala	M '90
1989-90	John Malcynski	M '91
1989-90	Jonathan Gorbach	M '93
1990	Todd Leventhal	M '92
1992	Ali Habibi	M '94
1992	Shahram Hoghaddam	D '94
1999	George Chiang	M '00
2004	Matthew Christian	M '05
2004	Craig Weikauf	M' 08
2005	Kristen Farwell	M'08
2007-10	Dean Papaliadis	M' 11
2010-11	John Stratigis	M' 14
2010-11	Petel Milonas	MBS' 11
2011-12	Steven Punzell	MBS' 10
2014	Lauren Arbetman	MBS' 14

College Student Research Training

1990-91	John Solomonides	Tufts '91	
1990	Helen Delihatsiou	MIT '91	
1992	Patti Siri	Tufts '92	
1993	Jessica Greenwood	Tufts '93	
1993-94	Tania Mangones	BU '95	
1994	Eric Evans	Tufts '94	
1995	Lisa Alferes	Tufts '95	
1995	Nicholas Varelas	BunkerHill '99	
1995	Konstantinos Ligris	BU '98	
1995-99	Nicholas Alexakos	Tufts '97	
1995	Dana Wald	Tufts '96	
1996	Jose Betances	Amherst '98	(NIH - Minority Trainee)
1997	Panagiotis Theofilopoulos	U. Athens '98	
1997	Tracye D. Kyles	Southern U. '98	(NIH - Minority Trainee)
1998	Kim Bates, R.N.	Tufts '99	
1998-99	Marlon Green	U. Mass. Boston '01	(NIH-Minority Trainee)
1998	Kathleen Spear	Curry College '99	
1999-00	Antone Alfonso	Curry College '00	
2000	Sheila Jeudy	Tufts '03	(NIH-Minority Trainee)
2000	Athena-Eleni Mavroudhes	BU '00	
2000	Gregory Patakos	Tufts '02	
2006	Rachel Singh	Tufts '06	
2006	E.J. Isoba	Tufts '06	
2006	Lauren Hess	U. Texas at Austin '08	
2006-07	Nivine Baba	Am. U. Beirut '06	
2007	Vasilios Kotsiopoulos, BS	BU '07	
2009	Jennifer Eng	Tufts '11	
2009	Vangelis Papadimas	Cornell '09	
2011	Maria Deligiannides	Olivet Nazarene University ,12	

Post-Baccalaureate Student Research Training

2005-07	Anthony Clemons	NIH PREP Fellow	PhD graduate, U Winsconsin
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High School Student Summer Research Training

1985	Tracy Desmond	Museum of Science Internship
1986	Diane Pfaelzer	Museum of Science Internship
1992	Ruth Dorcelus	NIH Minority Trainee
1993	Novella Brady	Boston Latin Academy, NIH Minority Trainee
1993	Nicholas Karatzas	Woburn High, went to Boston U.
1993	Anastasia Condos	Windsor High, went to Harvard U.
1993	Konstantinos Ligris	Newton South, went to Boston U, Boston Law
1994	Jason Goler	Walpole High, NIH Minority Trainee
1995	Monica David	Newton North, NIH Minority Trainee
1996	Marlon Green	Madison Park, NIH Minority Trainee
1997	Paki Philips	Pinkerton Academy, NIH Minority Trainee
1998	Cynthia Mompoint	Montrose School, NIH Minority Trainee, went to Georgetown U.
1998	Daphne Duvalsaint	Stoughton High School, Stoughton, MA
1999	Sheila Jeudy	Fontbonne Academy, Milton, MA, NIH Minority Trainee, went to Tufts Univ
2001	Amma Asane	Milton Academy, NIH Minority Trainee
2001	David Tutor	Newton South

2002	Joshna Hicks	Brookline High, NIH Minority Trainee
2003	Rayna Briceno	Newton County Day, NIH Minority Trainee, will attend Tufts U.
2004	Kathleen Solage	Boston Latin, NIH Minority Trainee
2004	Tayrickia Adams	Arlington High, NIH Minority Trainee
2005	Harrison Barnes	Brimmer & Mary School, Chestnut Hill, MA, NIH Minority Trainee
2005	Linwood Jackson	Archbishop Williams High, Braintree, MA, NIH Minority Trainee
2007	Cedric S. White	St. Sebastian's School, MA, NIH Minority Trainee
2009	Kwaku Acheampong	Xaverian Brothers High School, MA
2009	Trisha Barungi	
2009	Chris Kalogeromitros	Psychico Athens Prep School, Athens, Greece
2010	Jodaelle Racine	Prospect Hill Academy Charter School, Cambridge, MA
2011	Rose Fountotos	Marianopolis College, Montreal, Canada
2013	Mariana Athanasiou	Sadbury High school, MA

Graduate Student Doctoral Committee Chair

2011	Daniel O'Connell	Biochemistry
2011	Katherine Heard	Biochemistry
2012	Brendan H. Oakes	Pharmacology and Experimental Therapeutics
2012	Michael J Hanley	Pharmacology and Experimental Therapeutics
2013	Malek Najjar	Pharmacology and Experimental Therapeutics
2013	Fiaturi Najla	Pharmacology and Experimental Therapeutics
2013	Lei Cao	Pharmacology and Experimental Therapeutics

Courses

Medical Pharmacology

Pharm 218: Immunopharmacology-Advances and Failures in Drug Discovery

Trainee Distinctions (on work performed in our laboratory)

1985	Alicia Cartagena, MD (M'88)	Dean's Research Fellowship; First Prize, Mennheim-Ingelheim National Student Pharmacology Assay Competition; 1988 Henry J. Kaiser Family Foundation National Medical Fellowship Merit Award, Tufts U.
1985	Mona Lambracht-Hall, PhD ('89)	Berlex Laboratory Graduate Fellowship
1985	Aviva Lee-Parritz, MD (M'88)	Dean's Research Fellowship; 1988 William Dameshek Research Award; 1988 Harry H. Brenner Memorial Award, Tufts University
1986	John H. Savala, MD ('90)	American Heart Association Student Stroke Scholarship
1988	Leticia Acquah, MD (M'88)	Kos Pharmaceuticals Student Fellowship
1990	Todd Leventhal, MD (M'92)	American Foundation for Urologic Disease Fellowship
1990	Mohamed G. Haggag, DDS	American Peace Fellowship
1991	John Solomonides, MD (T'90)	New England Hellenic Medical & Dental Society Award
1992	Shahram Hoghaddam (D'93)	Provost and NIH Student Summer Research Fellowship
1999	George Chiang (M'00)	American Urologic Association Student Summer Research Fellowship
1999	Marlon Green (UMass'00)	New England Biomedical Science Careers Award
2001	George Chiang (M'00)	William Dameshek Research Award, Tufts University
2001	Man Huang, M.D.	Christian Herter Fund Travel Award
2002	Man Huang, M.D.	Norris Cotton Cancer Graduate Student Award
2002	Natha Chandler, M.D. (M '02)	William Dameshek Research Award
2005	Jill Donelan, B.S.	Sackler 2004, Experimental Biology 2005 Travel Fellowships
2005	Kristen Farwell, M'08	Harold Williams Tufts Medical Student Research Fellowship
2006	Jill Donelan, B.S., Ph.D. '06	First Louis Lasagna Translational Research Award, Commencement speaker 2006, Tufts University
2008	Michael Tagen, B.S., Ph.D. '08	Experimental Biology 2008 Travel Award New England Pharmacologists 2008 Award Sackler 2008 Travel Award
2010	Bodi Zhang, M.D., M.P.H., Ph.D. '11	Sackler Earl Charton 2010 Award
2014	Alexandra Taracanova, B.S.	Dean's Fellowship

Summary of Publications and Citations

	Type	Number	Page
a.	Theses	2	33
b.	Books	3	33
c.	Full papers	210	34-48
d.	Reviews/ Chapters/Editorials	189	49-58
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i.	Non-print publications	1	76
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Source: Google Scholar Citations from 376 publications in www.pubmed.gov

<u>Citation indices</u>	All
Citations	22,392
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a. Theses

