

Curriculum Vitae

Anita E. Ciarleglio

Biographical Sketch: Dr. Ciarleglio received her B.S. in pharmacy from St. Louis College of Pharmacy, and her Ph.D. in Pharmacology at St. Louis University School of Medicine. She is licensed as a registered pharmacist in Hawaii. She subsequently performed postdoctoral work at St. Louis and at the University of Miami School of Medicine. She has held many professional and instructional positions, notably conducting in-depth continuing education programs for pharmacists through Pacific Seminars Inc. and serving as an ambulatory care clinical pharmacist at Kaiser Permanente. Dr. Ciarleglio has instructed hundreds of students each semester through statewide distance-learning programs, as well as being highly active in several community education programs and pharmacy technology programs for the education of pharmacy technicians. She has been with the College of Pharmacy since February 2007, previous to acceptance of the inaugural class, and was instrumental in coordinating the UHH-COP curriculum. She has taught many didactic courses since then and has also established a practice site at Maui Memorial Medical Center in Acute Medicine where she cares for patients and mentors students in their Introductory and Advanced Pharmacy Practice Experiences. She has also developed the first Community Pharmacy Residency Program in the State of Hawaii, which is funded by a United States Department of Education grant for Applied Rural Science and Clinical Pharmacy Training, and is the current Residency Program Director. To date, five residents have completed the program. She also established and participates in a longitudinal rotation on medication safety in the elderly on Maui, under a USDA-funded program for Medication Safety Education for Elderly in Rural Areas. Recently Dr. Ciarleglio has become a co-investigator on a \$14 million federal grant from the Center for Medicare/Medicaid Services. This program, titled "Pharm2Pharm," is designed to improve care and reduce costs by impacting medication-related hospitalizations and Emergency Room visits for high-risk patients. She spoke about this unique program at the 2013 International Clinical Pharmacy Meeting.

Personal Data

Name: Anita E. Ciarleglio

Academic/Professional Positions

2009-2019 Developed and lectured more than 600 hours in core courses including: Integrated Therapeutics I, II, III and IV, Pharmacogenomics, Foundations of Therapeutics and Pathophysiology

Achieved Certification in Pharmacogenomics 2016

Achieved Certification as an Infectious Disease Pharmacist 2015

Developed a two week intensive Institutional Rotation for third year pharmacy students at Maui Memorial Medical Center during which students get their first exposure to the practice of Hospital Pharmacy and have precepted 90 students thus far

Became the first faculty member of the UHH COP to develop a Clinical Pharmacy Practice on the island of Maui in Acute Medicine at Maui Memorial Medical Center which is a 258 bed hospital serving the entire island of Maui; currently serve as APPE site director

Participated in development of Antibiotic Stewardship Program at Maui Memorial Medical Center and rounded with Infectious Disease Team

Developed relationships with Pharmacy Administration and Internal Medicine physicians and staff and became part of an inter-professional rounding team on the Internal Medicine Service

Became part of the Pharmacy and Therapeutics Committee

Became part of the Quality Improvement Team for Community Acquired Pneumonia and Acute Myocardial Infarction, which are Core Measures for the hospital and helped implement strategies to promote adherence to Guidelines for the Treatment of CAP; Core Measures in this area have improved significantly

Developed a relationship with and became part of the Cardiac Rehabilitation Team serving as the medication expert and patient educator

Developed a six-week Advanced Pharmacy Practice Experience in Acute Medicine for fourth year pharmacy students on clinical rotations in which students hone their patient-care skills and develop and monitor treatment plans

Contributed to Preceptor Development Training for hospital preceptors

Interviewed and evaluated student applicants for the Admissions Committee

Member of Search Committees for: Pharmaceutical Sciences Departmental Chairman, Clinical Education Coordinator, SIM Specialist, Pharmacy Practice Tenure-track Faculty

