



UNC
COLLEGE OF
ARTS & SCIENCES

THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

DEPARTMENT OF BIOLOGY
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September 28, 2016
Administrative Board of the College of Arts and Sciences
Office of General Education
UNC-CH

Dear Colleagues,

Summer Science program in Nicosia, Island of Cyprus (Summer in Cyprus: Pre Med)

The Department of Biology and the Study Abroad Office are seeking your approval for a 5 week summer program in Nicosia to be available to UNCChapel Hill students commencing in the summer of 2017.

Rationale

Last year, the Department of Biology was approached by the University of Nicosia interested in establishing a partnership between the two universities. Emails were exchanged and information was shared about the Pre-Med Summer program in Cyprus. Drs. Elaine Yeh and Alain Laederach reviewed the academic content of the summer courses and then contacted the Study Abroad Office expressing the interest of adding this direct enroll program to the summer offerings.

More complete information on this program is available here:

<https://www.globalsemesters.com/programs/cyprus/summer-in-cyprus-pre-med>

Description

The summer in Cyprus: Pre Med program is a five week program which is offered through the organization Global Semesters at the University of Nicosia in conjunction with St George's University of London. The program is specifically for students who are interested in the medical profession and will allow them to become familiar with clinical settings while obtaining substantial exposure and experience in the medical field. The University of Nicosia provides the academic curriculum, faculty and facilities for this program. Classes are taught at the University of Nicosia's Medical School campus in Nicosia and students receive a University of Nicosia transcript upon successful completion of their coursework. The program also incorporates 6-7 days of guided excursions and site visits at which time students learn more about the history and culture of Cyprus.

Courses and Faculty

There are two courses offered during this 5 week session for a total of 7 credits. BIOL310: Special Topics in Clinical Anatomy and Skills (4 credit hours) and HSA 215A Management of Care (3 credit hours). Both courses are taught in English and the syllabi are available on the program website along with information on the instructor of each course. The anatomy course (BIOL 310) takes place in the cadaver lab at the University of Nicosia St. George's University of London Medical School. The University of Nicosia and St. George's, University of London partnered to bring medical education to Cyprus. The North American

study abroad students additionally practice clinical skills in the simulation hospital at the Medical School. It's a wonderful way for students to gain exposure to a medical school setting.

The HSA 215A course adds a layer of cultural understanding from a healthcare perspective, as it compares and contrasts healthcare systems, but also looks at cultural components of managing and providing care (example: How is "bad news" conveyed to families in the Mediterranean culture vs. families in northern Europe or the U.S.? How does culture play a role in how this is done?). The course also includes site visits to public and private hospitals and clinics around the country.

Sample faculty CVs and course syllabi are attached in appendices as well as the schedule for the 2017 summer program.

Academic Requirements and Credit

UNC-Chapel Hill students participating in this program will need to have a 2.75 GPA to be eligible, have second year status, and be in good academic standing. There will be no language requirement and no language courses are taught on this program.

TREQ credit will be awarded as long as the student receives a C or better in each course taken. The University of Nicosia will send an official transcript of all completed courses to the home institution.

Logistics, Health and Safety

Facilities

The University of Nicosia is the largest research university in Cyprus with over 15,000 students (including 1,000 international degree-seeking students). It has more than 200 faculty, over 80% of whom hold the rank of assistant professor or higher. It has globally ranked programs in medicine, international relations and international accounting.

All of the classroom buildings in Nicosia were built over the last decade and match modern American facilities in terms of design, comfort and information technology. The University of Nicosia is designed after the American semester model and uses US standards for grading, contact hours and credit hours. All University of Nicosia courses, for local or international students, are taught in English.

Housing

Students are housed in same sex apartments in residential areas either near the University of Nicosia campus or near the downtown shopping district of Nicosia. Please visit this link for detailed information on the housing options:

<https://www.globalsemesters.com/programs/cyprus/summer-in-cyprus-pre-med/housing#view>. Students will also receive a GSM cell phone.

Other activities

Students attend an orientation shortly after arrival where they are given information about the program, the University and the city. Various excursions are planned (covered in tuition and fees) and students are given advice on local activities and events. During these guided excursions students are given context about their host country and its culture and history. Students on the summer program visit 7 major cities in Cyprus, which showcase the country's 12,000 years of human history (ancient ruins, medieval castles, British colonial architecture, vast nature preserves, etc...).

Health and Safety

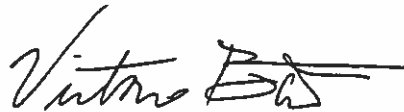
Students will be covered by the UNC required HTH insurance. Cyprus has a number of medical centers,

one of them, the American Medical Center, is just a few kilometers away from the University of Nicosia. Currently the State Department website does not have a travel warning for Cyprus. However, all European countries remain potentially vulnerable to attacks from transnational terrorist organizations and students/travelers need to remain vigilant and be aware of their surroundings. According to the State Department, the Crime rating is Medium for Cyprus. There is a specific warning to avoid "night clubs" (topless bars), as they reportedly employ women trafficked to Cyprus for sexual exploitation. These establishments can also present foreign patrons with grossly inflated bar tabs, and customers who refuse to pay may be threatened. Students will be automatically enrolled in the STEP (Smart Traveler Enrollment Program).