- 1972 ***Medical Psychology in pre-Hippocratic Greece***
Joint Bachelor of Arts, Departments of Biology and History of Science and Medicine, Yale University (Professors Edgar J. Boell and Frederick L. Holmes, advisors)
- 1978 ***Regulation of Histamine Secretion in Rat Peritoneal Mast Cells***
Doctor of Philosophy, Department of Pharmacology, Yale University (Professor William W. Douglas, advisor)

b. Books

- Theoharides, T.C. *Pharmacokinetics: Administration, Uptake, Distribution, Biotransformation and Excretion of Drugs*, pp. 1-151. Pournaras: Thessaloniki, Greece, 1981.
- Theoharides, T.C. (ed.) *Essentials of Pharmacology*, pp. 1-479. Little, Brown and Company: Boston, 1992; 2nd edition, 1996.
- Theoharides, T.C. (ed.) *Pharmacology: Basic Principles in Clinical Practice*, pp. 1-750. Litsas Publishers: Athens, Greece, 1997.

c. Web Sites

- www.mastcellmaster.com
- www.brain-gate.org
- www.autismfreebrain.org

d. Live Presentations on Autism

- <http://www.autismedia.org/media3.html>
- <http://www.firstgiving.com/fundraiser/DrTheo/drtheoautismresearchfund>
- <http://www.youtube.com/watch?v=O2F0krqfzMQ&feature=related>
- <http://www.youtube.com/watch?v=3QFa36TBtvA>
- <http://www.youtube.com/watch?v=pNQsK9PQL3c>
- <http://www.youtube.com/watch?v=clnT4plFgQ>
- <http://www.youtube.com/watch?v=TMehgaoeHr0>
- <http://www.youtube.com/watch?v=-9rp1DcPnEM>
- <http://www.youtube.com/watch?v=CR8PzLAM-2E&feature=relmfu>
- <http://www.youtube.com/watch?v=EsaBJPc34xM>

e. Live Presentations on Cancer, Chronic Fatigue Syndrome, Interstitial Cystitis and Mastocytosis

- <http://www.firstgiving.com/fundraiser/DrTheo/drtheoautismresearchfund>
- <http://www.youtube.com/watch?v=CplxXGpFeKQ>
- http://www.youtube.com/watch?v=h9oj2v_1_Wk
- <http://www.youtube.com/watch?v=1TggRs6FOYw>
- <http://www.youtube.com/watch?v=YDR7b5cRhoo>
- <http://www.youtube.com/watch?v=zaPo0r37wEc>
- <http://www.youtube.com/watch?v=ME979bUD1J8>
- <https://www.youtube.com/watch?v=92nrFwcNSwc>
- <https://www.youtube.com/watch?v=Owt8NO7ahU> My mystery symptoms and mast cells (7,209 views)

d. Full Peer-Reviewed Papers

1. Theoharides, T.C. Galen on marasmus. *Journal of the History of Medicine and Allied Sciences* 26:369-390, 1971.
2. Theoharides, T.C. Some considerations of the mechanism underlying malaria infections and the relative resistance exhibited by sickle cell disease in humans. *Folia Biochemica et Biologica Graeca* 11:21-29, 1974.
3. Theoharides, T.C. Biosynthesis of ornithine decarboxylase. *Recent Progress in Hormone Research* 31:90-91, 1975.
4. Theoharides, T.C. and Canellakis, Z.N. Spermine inhibits induction of ornithine decarboxylase by cyclic AMP but not by dexamethasone in rat hepatoma cells. *Nature* 255:733-734, 1975.
5. Canellakis, Z.N. and Theoharides, T.C. Hormonal induction of ornithine decarboxylase in rat hepatoma (HTC) cells in culture and its regulation by polyamines. *Folia Biochemica et Biologica Graeca* 12:39-48, 1975.
6. Theoharides, T.C. and Canellakis, Z.N. Antiserum monospecific to hepatic ornithine decarboxylase. *Journal of Biological Chemistry* 251:1781-1784, 1976.
7. Theoharides, T.C. and Canellakis, Z.N. Isozymes of ornithine decarboxylase in fast growing malignant cells in culture. *Materia Medica Graeca* 4, supplement III:201-206, 1976.
8. Canellakis, Z.N. and Theoharides, T.C. Stimulation of ornithine decarboxylase synthesis and its control by polyamines in regenerating rat liver and cultured rat hepatoma cells. *Journal of Biological Chemistry* 251:4436-4441, 1976.
9. Theoharides, T.C. and Canellakis, Z.N. Immunological properties of ornithine decarboxylase from regenerating rat liver and cultured rat hepatoma cells. *Folia Biochemica et Biologica Graeca* 13:11-23, 1976.
10. Theoharides, T.C. On viral infectivity and carcinogenesis. *Perspectives in Biology and Medicine* 20:603-606, 1977.
11. Theoharides, T.C. Historical notes on some early clinical and biochemical investigations on sickle cell disease. *Folia Biochemica et Biologica Graeca* 13:57-66, 1976.
12. Scheinman, S., Burrow, G.N., Theoharides, T.C. and Canellakis, Z.N. Stimulation of ornithine decarboxylase synthesis in the rat thyroid. *Life Sciences* 21:1143-1148, 1977.
13. Theoharides, T.C. and Douglas, W.W. Somatostatin induces histamine secretion from rat peritoneal mast cells. *Endocrinology* 102:1637-1640, 1978.
14. Sieghart, W., Theoharides, T.C., Alper, D.S., Douglas, W.W. and Greengard, P. Calcium-dependent protein phosphorylation during exocytotic release of mast cell secretory granules. *Nature* 275:329-331, 1978.
15. Theoharides, T.C. and Douglas, W.W. Secretion in mast cells induced by calcium entrapped within phospholipid vesicles. *Science* 201:1143-1145, 1978.
16. Theoharides, T.C., Sieghart, W., Greengard, P. and Douglas, W.W. Antiallergic drug cromolyn may inhibit histamine secretion by regulating phosphorylation of a mast cell protein. *Science* 207:80-82, 1980.
17. Theoharides, T.C., Betchaku, T. and Douglas, W.W. Somatostatin-induced histamine secretion in mast cells. Characterization of the effect. *European Journal of Pharmacology* 69:127-137, 1981.

18. Baloyannis, S.J. and Theoharides, T.C. Mast cells in the central nervous system. *Materia Medica Greca* 9: 142-150, 1981.
19. Theoharides, T.C. Mast cells and precursor protein molecules. *Perspectives in Biology and Medicine* 24:499-502, 1981.
20. Theoharides, T.C. and Douglas, W.W. Mast cell histamine secretion in response to somatostatin analogues. Structural considerations. *European Journal of Pharmacology* 73: 131-136, 1981.
21. Theoharides, T.C., Sieghart, W., Greengard, P. and Douglas, W.W. Somatostatin-induced phosphorylation of mast cell proteins. *Biochemical Pharmacology* 30:2735-2736, 1981.
22. Sieghart, W., Theoharides, T.C., Douglas, W.W. and Greengard, P. Phosphorylation of a single mast cell protein in response to drugs that inhibit secretion. *Biochemical Pharmacology* 30:2737-2738, 1981.
23. Canellakis, Z.N., Theoharides, T.C., Bondy, P.K. and Triarhos, E.T. The role of calcium in the induction of ornithine decarboxylase in rat HTC cells. *Life Sciences* 29:707-710, 1981.
24. Tamir, H., Theoharides, T.C., Gershon, M. and Askenase, P.W. Serotonin storage pools in basophil leukemia and mast cells: characterization of two types of serotonin binding proteins and radioautographic analysis of the intracellular distribution of ³H-serotonin. *Journal of Cell Biology* 93:638-647, 1982.
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26. Theoharides, T.C., Bondy, P.K., Tsakalos, N.D. and Askenase, P.W. Differential release of serotonin and histamine from mast cells. *Nature* 297: 229-231, 1982.
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28. Theoharides, T.C. Mast cells and migraines. *Perspectives in Biology and Medicine* 26:672-675, 1983.
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32. Baloyannis, S.J., Theoharides, T.C., Manolidou, P. and Manolides, L.S. Morphologic alterations in rat cortical and cerebellar neurons and synapses during prolonged oral barbiturate administration. *Hellenic Anesthesiology* 19:225-234, 1985.
33. Tsakalos, N.D., Theoharides, T.C., Goffinet, J., Dwyer, J.M., Whisler, R.L. and Askenase, P.W. Immune impairment in chronic renal failure: evidence for defective regulation of lymphocyte responses by macrophages and T cells from chronic renal impairment patients on hemodialysis. *Clinical and Experimental Immunology* 63:218-227, 1986.