Co-investigator on the United States Department of Agriculture, National Institute of Food and Agriculture Rural Health and Safety Education Competitive Grants Program on Medication Safety Education for Elderly in Rural Areas award #2009-46100-06032; Principal Investigator – Karen Pellegrin, Ph.D. (\$331,254)

Participate in the United States Department of Education, Applied Rural Science and Clinical Pharmacy Training Program at the University of Hawaii at Hilo as the Residency Program Director for the Post-graduate Community Pharmacy Residency Program on Maui; Principal Investigator- John Pezzuto, Ph.D.; (\$1,500,000)

Developed under this grant the first Post-graduate Community Pharmacy Residency Program in Hawaii; applied for and achieved candidate status for ASHP/APhA Accreditation; Accreditation granted August 13, 2012

Successfully graduated five residents from the program

Received the University of Hawaii at Hilo College of Pharmacy Excellence in Teaching Award for Pharmacy Practice; elected by the Class of 2013

Participated in Medical Mission to American Samoa

May 2008 Promoted to Assistant Professor, Department of Pharmacy Practice, University of Hawaii at Hilo College of Pharmacy

2007-2008 Instructor, University of Hawaii at Hilo College of Pharmacy

Laid curricular groundwork for inaugural year of the College of Pharmacy by developing course descriptions, course content outline and syllabi for all first and second year courses prior to arrival of newly hired department chairs for Pharmacy Practice and Pharmaceutical Sciences

Developed, coordinated and taught all lectures in the four credit Medical Immunology course

Developed, coordinated and taught all lectures in the two credit Medical Genetics course

Developed pharmaceuticals lab and served as lab director for the Pharmaceuticals Drug Action I course (12 hours per week) which teaches students pharmacy compounding skills, aseptic IV preparation techniques and math skills necessary for preparing medications

Developed and taught fifteen hours of lecture in the Pathophysiology course (a 4 credit course)

Developed the concept and content and served as Course Coordinator for the two credit Culture and Interprofessional Health Care course

Created and lectured eleven hours in Integrated Therapeutics I on the treatment of thromboembolic disorders, stroke and peripheral vascular diseases

Developed a clinical pharmacy practice site at Bay Clinic Hilo and practiced three mornings per week on an inter-professional health care team providing patient care and educating first year pharmacy students for their Introductory Pharmacy Practice Experience or IPPE

Participated as a member of the Curriculum Committee, Education Committee, Communication Committee

Chaired the Search Committee for the Department of Pharmacy Practice which resulted in the hiring of three new tenure-track faculty

Served as faculty advisor to twelve first year pharmacy students
Precepted 90 students in Introductory Pharmacy Practice Experiences at Bay Clinics

2002-2006 Taught General Pharmacology for the University of Hawaii via a statewide distance-learning program for over 100 students per semester, developed with Nancy Johnson, head of the Nursing Department

Provided community education for Kaiser Permanente in the areas of Herbal products and vitamin supplements, Osteoporosis, Thyroid function, Women's Health

Provided updates on research and treatment for the Alzheimer's Association and the Parkinson's disease Association statewide

Taught Introduction to Pharmacy Technology for pharmacy technicians through Maui Community College

Participated in "Taking Control of Your Diabetes" yearly national program with lectures on the "Role of Vitamins, Herbs and Supplements in the Treatment of Diabetes"

Lectured for University of Hawaii Department of Nursing on Geriatric Pharmacology

Worked as a call-in Pharmacist for Kaiser Permanente in Hawaii for the Wailuku clinic, Lahaina clinic and the Kihei clinic

1997-2002 Worked full time as an Ambulatory Care Clinical Pharmacist at Kaiser Permanente in Wailuku Hawaii, responsible for Wailuku, Kihei and Lahaina clinics

Essential functions included:

1. Designing, recommending, monitoring and evaluating patient-tailored pharmacotherapy by:
 - a. collecting and organizing patient information needed to assure rational, safe therapy for patients