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38. Lambracht-Hall, M., Konstantinidou, A.D. and Theoharides, T.C. Serotonin release from rat brain mast cells *in vitro*. *Neuroscience* 39:199-207, 1990.
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40. Lambracht-Hall, M., Dimitriadou, V. and Theoharides, T.C. Migration of mast cells in the developing rat brain. *Developmental Brain Research* 56:151-159, 1990.
41. Kops, S.K., Theoharides, T.C., Cronin, C.T., Kashgarian, M. and Askenase, P.W. Ultrastructural characteristics of rat peritoneal mast cells during differential release of serotonin without histamine and without degranulation. *Cell Tissue Research* 262:415-424, 1990.
42. Theoharides, T.C., Flaris, N.A., Cronin, C.T., Ucci, A. and Meares, E. Mast cell activation in sterile bladder and prostate inflammation. *International Archives of Allergy and Applied Immunology* 92:281-286, 1990.
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46. Kouretas, D., Trnovsky, J., Holdridge, H. and Theoharides, T.C. Two dimensional gel electrophoretic profile of rat basophilic leukemia (RBL) and mast cells. *Life Sciences* 49:1289-1294, 1991.
47. Marathias, K., Lambracht-Hall, M., Savala, J. and Theoharides, T.C. Endogenous regulation of rat brain mast cell serotonin release. *International Archives of Allergy and Applied Immunology* 95:332-340, 1991.
48. Theoharides, T.C., Baloyannis, S.J. and Manolides, L.S. Activated rat peritoneal mast cells can cause syngeneic rat brain demyelination *in vitro*. *International Journal of Immunopathology and Pharmacology* 4:137-144, 1991.
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52. Buzzi, M.G., Dimitriadou, V., Theoharides, T.C. and Moskowitz, M.A. 5-Hydroxytryptamine₁ receptor agonists for the abortive treatment of vascular headaches block mast cell, endothelial and platelet activation within the dura mater after trigeminal stimulation. *Brain Research* 583:137-149, 1992.
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54. Theoharides, T.C. Hydroxyzine for interstitial cystitis. *Journal of Allergy and Clinical Immunology* 91:686-687, 1993.
55. Letourneau, R. Sant, G.R., El-Mansoury, M. and Theoharides, T.C. Activation of bladder mast cells in interstitial cystitis. *International Journal of Tissue Reactions* 14:307-312, 1992.
56. Theoharides, T.C., El-Mansoury, M., Letourneau, R., Boucher, W.S. and Rozniecki, J.J. Dermatitis characterized by mastocytosis at immunization sites in mast cell deficient W/W^v mice. *International Archives of Allergy and Immunology* 102:352-361, 1993.
57. Theoharides, T.C., Dimitriadou, V., Letourneau, R., Vliagoftis, H., Rozniecki, J.J. and Holdridge, M. Synergistic action of estrogen and myelin basic protein on rat mast cell secretion and brain myelin changes resembling early stages of demyelination in Lewis, but not Sprague/Dawley rats. *Neuroscience* 57:861-871, 1993.
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63. Conti, P., Boucher, W., Barbacane, R.C., Reale, M., Placido, F.C., Haggag, I. and Theoharides, T.C. Down-regulation of histamine and serotonin release in a basophilic leukemia cell line by interleukin-1 receptor antagonist (IL-1RA). *Challenges of Modern Medicine* 8:323-330, 1994.
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164. Cao, J., Kempuraj, D., William B. and Theoharides, T.C. Corticotropin-releasing hormone (CRH) induces secretion of vascular endothelial growth factor (VEGF) from human mast cells. *Experimental Biology 2005* (San Diego, CA, March 31-April 5, 2005).

165. Donelan, J., Marchand, J., Lytinas, M., Boucher, W., Papaliadis, D. and Theoharides, T.C. Co-expression of corticotropin-releasing hormone (CRH) and neurotensin (NT) in mouse dorsal root ganglia (DRG) and effect on skin vascular permeability. *Experimental Biology 2005* (San Diego, CA, March 31-April 5, 2005).
166. Farwell, K., Bhattacharya, K., Huang, M., D. Kempuraj, D., Cao, J., Donelan, J. and T.C. Theoharides. Myocardial ischemia-reperfusion Injury results in less cardiac tissue damage and no serum IL-6 concentration change in W^V/W^V mast cell deficient mice as compared to their normal littermates. *Experimental Biology 2006*, in press
167. Kempuraj, K., Geiger, B., Tagen, M., Boucher, W. and Theoharides, T.C. Myelin basic protein (MBP) triggers IL-8 and tryptase release from human umbilical cord blood-derived mast cells. *J Immunol* (Boston, May 12-16) 176:S4, 2006.
168. Hyde, B.B., Papadopoulou, N. and Theoharides, T.C. Human mast cells express TLR 3, 7 and TLR-9 mRNA is induced by viral sequence K3 CPG-ODN. *Proc. Am. Association of Immunologists* (Boston, May 12-16), 176:S322, 2006.
169. Boucher, W., Donelan, J., Leeman, S. and Theoharides, T.C. The neurotensin (NT) receptor antagonist SR-48,692 inhibits mast cell-dependent rat skin vascular permeability induced by NT, but also compound 48/80, SP and VIP. *Proc. Am. Association of Immunologists* (Boston, May 12-16) C167, 2006.
170. Bhattacharya, K., Farwell, K., Huang, M., Kempuraj, D. and Theoharides, T.C. Mast-cell deficient mice produce less circulating IL-6 and exhibit less cardiac tissue damage than their littermates following myocardial ischemia reperfusion injury. *Circulation Res.* 99 (5):E43-43 (September 1, 2006).
171. Makris, M., Kalogeromitros, D., Kempuraj, D., Katsarou-Katsari, A., Grigoriou, S. and Theoharides, T.C. Theophylline as “add-on” therapy to cetirizine in patients with chronic idiopathic urticaria: a randomized, double-blind, placebo-controlled pilot study. *Proc. European Histamine Research Society XXXV Annual Meeting* (May 10-13 2006, Delphi, Greece).
172. Theoharides, T.C., Kempuraj, D. Amitriptyline inhibits mast cell histamine secretion: implications for chronic fatigue syndrome therapy. *Proc. European Histamine Research Society XXXV Annual Meeting* (May 10-13 2006, Delphi, Greece).
173. Kalogeromitros, D., Papadopoulou, N., Staurianeas, N.G., Tiblalexi, D., Theoharides, T.C. Skin histidine decarboxylase (HDC) and corticotropin-releasing hormone receptor-1 (CRH-R1) genes are overexpressed in chronic urticaria (CU). *Proc. European Histamine Research Society XXXV Annual Meeting* (May 10-13 2006, Delphi, Greece).
174. Theoharides, T.C., Cao, J., Papadopoulou, N., Kempuraj, D., Tagen, M. Evidence of human mast cell function in inflammatory diseases. *Proc. European Histamine Research Society XXXV Annual Meeting* (May 10-13 2006, Delphi, Greece).
175. Cao, J., W. Boucher, W., Donelan, J.M. and Theoharides, T.C. Intravesical corticotropin-releasing hormone (CRH) induces mast cell-dependent vascular endothelial growth factor (VEGF) release from mouse bladder explants. *Proc. NIDDK International Symposium: Frontiers in Painful Bladder Syndrome and Interstitial Cystitis* (October 24-27, 2006; Bethesda, MD).
176. Marchand, J., Kempuraj, D., Vasiadi, M., Theoharides, T.C. Corticotropin-releasing hormone receptor expression in human urothelium and association with mast cells. *Proc. NIDDK International Symposium: Frontiers in Painful Bladder Syndrome and Interstitial Cystitis* (October 24-27, 2006; Bethesda, MD).

177. Boucher, W., Kempuraj, D., Cao, J., Theoharides, T.C. Intravesical suplatast tosilate (IPD-1151T) inhibits experimental Bladder inflammation. *Proc. NIDDK International Symposium: Frontiers in Painful Bladder Syndrome and Interstitial Cystitis* (October 24-27, 2006; Bethesda, MD).
178. Theoharides, T.C., Vakali, S., D. Kempuraj, D., Sant, G.R. A retrospective open label study of CYSTOPROTEK® in painful bladder syndrome/interstitial cystitis (PBS/IC). *Proc. NIDDK International Symposium: Frontiers in Painful Bladder Syndrome and Interstitial Cystitis* (October 24-27, 2006; Bethesda, MD).
179. Boucher, W., Stern, J.M., Kempuraj, D., Papaliadis, D., Cohen, M.S., Theoharides, T.C. Intravesical nanocrystalline silver (NCS) inhibits experimental bladder inflammation in rats. *Proc. NIDDK International Symposium: Frontiers in Painful Bladder Syndrome and Interstitial Cystitis* (October 24-27, 2006; Bethesda, MD).
180. Boucher, W., V. Kotsinyan, V., Kempuraj, D., Shing, R., Theoharides, T.C. Corticotropin-releasing hormone receptor (CRH-R) involvement in CRH-induced mouse bladder inflammation. *Proc. NIDDK International Symposium: Frontiers in Painful Bladder Syndrome and Interstitial Cystitis* (October 24-27, 2006; Bethesda, MD).
181. Kempuraj, D., Tagen, M., Iliopoulou, B.P., Vasiadi, M., Boucher, W., House, M., Theoharides, T.C. Myelin basic protein stimulates human mast cells and together they activate T cells: inhibition by luteolin and implications for multiple sclerosis. *Proc. Keystone Symposia. Mast cells, Basophils, and IgE: Host Defenses and Disease*, p. 52 (January 20-24, 2007; Copper Mountain, CO).
182. Maliakal, J.C., Tagen, M., Drori, T., Kempuraj, D., Biran, I., Theoharides, T.C. Live cell imaging of human mast cells on a pico-well live cell array at single cell resolution. *Proc. Keystone Symposia. Mast cells, Basophils, and IgE: Host Defenses and Disease*, p. 56 (January 20-24, 2007; Copper Mountain, CO).
183. Karapanou, V., Theoharides, T.C. Interleukin-8 and TNF-alpha detection in gingival crevicular fluid of teeth with acute pulpitis. *Proc. Annual Meeting of the American Society of Endodontics (April 27-29, 2007; Philadelphia, PA)*.
184. Kempuraj D., Boucher W., Theoharides T.C. Flavonols inhibit proinflammatory mediator release, intracellular calcium ion levels and protein kinase C theta phosphorylation in human mast cells: implications for the treatment of allergic and inflammatory disorders. *Proc. BIO International Convention* (May 7-9, 2007; Boston, MA).
185. Theoharides, T.C. Kounis syndrome. In: Drug-Eluting Stents: Thrombosis and Hypersensitivity. *Proc. 56th Annual Scientific Session, Am. College of Cardiology* (March 24-27, 2007; New Orleans, LO), in press.
186. Kempuraj, D., Iliopoulou, B.P., Clemons, A., Boucher, W., Tagen, M., Vasiadi, M., House, M., Wolfberg, A., Theoharides, T.C. Substance P stimulates human mast cells and together they activate T cells: Inhibition by luteolin. *Proc. Am. Association of Immunologists* (2007).
187. Theoharides, T.C. CRH, mast cells and bladder function. *HANS SELYE and Saint Justine Hospital Centennial Symposium: Stress: basic Mechanisms and Clinical Implications (July 11-14, 2007, UNIVERSITÉ DU QUÉBEC À MONTRÉAL (UQAM), Montreal, Quebec, Canada)*.
188. Theoharides TC. Mast cells, T cells and inhibition by luteolin: Implications for the pathogenesis and treatment of multiple sclerosis. *2nd International Immune Mediated Diseases Congress (September 10-14, 2007, Moscow, Russia)*.
189. Tagen, M., Elorza, A., Shirihai, O., Theoharides, T.C. Inhibition of mast cell degranulation by PPAR α agonists is mediated through UCP2. *Experimental Biology 2008-Abstract #1139.1*. (April 5-9; San Diego, CA)

190. Tagen, M., Elorza, A., Shirihai, O., Theoharides, T.C. Uncoupling protein 2 regulates histamine production and mast cell activation *New England Pharmacologists Meeting 2008*-Abstract O-15. (Feb 29-March 1; Dedham, MA).
191. Vasiadi, M, Kalogeromitros, D, Kempuraj, D, Theoharides, T.C *Rupatadine inhibits mediator secretion from human mast cells*. XXVII Congress of the European Academy of Allergology and Clinical Immunology (June 7-11; Barcelona, Spain), in press.
192. Kempuraj, D., Iliopoulou, B.P, Clemons, A, Boucher, W, Tagen, M, Vasiadi, M, House, M, Wolfberg, A, Theoharides, T.C. Human mast cells stimulate activated T cells, an effect increased by substance P and inhibited by the flavonoid luteolin. XXVII Congress of the European Academy of Allergology and Clinical Immunology (June 7-11; Barcelona, Spain), in press.
193. Tagen, M., Elorza, A., Shirihai, O., Theoharides, T.C. Uncoupling protein 2 regulates mast cell histamine production and activation. *FASEB 2008*, in press. 5th International Innate Immunity Conference (June 21-26; Hania, Greece, 2008).
194. Kempuraj, D., Hogan, J., Zhang, B., Kourelis, T., Manola, A., Theoharides, T.C. Mercury chloride triggers human mast cells to release vascular endothelial growth factor (VEGF)-relevance to autism. AAI, in press.
195. Asadi S, Zhang B, Weng Z, Angelidou A, Kempuraj D, Alysandratos K-D, Theoharides TC. Thimerosal induces VEGF release from human mast cells, but its effect is weakened by its thiosalicylate component and is blocked by luteolin. *The Emerging Neuroscience of Autism Spectrum Disorders: Etiologic Insights; Treatment Opportunities*. Society of Neuroscience (November 11-12, 2010; San Diego, CA).
196. Angelidou A, Francis K, Vasiadi M, Alysandratos K-D, Zhang B, Asadi S, Theoharides A, Lykouras L, Kalogeromitros D, Theoharides TC. Neurotensin is increased in serum of young children with autism. *The Emerging Neuroscience of Autism Spectrum Disorders: Etiologic Insights; Treatment Opportunities*. Society of Neuroscience (November 11-12, 2010; San Diego, CA).
197. Zhang B, Alysandratos K-D, Angelidou A, Vasiadi M, Kempuraj D, Tagen M, Asadi S, Theoharides TC. TNF secretion from human mast cells is regulated by mitochondrial dynamics and mitochondrial uncoupling protein 2 (UCP2). *Am. Assn. Immunol.* (May 14, 2010; Baltimore, MD)
198. Theoharides TC, B. Zhang B, Asadi S, Weng Z. Human mast cells secrete mitochondrial DNA that has inflammatory actions, is increased in the serum of children with autism and is inhibited by luteolin. *Am. Assn. Immunol.* (May 7, 2013; Honolulu, Hawaii)

i. Non-print publications

1. The *Pharmacology TextStack*. Educational Software for pharmacology available for Macintosh and windows. Keyboard Publishing, PA, 1992.

The *Pharmacology TextStack* is an electronic edition of *Pharmacology*, a student-friendly succinct text, problem and review book edited by Theoharis C. Theoharides and published by Little, Brown & Co, 1992. In addition to the complete text and all figures, diagrams and tables appearing in the textbook, this program also includes all of the review and self-testing materials from the text, with complete feedback on all questions and easy access to the full text for additional review.

This was the **only** textbook of pharmacology available in an electronic edition at the time and was ideal for teaching purposes. Each chapter in the *Pharmacology TextStack* begins with a statement of objectives and ends with a self-testing module linked to related sections in the chapter, making it ideal for easy incorporation into the pharmacology curriculum in medical, dental, pharmacy and basic science programs.

The *Pharmacology TextStack* enables you to locate, view, manipulate, tag and save information on key topics. As with other Keyboard Series software, the *Pharmacology TextStack* is fully searchable - locate any word or phrase from this 600 page text quickly and easily.