- b. recommending and reviewing lab tests to assess patient response to drug therapy
 - c. documenting patient medical histories
 - d. identifying medication therapy problems in patient's therapy
 - e. recommending pharmacotherapeutic regimens that meet goals established WITH and for the patient, integrating drug/disease information, current standards of practice, quality of life issues and pharmacoeconomic principles
 - f. recommending monitoring plans for patients that represent logical, safe and patient desired endpoints
 - g. utilizing patient interview and assessment skills, evidenced based guidelines and outcome measures to establish care protocols that provide patient centered care
 - h. modifying plans as necessary based on monitored data as well as patient wants and needs, and belief systems and values
 - i. documenting all activities in medical records or other patient databases or clinical information systems and providing timely results of outcome measures to the health care team
2. Providing patient-specific therapeutic consultations to other health care providers utilizing:
 - a. verbal and/or written consultations on pharmacotherapy and pharmacokinetics
 - b. pharmaceutical care plans for defined "high risk" patient populations
 3. Providing medication use education for patients, caregivers and healthcare staff by
 - a. designing education that meets patient and caregiver needs
 - b. using education techniques with documented efficacy to provide counseling to patients and caregivers
 - c. using effective strategies for communicating with patients who are non-English speaking or who are impaired by blindness, deafness, cognitive deficiency or who are illiterate
 - d. conducting group patient education programs as well as one on one counseling
 - e. developing appropriate patient education materials that are culturally sensitive
 - f. participating in lecture pr 3.3 s and skills certification for patients, providers and support staff at local level
 4. Providing concise, timely responses to drug information requests from healthcare providers and patients by:
 - a. identifying drug information needed
 - b. employing systematic, efficient and thorough procedure for retrieving drug information and evaluating it
 - c. formulating responses to requests based on literature analysis that meet the drug information need
 - d. following up on recommendations to assess their effectiveness and document their outcomes
 5. Performing drug regimen reviews as warranted
 6. Participating in medication management programs to promote cost-effective prescribing through provider and member education
 7. Ensuring continuity of care and optimal utilization of resources by collaborating with inpatient/outpatient pharmacists for follow up

8. Participating in promoting implementation of guidelines for disease management protocols in coordination with physicians, nurses and other health team members
9. Establishing relationships with physicians to partner on drug therapy issues using excellent communication and teamwork skills
10. Participating in education of pharmacy, nursing and other students
11. Participating in monitoring outcome measurements and quality improvement indicators and making appropriate adjustments to provide improved outcomes
12. Participating in quality improvement by helping to define processes and develop measures to monitor safety and appropriateness of therapy

Specific examples of above:

HEADED ANTICOAGULATION CLINIC FOR MAUI AND BIG ISLAND PATIENTS under the supervision of Cardiology physician partner Dr. Dennis Rowe and with a cardiology nurse partner. Certified by Kaiser by written examination and clinical oversight. Responsibilities included: ordering and interpreting lab INR results and adjusting warfarin dosing regimens accordingly. Educating patient and family members on anticoagulation, methods of monitoring, associated risks, dietary challenges, and drug/disease interactions. Interfacing with out-patient pharmacy to promote seamless care for new and chronic patients. Educating lab personnel and pharmacy personnel statewide on anticoagulation service, processes and outcome measurement. Measured outcomes including % in and out of desired range INRs, bleeding rates, clotting rates, patient satisfaction with service, ADRs, vitamin K administrations and hospital admissions as part of quarterly outcomes overview for Pharmacy and Therapeutics Committee. Participated in development of suggested changes in process to improve outcomes.

DEVELOPED THE FIRST "SECONDARY PREVENTION LIPID CLINIC" FOR KAISER IN HAWAII WITH CARDIOLOGY PHYSICIAN PARTNER DR. DENNIS ROWE. Developed selection process, monitoring parameters and outcomes measures for the clinic. Implemented the first pilot clinic with 300 secondary prevention patients which later became the standard for the statewide Kaiser lipid monitoring program. Evaluated lipid lowering agents 3.4 developed protocol for drug use decision tree. Instituted minimum standards of monitoring for all patients on lipid lowering medications and educated outpatient and inpatient pharmacy staff on their role in ensuring monitoring was performed by making "front line" lab interventions. Provided quarterly outcome report to Pharmacy and Therapeutics Committee including ADR data, numbers of patients achieving and maintaining goal LDLs, patient satisfaction, etc. Provided statewide education to Kaiser lab personnel, health care teams and pharmacy staff on the Guidelines for Prevention, Screening and Treating hyperlipidemia.