In addition, the *Pharmacology TextStack* includes a unique Transcript function that lets you build customized lessons for easy review and learning, letting you add your own notes to further enhance the materials provided by the program.

k. Invited Lectures

- 1) 1975 Genetics Colloquium, University of Michigan, Ann Arbor, MI
- 2) 1978 Biological Basis of Cancer Chemotherapy, Thessaloniki, Greece
- 3) 1980 Immunology Rounds, Johns Hopkins University/Good Samaritan Hospital, Bethesda
- 4) 1980 IXth Congress of the European Association of Poison Control Centers, Greece
- 5) 1981 Cystic Fibrosis Rounds, University of Florida, Gainesville
- 6) 1982 Health Care Delivery in Greece, New York
- 7) 1983 United Nations Environment Program - Mediterranean Action Plan, Athens
- 8) 1984 Gastroenterology Rounds, Boston University Medical Center, Boston
- 9) 1984 Ninth International Congress of Pharmacology, London
- 10) 1985 Immunotherapy of Cancer, Thessaloniki, Greece
- 11) 1986 Second World Conference on Inflammation, Monte Carlo
- 12) 1986 Conference on Healing, New York
- 13) 1986 Third E.N.T.- Neurosurgery Italian-Greek-Jugoslav Congress, Rome
- 14) 1986 National Conference on Cancer Treatment, Thessaloniki, Greece
- 15) 1987 World Conference on Analgesics, Caracas
- 16) 1987 Internal Medicine Association of Guatemala, Guatemala City
- 17) 1987 Neurology Grand Rounds, Social Security Administration of Mexico
- 18) 1987 Conference on Science and Religion, Boston
- 19) 1987 World Congress of Pediatrics, Panama
- 20) 1987 Fifth World Congress on Pain, Hamburg
- 21) 1987 35th Meeting of the European Tissue Culture Society, Patras, Greece
- 22) 1989 Third Interscience World Conference on Inflammation, Monte-Carlo
- 23) 1989 Fourth E.N.T. - Neurosurgery Italian-Greek-Jugoslav Congress, Greece
- 24) 1990 Annual Meeting, National Nutritional Foods Association, Boston
- 25) 1990 Panel speaker: 3rd ICA/NIH National Meeting on Interstitial Cystitis, New Orleans, LA
- 26) 1991 Sixth Panhellenic Congress of Otorhinolaryngology-Allergic Rhinitis, Thessaloniki
- 27) 1991 Panel Speaker: 4th ICA/NIH National Meeting on Interstitial Cystitis, Arlington, VA
- 28) 1992 First Panhellenic Congress of Allergy and Clinical Immunology, Athens

- 29) 1992 Pharmacology Program, Mt. Sinai School of Medicine, New York
- 30) 1992 Immunology Program, McMaster University, Canada
- 31) 1992 XI International Symposium on Infection and Allergy of the Nose, Rome
- 32) 1993 Fifth World Conference on Inflammation, Geneva
- 33) 1993 Keynote speaker: New trends in IC therapy, PA ICA Association, Harrisburg, PA
- 34) 1993 Keynote speaker: 7th NIH/ICA National Meeting, Orlando, FL.
- 35) 1993 Keynote speaker: *Pathophysiology of interstitial cystitis: the role of the mast cells*, First International Seminar on Female Urology in Patras, Greece (November 19-21, 1993).
- 36) 1994 *New Trends in the treatment of urticaria: neuroimmunoendocrine stimulation of skin mast cells*. Fourth International Symposium on Dermatology, Jeddah, Saudi Arabia (January 31-February 3, 1994).
- 37) 1994 *Differentiation and pathophysiology of bone marrow-derived mast cells*, Evangelismos General Hospital, Athens, Greece (February 7, 1994).
- 38) 1994 Keynote speaker: *The mast cell and inhibitors of its degranulation*, Second Panhellenic Congress of Allergy and Clinical Immunology in Athens, Greece (February 10-12, 1994).
- 39) 1994 *Pathophysiology of neuroimmunoendocrine syndromes*, AHEPA General Hospital, Thessaloniki, Greece (February 14, 1994).
- 40) 1994 *Inhibition of mast cell secretion by a unique phosphoprotein*, Yale University School of Medicine (May 20, 1994).
- 41) 1994 Keynote speaker: *Scientific and social implications of generic drug use*, Second Panhellenic Congress of Hospital Pharmacists, Thessaloniki, Greece (May 27, 1994)
- 42) 1994 Keynote speaker: *Politics and funding of drug development for orphan diseases*, Seventh Panhellenic Pharmaceutical Congress, Athens, Greece (June 11, 1994).
- 43) 1994 Keynote speaker: *Neuroimmunoendocrine involvement in interstitial cystitis*. Tenth Annual Meeting, Texas ICA, Houston, TX (November 5, 1994).
- 44) 1994 State of the Art Lecture: *Pathophysiology and treatment of interstitial cystitis*. C.E. Acken International Meeting in Wuppertal-Barmen, West Germany (December 1, 1994).
- 45) 1995 *Neuroimmunoendocrine stimulation of mast cells: new implications for pathophysiology and therapy*, Pulmonary and Critical Care Division, Tufts-New England Medical Center.
- 46) 1995 Plenary Lecture: *Neurogenic inflammation and neuroinflammatory disorders*. Sixth World Conference on Inflammation, Geneva, (March 28, 1995).
- 47) 1995 *Stress-induced skin mast cell activation*. International Meeting on Mast Cell-Neuron Interactions, Berlin (September 1995).
- 48) 1995 *Pharmacology of interstitial cystitis: workshop*. Eighth Annual ICA Meeting, San Diego (October 1995).

- 49) 1996 *The mast cell: a neuroimmunoendocrine master player*. 2nd European Medical Students' Symposium, Thessaloniki, Greece (May 4-5, 1996).
- 50) 1996 *New trends explaining the pathophysiology of allergy: correlation with neuroinflammatory syndromes*. Pan Cretan Medical Congress, Heraklion, Greece (October 24-27, 1996).
- 51) 1996 *Neuroimmunoendocrine basis of interstitial cystitis*. 3rd International Society for Neuroimmunomodulation, Bethesda MD (November 13-15, 1996).
- 52) 1996 *Pathophysiology of migraines and the role of stress*. First Pain Congress of the Hellenic Pain Society, Volos, Greece (December 1-3, 1996).
- 53) 1997 *Urocortin-induced skin mast cell activation and vasodilation: implications for the role of stress in atopic diseases*. Section of Allergy and Clinical Immunology, Yale University School of Medicine, New Haven, CT (March 7, 1997).
- 54) 1997 *A natural phosphoprotein inhibiting mast cell secretion: implications for the therapy of atopic diseases*. Annual Congress of the European Association of Allergy and Clinical Immunology, Rhodes, Greece (June 1-5, 1997).
- 55) 1997 *Urocortin and CRF trigger mast cell activation and increased vascular permeability: implications for the pathophysiology of stress-induced atopic and inflammatory syndromes*. Seventh Interscience World Conference on Inflammation, Geneva (May 19-21, 1997).
- 56) 1997 Chairman, *Round table discussion on post graduate medical education*. Third European Medical Student Congress, Crete, Greece (April 11-13, 1997).
- 57) 1997 Chairman, *Symposium on Immune-Neuronal-Endocrine Interactions in the Pathophysiology of Allergic and Autoimmune Diseases*. Annual Congress of the European Association of Allergy and Clinical Immunology, Rhodes, Greece (June 1-5, 1997).
- 58) 1997 Grand Rounds. *Interstitial Cystitis and Pelvic Pain*. Department of Obstetrics and Gynecology, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire (October 9, 1997).
- 59) 1997 *Pharmacology and Interstitial Cystitis*. Interstitial Cystitis Association's Ninth Annual Meeting, Arlington, VA (November 1 & 2, 1997).
- 60) 1997 *CRH-Induced Vascular Permeability and Its Role in Stress-Induced Syndromes*. University of Pennsylvania Medical Center (November 5, 1997).
- 61) 1998 *Allergy and mast cell mediators in cyclic vomiting*. 2nd International Scientific Symposium on Cyclic Vomiting Syndrome, Milwaukee, WI (April 24-25, 1998).
- 62) 1998 *Psychological stress triggers cardiac mast cell activation and myocardial ischemia in mice*. XVI World Congress of the International Society for Heart Research, Rhodes (May 30, 1998).
- 63) 1998 *Sex Differences in Pain Perception in Neuroinflammatory Syndromes*. 5th Congress of the Hellenic Anesthesiology and Intensive Care Medicine Society, Thessaloniki (June 5, 1998).
- 64) 1998 *Pharmacokinetics and polypharmacy in the elderly. The problem of benzodiazepines*. 5th Congress of the Hellenic Anesthesiology and Intensive Care Medicine Society, Thessaloniki (June 5, 1998).
- 65) 1998 *Health Care Opportunities in the Private Sector. Prospects and Challenges for the Greek and International Health Care Sector of Today and Tomorrow*. The Economist Conferences, Athens (November 11-12, 1998).
- 66) 1998 *Corticotropin releasing hormone and mast cells: a new view of neurogenic inflammation*. Endocrinology Grand Rounds, New England Medical Center (Nov 24).

- 67) 1999 *Biomedical research and health as stabilizing factors among world communities*. Key Note Address: Fifth World Hellenic Biomedical Conference, New York City (December 4-6, 1998).
- 68) 1999 *Novel approaches to pain: gender, sex and neurogenic inflammation*. HIT: Hellenic-Israeli-Turkish Conference on Pain, Crete (May 1999).
- 69) 1999 *Effect of acute stress on inflammatory processes*. European Conference on Biomedical Research and Peace, Cyprus (October 17-21, 1999).
- 70) 2000 *Pathophysiology and treatment of neuro-inflammatory syndromes*. First Congress of the Hellenic Pharmacological Society, Athens (February 19, 2000).
- 71) 2000 *The use and abuse of ethical medications: the next millennium*. The Economist Conferences, Athens (June 10, 2000).
- 72) 2000 *Translational Research: a case study*. First Conference on Biomedical Research in Education, Heraklion, Greece (October 6-8, 2000).
- 73) 2000 *Acute stress induces cardiac IL-6 release and inflammation: therapeutic effect of natural flavonoids*. Sixth Conference of the World Hellenic Biomedical Association, Athens, Greece (October 11-14, 2000).
- 74) 2001 *Benefits and risks of epharma*. European Conference on Health, Thessaloniki, Greece (March 8, 2001).
- 75) 2001 *Structural requirements for anti-inflammatory effects of flavonoids*. Advanced Medicinal Chemistry Seminars, Thessaloniki, Greece (May 18, 2001).
- 76) 2001 *Design and implementation of an electronic drug interactions program for Greece: why it is needed and why it is not in place. **The First Flessas Memorial Lecture***. The Hellenic Medical Society of New York and Hellenic Link, Inc. , New York City (June 10, 2001).
- 77) 2001 *Stress-induced inflammation: asthma, migraines, multiple sclerosis and beyond*. Plenary Lecture, National Minority research Symposium, Cancun, Mexico (October 18-20, 2001).
- 78) 2002 *Acute stress-induced blood-brain-barrier permeability, a mast cell and corticotropin releasing hormone dependent process*. Division of Rheumatology, Immunology and Allergy, Brigham and Women's Hospital, Harvard Medical School (March 25, 2002).
- 79) 2002 *Selective release of IL-6 from human mast cells*. Keynote speaker. 8th Annual Meeting, The Mastocytosis Society, Windsor Locks, CT (October 4&5, 2002).
- 80) 200 2 *The role of mast cells in the neurocutaneous axis*. 1st International Workshop on cutaneous neuroendocrinology, Hamburg, Germany (Sept. 13-15, 2002).
- 81) 2002 *Dietary supplement effect on mast cells*. International Symposium on Complementary Alternative Medicine - Allergy, Asthma & Immunology, American College of Allergy, Asthma and Immunology, San Antonio, TX (Nov, 14, 2002).
- 82) 2003 *Mast cells in inflammatory arthritis*. Department of Biochemistry, Tufts University School of Medicine. Boston, MA (January 9, 2003).
- 83) 2002 *Abuse of OTC drugs*. Brookline High School, Brookline, MA. (December 2002 series).
- 84) 2003 *Abuse of dietary supplements*. Brookline High School, Brookline, MA (January 2003 series).
- 85) 2003 *Stress induced-bladder inflammation*. International IC Conference, Kyoto, Japan (March 28 – 30, 2003).
- 86) 2003 *Global health, leadership and world peace*. Keynote Address at 10th Annual Conference of the Midwest Institute, Cleveland, OH (April 5, 2003).

- 87) 2003 *Code 99: Cardiac mast cells feel the squeeze.* Department of Medicine, Tufts - New England Medical Center (April 8, 2003).
- 88) 2003 *Global education and world leadership.* Keynote address, St. Louis Community College, St. Louis, MO (August 25, 2003).
- 89) 2004 *The mast cell as an immune sensor of stress.* Dept. Of veterinary PathoBiology, College of veterinary Medicine, University of Minnesota, St. Paul, MN (April 28, 2004).
- 90) 2004 *Co-Chairman, Emerging Infectious Diseases and New Problems, 3rd International Workshop on Immunology and Infectious Diseases, Naples, Italy (June 8-10, 2004).*
- 91) 2004 *Corticotropin-releasing factor-mast cell axis: Link to allergic diseases.* Stress and Asthma, Arlington, VA (October 2, 2004).
- 92) 2004 *Stem cell physiology/The role of mast cells.* 6th International Cord Blood Society Congress, Boston, MA (October 3, 2004).
- 93) 2004 *Mast cells as key modulators of environmental and psychological stress.* 3rd International Conference on Innate Immunity, Hersonisos, Crete, Greece (October 11, 2004).
- 94) 2004 *Acute stress triggers selective mast cell activation through CRH and IL-1.* Gastroenterology Division, Beth Israel/Deaconess Medical Center-Harvard Medical School, Boston, MA (October 27, 2004).
- 95) 2004 *Selective mast cell activation mediates the effect of acute stress.* The Mind/Body Medical Institute-Harvard Medical School, Boston, MA (November 22, 2004).
- 96) 2005 *Activation of distinct CRH receptors leads to selective secretion of either IL-6 or VEGF from human mast cells.* 5th Mast Cell Workshop: Mast Cell Signaling and Function in Health and Disease, Eilat, Israel (February 6-10, 2005).
- 97) 2005 *Stress, mast cells and CR: The fateful triangle of inflammatory diseases.* 39th Annual Scientific Meeting of the European Society for Clinical Investigation, Athens, Greece (April 9, 2005).
- 98) 2005 *Critical role of mast cells in stress-induced inflammatory disorders.* 6th Meeting of the International Society for NeuroImmunoModulation. Athens, Greece (September 25-28, 2005).
- 99) 2005 *Neuroimmune aspects of painful bladder syndrome/interstitial cystitis and endometriosis: two major chronic pelvic pain disorders.* 6th Congress on Women's health & Disease. Athens, Greece (September 25-28, 2005).
- 100) 2005 *Critical role of mast cells and neuropsychiatric disorders.* Annual Meeting of the Systemic Mastocytosis Society, Santa Ana, CA (October 7-10, 2005).
- 101) 2005 *Mast cells in chronic fatigue syndrome and fibromyalgia.* Munich, Germany (November 28, 2005).
- 102) 2006 *Role of mast cells in inflammatory disorders.* 10th Medical Meeting of the Naval Hospital, Athens, Greece (February 10-11, 2006).
- 103) 2006 *Migraine headaches: the immunologist's view.* Cardiology Update 2006- Cardiology & Neurology at a Crossroad, Athens, Greece (April 14-15, 2006).
- 104) 2006 *The role of mast cells in acute coronary syndromes.* Cardiology Update 2006-Coronary Artery Disease Prevention & Therapy Update, Athens, Greece (April 14-15, 2006).
- 105) 2006 *Stress-induced skin mast cell activation and increased vascular permeability.* Conference on Stress and skin, New York, NY (June 2-5, 2006).