SERVED AS A MEMBER OF KAISER'S INTERDISCIPLINARY ASTHMA TEAM with physicians from Pulmonology, Allergy and Pediatrics as well as nurse and pharmacist asthma educators and case managers from all islands. Participated in development of Kaiser Hawaii's interpretation of the National Asthma Guidelines. Developed ways for front line nurses and pharmacists to help identify patients at risk (frequent beta 2 agonist use, asthma questionnaire) and refer them evaluation and potential case management, including an email service alerting physicians of high risk patients. Provided education on the adopted guidelines to Kaiser physicians and staff statewide. Helped determine team recommendations to Pharmacy and "Therapeutics Committee

regarding formulary positioning of medications and devices used in the treatment of asthma. Developed and measured outcomes for quarterly report to Pharmacy and Therapeutics Committee.

SERVED AS DIABETES EDUCATOR AND CASE-MANAGER for high risk (HgA1c > 8) type 2 diabetics on Maui. Provided patient education and monitoring. Worked with physicians to modify drug/insulin regimens for these patients. Trained patients in use of monitors and meds. Ordered follow-up labs. Reported outcomes to Regional Diabetes Team. Held monthly weekend group education programs for diabetics and their families with co-workers from nursing, nutrition services and endocrinology.

DEVELOPED KAISER MAUI'S CONGESTIVE HEART FAILURE CLINIC with cardiologist Dr. Dennis Rowe and Nurse Practitioner Jane Bartlett. Provided weekly monitoring of patients as well as daily telephone availability to ensure efficient and timely care and to improve patient quality of life. Helped maximize use of funds by replacing some physician visits with in-depth assessments, education and empathy to improve quality of life and improve outcomes such as perceived quality of life, fewer hospitalizations and maximization of drug therapy.

SERVED AS PHARMACIST PARTNER TO THE DEPARTMENT OF NEUROLOGY. Provided detailed drug information, literature review, and pharmacy financial prospective to physicians in the department to enable better understanding of current practices in management of migraine headache, multiple sclerosis, epilepsy and Alzheimer's disease and to allow for more efficient recommendations to Pharmacy and Therapeutics Committee on "placement" of medicines used to treat neurological disease and guidelines for use.

PARTNERED WITH NURSE PRACTITIONER JANE BARTLETT to review drug therapy for patients at Hale Makua nursing home. Performed case review and made recommendations for therapy and monitoring.

1995-1997 Voted Innovative Pharmacist of the Year for 1996 by the Hawaii Pharmacists Association

Participated in development and implementation of a Staged Diabetes Management program on Maui involving total patient care by a closely knit team of MDs, RNs, dieticians, and pharmacists

Conducted in depth continuing education programs for pharmacists as an ACPE approved provider through Pacific Seminars Incorporated, including the management of asthma, Type I and Type II diabetes mellitus and various infectious diseases

Worked part time as an Ambulatory Care Clinical Pharmacist at Kaiser Permanente and assisted management of a diabetes clinic, lipid clinic and anti-coagulation clinic

Participated in procuring, implementing and administering a State Grant in Maui County, the Drug Smart Seniors program, which involves educating seniors about prescription and non-prescription medications, their potential use and miss-use, as well as one on one counseling sessions regarding seniors' drug regimens