- 106) 2006 *Stress, mast cells and the blood-brain-barriers: the fateful triangle in MS pathogenesis*. Sero Pharmaceutical, Geneva, Switzerland (June 16, 2006).
- 107) 2006 *The immune sensor of environmental stress*. Hellenic Armed Forces Medical Symposium, Thessaloniki, Greece (Nov. 25, 2006).
- 108) 2007 *The spectrum of mastocytosis*. University of Carolina College of Pharmacy, Columbia, SC (January 23, 2007).
- 109) 2007 *Mastocytosis and mast cell activation diseases*. Hellenic Hematology Association, Athens, Greece (Feb. 3, 2007).
- 110) 2007 *The effect of stress on inflammatory diseases*. Open Public University and Hellenic Medical Society, Municipality of Hania, Crete, Greece (Feb. 21, 2007).
- 111) 2007 *Skin corticotropin-releasing hormone receptor expression in urticaria, psoriasis and mastocytosis-implications for multiple sclerosis*. Section of Allergy and Clinical Immunology, Yale University School of Medicine, New Haven, CT (March 9, 2007).
- 112) 2007 *Mast cell-dependent T cell stimulation and inhibition by luteolin*. Section of Allergy and Clinical Immunology, Yale University School of Medicine, New Haven, CT (March 9, 2007).
- 113) 2007 *Kounis syndrome*. In: *Drug-Eluting Stents: Thrombosis and Hypersensitivity*. 56th Annual Scientific Session, Am. College of Cardiology (March 24-27, 2007; New Orleans, LO).
- 114) 2007 *CRH, mast cells and bladder function*. HANS SELYE and Saint Justine Hospital Centennial Symposium: Stress: basic Mechanisms and Clinical Implications (July 11-14, 2007, UNIVERSITÉ DU QUÉBEC À MONTRÉAL (UQAM), Montreal, Qubec, Canada).
- 115) 2007 *Mast cells, T cells and inhibition by luteolin: Implications for the pathogenesis and treatment of multiple sclerosis*. 2nd International Immune Mediated Diseases Congress (September 10-14, Moskow, Russia).
- 116) 2007 *Selective release of mast cell mediators*. Department of Pathology, Boston University (October 2, 2007).
- 117) 2007 *Selective mediator release and effect of stress in urticaria pigmentosa*. Annual Meeting, US Systemic Mastocytosis Society (October 12, 2007; Houston, TX).
- 118) 2007 *CRH dysregulation in psoriasis*. 3rd Attikes Dermatology Days Congress (November 5, 2007; Athens, Greece).
- 119) 2007 *Regulation of selective release of mast cell mediators*. Brigham and Women's Hospital-Dana Farber Cancer Center, Harvard University (November 29, 2007; Boston, MA).
- 120) 2007 *Role of mast cells in wound healing*. 8th Annual Meeting on Wound Healing-Science and Industry-CME lecture (St. Thomas, USA; December 14, 2007).
- 121) 2008 *Interstitial Cystitis/Painful Bladder Syndrome*. University of Phoenix, (January 1, 2008; Phoenix, AZ).
- 122) 2008 *Mast cells, myelin basic protein and substance P enhance T cell activation: inhibition by luteolin and implications for multiple sclerosis*. International Conference on Neural Signaling (Feb. 16-20, 2008; Pacific Grove, CA).
- 123) 2008 *Interstitial Cystitis: Bladder Pain and Beyond*. Lakeland Medica Center-CME lecture, (March 20, 2008; St. Joseph, MI).
- 124) 2008 *Mast cells, myelin basic protein and substance P enhance T cell activation: and multiple sclerosis*. Department of Immunology, University of Connecticut (April 17, 2008; Farmington, CT).

- 125) 2008 *Chair, Round Table Discussion on pharmacology teaching.* 5th Panhellenic Congress of Pharmacology (May 23-25, 2008; Athens, Greece).
- 126) 2008 *Rupatadine inhibits mediator secretion from human mast cells.* XXVII Congress of the European Academy of Allergology and Clinical Immunology (June 7-11, 2008; Barcelona, Spain).
- 127) 2008 *Human mast cells stimulate activated T cells, an effect increased by substance P and inhibited by the flavonoid luteolin.* XXVII Congress of the European Academy of Allergology and Clinical Immunology (June 7-11, 2008; Barcelona, Spain).
- 128) 2008 *Mast cell-T cell interactions in health and disease.* 5th International Innate Immunity Conference (June 21-26, 2008; Hania, Greece).
- 129) 2008 *Role of mast cells in cancer growth.* 3rd PanHellenic Forum on Oncology (July 6-7, 2008; Hania, Greece).
- 130) 2008 *Novel therapeutic targets for autism.* Defeat Autism Now (October 24-26, 2008; San Diego, CA).
- 131) 2008 *New aspects of regulation of mast cell activation.* 5th Balkan Congress of Alleregology and Clinical Immunology October 17-19, 2008; Thessaloniki, Greece).
- 132) 2008 *Autism, food intolerance and mast cells.* 5th Balkan Congress of Alleregology and Clinical Immunology October 17-19, 2008; Thessaloniki, Greece).
- 133) 2008 *Neuropeptide interactions in skin inflammation.* Attica Dermatologic Days IV (November 21-23, 2008; Athens, Greece).
- 134) 2008 *Role of mast cells in mesenteric traction syndrome.* T-NEMC Anesthesia Grand Rounds (Dec. 8, 2008).
- 135) 2009 *Perinatal mast cell activation and risk of autism.* Yale University Allergy and Clinical Immunology Grand Rounds (February 9, 2009; New Haven, CT).
- 136) 2009 *Mast cells disrupt the gut-blood-brain barriers and contribute to autism.* Autism One 2009 Conference (Chicago, IL; May 22-24, 2009).
- 137) 2009 *Rupatadine: mechanism of action and anti-inflammatory effects. Why multiple actions? The Pharmacologist's point of view.* II Multidisciplinary Symposium. (Guatemala; May 29, 2009).
- 138) 2009 *Novel antihistamines: Dual anti-mediator action and anti-inflammatory effects.* XIX World Congress of Oto-Rhino-Laryngology (São Paulo, Brazil; June 3, 2009).
- 139) 2009 *Role of mast cells in blood-brain-barrier permeability and autism.* Autism 1 Conference (Chicago, IL; May 22, 2009).
- 140) 2009. *Mastocytosis, allergic symptomatology and autism.* National Autism Association (Fort Lauderdale, FL; Nov. 12, 2009).
- 141) 2009 *IL-33 augments substance P-induced VEGF release from human mast cells and its expression is increased in psoriasis.* Attica Dermatologic Days V (November 25, 2009; Athens, Greece).
- 142) 2009 *Anti-inflammatory effects of rupatadine.* Regional Allergy Update (Nicosia, Cyprus; Dec.7, 2009).
- 143) 2009 *Anti-inflammatory actions of newer anti-histamines.* (Berlin, Germany; Dec. 17, 2009).
- 144) 2010 *Mast cells and mitochondria: culprits in the pathogenesis of allergy.* PanHellenic Allergy Conference (Athens, Greece; April 17, 2010).

- 145) 2010 “Allergic-like” symptoms, brain inflammation and autism: beneficial effect of a luteolin formulation (NeuroProtek).” Autism 1 Conference (Chicago, IL; May 28, 2010).
- 146) 2010 “Mast cells and mitochondria-culprits in the pathogenesis of autism: novel treatment.” National Autism Association Conference (Tampa, FL; November 12, 2010).
- 147) 2010 “Mast cells and mitochondria: culprits in inflammation and auto-immunity” UCLA. (Los Angeles: December 13, 2010).
- 148) 2010 “Mast cells: multitasking at the edge of wounds.” Wound Healing Conference (St. Thomas; December 10, 2010).
- 149) 2011 “The role of IL-9 and IL-33 in mast cell activation.” Brigham & Women’s Hospital-Harvard Medical School. (Boston, MA; February 8, 2011).
- 150) 2011 “Neuroinflammation and disruption of the gut-blood-brain barriers-benefits of NeuroProtek .” Autism One (The Westin Hotel, Lombard, IL; May 26, 2011)
- 151) 2011 “Neurotensin and extracellular mitochondrial DNA as potential biomarkers and novel treatment targets.” (The Westin Hotel, Lombard, IL; May 26, 2011)
- 152) 2011 “Aberrant inflammatory response in autism-Mast cell activation and the latest research in novel biomarkers and treatment directions”. International Autism Biomedical Conference (Queen Mary University of London’ June 18-19, 2011)
- 153) 2011 “Neurotensin and extracellular mitochondrial DNA as potential biomarkers and novel treatment targets..” New York Metro Chapter –National Autism Association (New York, NY; September 8, 2011)
- 153) 2011 “Neuroinflammation and disruption of the gut-blood-brain barriers-benefits of NeuroProtek .” New York Metro Chapter –National Autism Association (Westchester, NY; September 9, 2011)
- 154) 2011 “Neurotensin and extracellular mitochondrial DNA as potential biomarkers and novel treatment targets.” Autism Canada Foundation- Changing the course of autism conference. (Kitchener/Waterloo, Canada; October 14, 2011)
- 155) 2011 “Role of Mast cells in blood-brain-barrier permeability and beneficial effect of select flavonoids.” Interscience Conference on Multiple Sclerosis (Athens Greece; October 1 2011)
- 156) 2011 “Mast cells and mitochondria: culprits in the pathogenesis of inflammatory skin diseases.” Second Seminar in Dermatology Research (Heraklion, Crete; October 1 2011)
- 157) 2011 “Neurotensin and extracellular mitochondrial DNA as potential biomarkers and novel treatment targets.” Autism One/Spectrum Possibilities (St. Michael, Barbados; November 5 2011)
- 158) 2011 “Increased oxidative stress and immune dysregulation in Autism Spectrum Disorders.” National Autism Conference (St. Pete Beach, FL; November 13 2011)
- 159) 2012 “Comparison of Cromolyn, Quercetin and Luteolin in Human Mast Cell Inhibition.” Regional Mastocytosis Conference (National Jewish Health Main Campus, Denver, CO; May 5th, 2012).
- 160) 2012 “Novel Treatment Approaches for Autism.” The Massachusetts Chapter of TACA.org (Talk About Autism Now, Wrentham Senior Center, Wrentham, MA ; May 8, 2012).
- 161) 2012 “Can we block mast cell activation?” Regional Mastocytosis Conference (Edwardsville Library, Edwardsville, IL; May 5, 2012).