Worked as a Registered Pharmacist at Paradise Pharmacy in Pukalani, Maui

Licensed as a Registered Pharmacist by the Hawaii State Board of Pharmacy

1992-1994 Conducted numerous continuing education programs in pharmacology for medical personnel through Hennepin College, including in depth reviews of the treatment of

hypertension, cardiac arrhythmia, myocardial infarction, congestive heart failure, AIDS, diabetes, depression, schizophrenia, anxiety, asthma, arthritis, Alzheimer's disease and infectious diseases

Conducted training on Infectious Diseases and Modalities for Pharmacy Corporation of America

Conducted review of pharmacology for staff of Noran Neurological Clinic

1990 to 1992 Postdoctoral Fellow, Department of Pharmacology, University of Miami School of Medicine under the direction of Dr. William Lee Hearn (Department of Toxicology, Dade County Medical Examiner Office), Dr. Arthur Bassett. (Department of Pharmacology) University of Miami School of Medicine, and Dr. Donna Flynn, (Department of Pharmacology)

Work involved: a) examination of the effects of cocaine on the central nervous system, b) examination of cocaine related sudden death c) isolation and identification of cocaine and its metabolites from human blood and tissue using gas chromatography/mass spectroscopy and d) investigation of the toxicity of cocaethylene (a toxic compound formed as a result of the presence of cocaine and ethanol) e) studying the effects of prenatal cocaine exposure in rat brain f) brain receptor autoradiography as a tool to investigate and characterize sigma receptors in the human and primate brain g) maintenance of the human brain bank at University of Miami

Taught Pharmacology of Chemical Dependency as a required course for "Certified Addiction Professionals through the University of Miami School of Continuing Education

Taught Medical Pharmacology as an Adjunct Professor at Barry International University for the School of Podiatric Medicine; Course covered all areas of pharmacology including pharmacokinetics and mechanisms of drug action as well as all classes of drugs

Taught Medical Pharmacology and Advanced Medical Pharmacology to Graduate Nursing students at the University of Miami

Taught Pharmacology of Drug Dependency to Dade County Parole Officers

Conducted reviews for the National Medical Board Exam in the area of Pharmacology for local physicians

Lectured on Pharmacological Principles in a continuing education program for physicians at Mount Sinai Hospital in Miami, Florida

1989-1990 Postdoctoral Fellow with Thomas C. Westfall, Ph.D., Department of Pharmacology, St. Louis University School of Medicine

Teaching Assistant in Pharmacology for Physician Assistants

1983-1989 Granted Ph.D. degree in Pharmacology under Thomas C. Westfall, Ph.D., Professor and Chairman, Department of Pharmacology, St. Louis University School of Medicine

Dissertation research involved the investigation of Neuropeptide Y modulation of noradrenergic neurotransmission in the rat CNS, concurrent release of NPY and NE, and reciprocal receptor mediated modulation of the release of these substances

Pre-doctoral laboratory rotation with Vincent A. Chiappinelli, Ph.D., Professor, Department of Pharmacology

Work involved investigation of the binding characteristics of the neuronal nicotinic receptor antagonist, Kappa-bungarotoxin, to chick optic lobe and skeletal muscle

Pre-doctoral laboratory rotation with Margery C. Beinfeld, Ph.D., Professor, Department of Pharmacology

Work involved investigation of the neurochemistry of cholecystokinin in brain, pituitary and CSF

Included refinement of radioimmunoassay techniques and antibody development

Characterized levels of CCK in various tissues

1982-1983 Pharmaceutical sales representative for Hoescht-Roussel

1978-1982 Employed as a Registered Pharmacist at Barnes/Jewish/Childrens Hospital.