- 162) 2012 *“Can the peptide neurotensin connect the dots and serve as a novel target for autism therapy?”* Autism One (The Westin Lombard Yorktown Center, Lombard, IL; May 25, 2012).
- 163) 2012 *“Is there an intervention that combines anti-oxidant, anti-inflammatory, metal chelating, mitochondrial protective, and neuroprotective effects?”* Autism One (The Westin Lombard Yorktown Center, Lombard, IL; May 27, 2012).
- 164) 2012 *“Flavonoid combinations for cancer treatment.”* Emory University (Atlanta, GA; June 1, 2012).
- 165) 2012 *“How genes and environment contribute to brain inflammation and symptoms.”* Family Café (Hilton, Orlando, FL; June 15, 2012).
- 166) 2012 *“Novel Treatment Approaches to Autism: How genes and environment contribute to brain inflammation and symptoms.”* (West Palm Beach, FL;
- 167) 2012 *“Novel Treatment Approaches to Autism: How genes and environment contribute to brain inflammation and symptoms.”* Autism in Motion (Montreal, Canada; August 19, 2012).
- 168) 2012 *“Neuro-inflammatory actions of human mast cells and comparison of the inhibitory effects of ketotifen, cromolyn, quercetin and luteolin.”* (Cincinnati, OH; September 22, 2012).
- 170) 2012 *“Activation of mast cells by the unique target mTOR leads to neurological symptoms inhibited by luteolin.”* 18th Annual Conference of the Mastocytosis Society (Bellevue, WA; October 11-14, 2012).
- 171) 2012 *“Activation of mast cells and neuroglia leads to brain inflammation inhibited by luteolin-implications for treatment of Alzheimer’s disease and Autism.”* 8th Annual Conference of the European Nutraceutical Association (Munich, Germany: November 3, 2012).
- 172) 2012 *“Novel Treatment Approaches to Autism: How genes and environment contribute to brain inflammation and symptoms.”* National Autism Association (St. Petersburg, FL; November 9-11, 2012).
- 173) 2013 *“Neurotensin triggers brain inflammation blocked by liposomal luteolin-implications for the pathogenesis and treatment of autism.”* Tufts Medical Center (Boston, MA;
- 174) 2013 *“Innate Pathogens” causing focal brain inflammation.* Autism One (Chicago, IL; May 23, 2013).
- 175) 2013 *“A cell for all seasons: The mast cell.”* (West Roxbury VA Medical Center (West Roxbury, MA; June 3, 2013).
- 176) 2013 *“2013 “New autism treatments target: Innate pathogens causing brain inflammation-Cutting down autism by fighting brain immunity storms.”* ICare4Autism (New York, NY; June 6, 2013).
- 177) 2013 *“New autism treatments target: Innate pathogens causing brain inflammation.”* Family Café (Orlando, FL; June 7, 2013).
- 178) 2013 *“Fibromyalgia neuro-inflammatory findings point to new treatments.”* Family Café (Orlando, FL; June 7, 2013).
- 179) 2013 *“Mast Cell Disorders and Neurological Symptoms.”* The Mastocytosis Society Annual Meeting (Greenville, SC; Sep 26-29, 2013)
- 180) 2013 *“Mast Cells, Coronary Hypersensitivity, Kounis syndrome and Takotsubo Cardiomyopathy”* The Mastocytosis Society Annual Meeting (Greenville, SC; Sep 26-29, 2013)

- 181) 2013 “*Allergy of the Brain*” Medical Academy of Pediatric Special Needs Conference (MAPS) Clinician’s CME Training (Tampa, FL; Oct 3-5, 2013).
- 182) 2013 “*New Autism Treatments Target Pro-Inflammatory “Innate Pathogens”*”, Autism Avenue 2013 Regional “Possibilities and Potential” Autism/Asperger Conference and Expo (Greensboro, NC; Oct 28, 2013).
- 183) 2013 “*Could autism be related to brain inflammation?*” Fourth Annual Meeting for Health Prevention and Promotion-“Gazing at Children” (Syros, Greece; Nov 1-3, 2013).
- 184) 2013 “*Is autism allergy of the brain?*”, National Autism Association (St. Petersburg, FL; Nov 14-17, 2013).
- 185) 2014 “*Activated mast cells secrete “innate pathogens” causing focal brain inflammation inhibited by luteolin.*” Molecular Basis of Brain Diseases (Miami, FL; Jan 26, 2014).
- 186) 2014 “*New autism treatments target pro-inflammatory innate pathogens.*” SouthWestern “Across the Spectrum” Autism/Asperger Conference (Atlanta, GA; March 13-14, 2014).
- 187) 2014 “*The missing link in autoimmunity and autism*” Ninth International Congress on Autoimmunity (Nice, France; March 26-30, 2014).
- 188) 2014 “*Autism and brain immunity storms.*” Autism One 2014 (Chicago, IL; May 23, 2014).
- 189) 2014 “*Environmental and stress triggers of autism.*” IMMUNOe (Denver, CO; Aug 25, 2014)
- 190) 2014 “*Coronary mast cell activation, myocardial infarction and POTS.*” 20th Annual Meeting of the Mastocytosis Society (Rochester, MN; September 17, 2014).
- 191) 2014 “*Synergistic activation of mast cells by the cytokine IL-33 and neuropeptide substance P.*” 20th Annual Meeting of the Mastocytosis Society (Rochester, MN; September 17, 2014).
- 192) 2014 “*Implications of coronary mast cell activation.*” 20th Annual Meeting of the Mastocytosis Society (Rochester, MN; September 17, 2014).
- 193) 2014 “*Elevated serum stress hormone levels in children with autism predict response to treatment.*” Autism Education Summit (Dallas, TX; October 17, 2014).
- 194) 2014 “*Elevated serum stress hormones in children with autism and in “autistic” dogs.*” National Autism Association (St. Petersburg, FL; November 15, 2014).
- 195) 2015 “*Focal brain inflammation in multiple sclerosis and autism.*” First PanHellenic Interscience Congress on for pediatric Multiple Sclerosis (Athens, Greece; January 16-18, 2015).
- 196) 2015 “*Brain inflammation and autism.*” (Melbourne, Australia, April 27, 2015).
- 197) 2015 “*Brain fog and mastocytosis.*” Australasia Mastocytosis Society (Sydney, Australia; May 4, 2015).
- 198) 2015 “*The musical vs. the behavioral brain in autism.*” The Boston Conservatory of Music (Boston, MA; May 8-9, 2015).
- 199) 2015 “*Methoxyluteolin inhibits human mast cells and reduces skin inflammation.*” Annual Congress of the European Academy of Allergy and Clinical Immunology (Barcelona, Spain; June 6-10, 2015).

- 200) 2015 “An overview of mast cell disorders and inflammation.” TMS San Francisco Bay Area Meeting (San Francisco, CA; July 26, 2015).
- 201) 2015 “*Neurocognitive manifestations in mast cell disorders.*” TMS Annual Meeting (Washington, DC; August 14-15, 2015).
- 202) 2015 “*The cross-talk between the nervous system and the immune system.*” IgNS2015 (Washington, DC; September 18-20, 2015).
- 203) 2015 “*Objective biomarkers identify autism subgroup amenable to treatment.*” Autism Education Summit (Dallas, TX; September 26-28, 2015).