Responsible for all intravenous admixtures including hyperalimantations and investigative chemotherapeutic agents for the 1400 bed hospital

Provided drug information services for all personnel

St. Louis College of Pharmacy; B.S. degree in Pharmacy

Licensed as Registered Pharmacist by Missouri State Board of Pharmacy

Academic Honors and Organizations

Member Infectious Disease Society of America

Member American Society of Microbiologists

Preceptor of the Year Award- 2015

Program Chairman for American Heart Association "Go Red for Women" event 2012

Excellence in Teaching Award for Pharmacy Practice 2011

Innovative Pharmacist of the Year Award from Hawaii Pharmacists Association 1997

Member American Society of Consultant Pharmacists

Member Hawaii Pharmacists Association

Past President of Maui County Pharmacists Association

Member National Association of Retail Druggists

Member of the Society for Neuroscience

Member Kappa Epsilon Professional Sorority for Women in Pharmacy

Member of Board of Directors for the Mental Health Association of Maui

1990 NIH Postdoctoral Training Grant Award- University of Miami School of Medicine, Department of Pharmacology

1989 NIH Postdoctoral Training Grant Award- St. Louis University School of Medicine, Department of Pharmacology

Publications

Pellegrin, K, Lozano, A, Miyamura, J, Lynn, J, Krenk, L, Jolson-Oakes, S, Ciarleglio, A, McInnis T, Bairos, A, Gomez, L, Benitez-McCrary, M and Hanlon, A. Community-acquired

and hospital-acquired medication harm among older inpatients and impact of a state-wide medication management intervention. *BMJ Qual Saf.* 28(2):103-110. 2019.

Ciarleglio, AE and Ma, C. The Daniel K. Inouye College of Pharmacy Scripts: Precision medicine through the use of pharmacogenomics: current status and barriers to implementation. *Hawaii J Med Public Health.* 76(9):265-269. 2017

Pellegrin, KL., Krenk, L., Oakes, SJ., Ciarleglio, A., Lynn, J., McInnis, T., Gomez, L., McCrary, MB., Hanlon, A., Miyamura, J. Reductions in medication-related hospitalizations among older adults with medication management by hospital and community pharmacists: A quasi-experimental study. *J Am Geriatr Soc.* 65(1):212-219. 2016.

Pellegrin, KL., Miyamura, J., Taniguchi, R., Ciarleglio, AE., Barbato, A., Scott Holuby, R.. Using International Classification of Diseases Codes to Track Medication-Related Hospitalizations of Older Adults. *J Am Geriatr Soc.* 64:651-3. 2016

Holuby, RS., Pellegrin, KL., Barbato, A., Ciarleglio, A. Recruitment of rural healthcare professionals for live continuing education. *Med Educ Online.* 20:28958. 2015.

Ma, C., Tokumar, S., Goo, R., Ciarleglio, A. The Daniel K. Inouye College of Pharmacy Scripts: pharmacy school graduates continue training in postgraduate residency programs. *Hawaii J Med Public Health.* 74:185-190, 2015.

Pellegrin, K., Barbato, A., Holuby, S., Ciarleglio, A., and Taniguchi, R. Cost-effective Strategies for Rural Community Outreach, Hawaii, 2010-2011. *Prev Chronic Dis.* 11:E215, 2014.

Ciarleglio, A.E., Beinfeld, M.C. and Westfall, T.C. Pharmacological characterization of the release of neuropeptide Y-like-immunoreactivity from the rat hypothalamus. *Neuropharmacol.*, **32**: 819-825, 1993.

Hearn, W.L., Rose, S., Wagner, J., Ciarleglio, A. and Mash, D.C. Cocaethylene is more potent than cocaine in mediating lethality. *Pharm. Biochem. Behav.*, **39**: 531-533, 1991.

Westfall, T.C., Han, S-P, Knuepfer, M., Martin, J., Chen, X., Del Valle, K., Ciarleglio, A. and Naes, L. Neuropeptides in hypertension: Role of neuropeptide Y and calcitonin gene related peptide. *Br. J. Clin. Pharmacol.*, **30**: 75s-82s, 1990.

Westfall, T.C., Chen, S., Ciarleglio, A., Del Valle, K., Curfman-Falvey, M. and Naes, L. *In Vitro* effect of neuropeptide Y at the vascular neuroeffector junction. *Ann. N.Y. Acad. Sci.*, **611**: 145-155, 1990.

Henderson, K., Westfall, T.C., Han, S-P., Chen, X., Ciarleglio, A., Carpentier, S, Henderson, K., Knuepfer, M., Beinfeld, M.C. and Naes, L. Cardiovascular effects and modulation of noradrenergic neurotransmission following central and peripheral administration of neuropeptide Y. *Synapse*, **2**: 299-307, 1988.

Wolf, K.M., Ciarleglio, A.E. and Chiappinelli, V.A. Kappa-bungarotoxin: binding of a neuronal nicotinic receptor antagonist to chick optic lobe and skeletal muscle. *Brain Res.*, **439**: 249-258, 1988.

Beinfeld, M.C. and Ciarleglio, A. Neurochemistry of cholecystokinin (CCK) in brain, pituitary and cerebrospinal fluid. *Ann. N.Y. Acad. Sci.*, **448**: 44-52, 1985.

Abstracts

Pellegrin, K., and Ciarleglio, A. The "Pharm2Pharm" Model: Improving Care in Rural Hawaii. Presented as invited speakers at the annual meeting of the Arkansas Pharmacists Association, June, 2013.

Ornellas Han, T., Krenk, L. and Ciarleglio, A. Relationship between patient knowledge of therapeutic goals and medication adherence: a focus on diabetic patients in a rural population. Presented as an oral presentation at the Western States Residents Conference, May 2012.

Miyahira, E., Krenk, L., and Ciarleglio, A. Evaluation of the relationship between patient knowledge of diabetic goals and goal attainment: A focus on a Rural Population. Presented as an oral presentation at the Western States Residents Conference, May, 2012.

Mnatzaganian, C., Krenk, L., and Ciarleglio, A. Correlation between sugar cane burning and acute respiratory diseases on the island of Maui. Presented as an oral presentation at the Western States Residents Conference, May 2012.

Jolson, S., Baker, A., Krenk, L. and Ciarleglio, A. Relationship between literacy and medication adherence in rural patients. Presented as an oral presentation at the Western States Residents Conference, May, 2011.

Baker, A., Jolson, S., Krenk, L. and Ciarleglio, A. Relationship between patients' beliefs about medications and medication adherence in the rural population of Maui. Presented as an oral presentation at the Western States Residents Conference, May, 2011.

Ma, CSJ., Gomez, L., Ciarleglio, A., and Holuby, S. Pharmacy Mission to American Samoa as Experiential Elective Leads to Funding for APPE. American College of Clinical Pharmacists, 2009.

Mash, D.C., Ciarleglio, A.E., Tanis, D.C., Shrank, K.S., Augenstein, J.S., Rose, S., Hearn, W.L. and Stitt, F. Toxicology screens for cocaethylene in emergency department and trauma admissions associated with cocaine intoxication *Comm. Problems of Drug Dependence, Monograph Series*, 1991.

Ciarleglio, A.E. and Mash, D.C. Autoradiographic localization of putative sigma receptors in the primate and human brain *Society for Neuroscience Abstracts*, 16:1140, 1990.

Ciarleglio, A.E., Beinfeld, M.C. and Westfall, T.C. Release of neuropeptide Y-like immunoreactivity (NPY-LI) from the rat hypothalamus *Society for Neuroscience Abstracts*, 14:873, 1988.

Ciarleglio, A.E., Beinfeld, M.C. and Westfall, T.C. Neuropeptide Y modulation of noradrenergic transmission in the posterior hypothalamus of the rat *The Pharmacologist*, 29:128, 1987.

Ciarleglio, A.E., Beinfeld, M.C. and Westfall, T.C. Effect of neuropeptide Y on the release of 3H-norepinephrine from the anterior hypothalamus and nucleus of the solitary tract region of rats Society for Neuroscience Abstracts, 12:1006, 1986.

Chiappinelli, V.A., Wolf, K. and Ciarleglio, A. Kappa-bungarotoxin: binding of a neuronal nicotinic receptor probe to chick optic love and skeletal muscle Society for Neuroscience Abstracts, 11:92, 1985.