Conclusion

We hope this proposal has given a clear representation of the Summer in Cyprus: Pre Med program. We believe this program will be attractive to students who are planning on the Pre Med. We are happy to provide you with any additional information you might need to aid in your evaluations of this proposal.

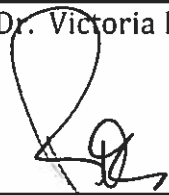
Sincerely,



9/28/16

Dr. Victoria Bautch, Chair of the Department of Biology

Date



10.4.16

Dr. Robert Miles, Associate Dean: Study Abroad and International Exchanges

Date

Appendices: course syllabi and Faculty CVs



UNIVERSITY OF NICOSIA
ΠΑΝΕΠΙΣΤΗΜΙΟ ΛΕΥΚΩΣΙΑΣ

Course Syllabus

Course: BIOL-310 Special Topics in Clinical Anatomy and Skills

Department: Medical School

Host Institution: University of Nicosia, Nicosia, Cyprus

Course Summary		
Course Code	Course Title	Recommended Credit Hours
BIOL-310	Special Topics in Clinical Anatomy & Skills	4
Subject	Contact Hours	Prerequisites
Health Sciences	63-65	1 Biology course
Department	Level of Course	Language of Instruction
Medical School	Upper-Division	English

Course Description

The clinical anatomy course gives a sound knowledge of the anatomy of the human body in relation to medicine and surgery. It also gives an opportunity to learn clinical skills related to anatomy.

Prerequisites (if applicable)

1 Biology course

Instructor Information

Prof. Edna Yamasaki Patrikiou (Anatomy and Neuroscience) has a Medical degree from her home country, Brazil, as well as a MSc and PhD in Neurosciences. She has completed postdoctoral training at the Departments of Neurology and Neurosurgery at the Massachusetts General Hospital/Harvard Medical School (Boston, MA), at the Department of Anatomy at the Virginia Medical School (Richmond, VA), before taking a faculty position at the Federal University of Rio de Janeiro where she worked for 13 years before moving to Cyprus. She is currently the Head of the Department of Life and Health Sciences and teaches anatomy and physiology, developmental biology and embryology and cellular neuroscience. Besides teaching, Prof. Yamasaki has an extensive experience in basic research, and is a member of the Senate and the Ethics Committee at the University of Nicosia.

Mr. Chad Schou (Laboratory Associate): Before joining the St. George's, University of London Medical Program at the University of Nicosia, Chad Schou worked as a biochemist for over 10 years in a variety of sectors, which included academic research, industrial pharmaceutical research, and governmental regulation and analysis. He brings his technical skills to the medical program where he facilitates the learning process in the anatomy laboratory by producing cadaveric prosections. In addition, he maintains the anatomical manikins and models used in the

clinical skills laboratory at the medical school. He immigrated to Cyprus with his wife from the United States, where he studied and worked.

Learning Outcomes

Here are the learning outcomes of the course:

Thorax 1 and 2

- Learn the anatomy of the upper respiratory tract including the nasal cavities, the paranasal sinuses, the pharynx and the larynx.
- Describe the surface markings of the pleura, the lungs and fissures.
- Learn the lower respiratory tract including the tracheobronchial tree, lungs and pleura.
- Begin to become familiar with chest radiographs.
- Relate the anatomy of the thorax to clinical examination.
- Understand the anatomy of the diaphragm and the mechanics of breathing.
- Describe the boundaries of the mediastinum and its constituent parts and content.
- Indicate the flow of blood through the heart.
- Describe the coronary circulation.
- Describe the principal arteries of the trunk and neck.
- Identify the surfaces of the heart and its chambers.
- Describe the closing and opening of the heart valves during the cardiac cycle.
- Indicate on a skeleton and a living subject the best sites for auscultation of the heart valves.
- Relate the anatomy of the heart to surface anatomy and to x-rays.
- Describe the major arteries and the territories they supply
- Locate clinically important superficial and deep veins.
- Define blood pressure.

Abdomen 1 and 2

- Describe the anatomy of the mouth, teeth, muscles of mastication, pharynx, oesophagus and stomach.
- Demonstrate the anatomy of the abdominal wall and inguinal region.
- Show an understanding of the anatomy of the midgut and hindgut, together with their blood supply, venous and lymphatic drainage.
- Show an understanding of the anatomy of the liver, gall bladder, pancreas and spleen.
- Describe the hepatic portal circulation.
- Identify the sites of the main porto-caval anastomoses.
- Describe the biliary tree.
- Understand the surgical importance of the hepatic segments of the liver.
- Identify the parts of the pancreas and describe its relations.

The male reproductive system

- Describe the anatomy of the male urogenital triangle and its contents.
- Describe the anatomy of the male reproductive tract and external genitalia.

The female reproductive system

- Describe the general disposition of the pelvic viscera in the female.
- Describe the bony pelvis and its musculature, identify the ischioanal passages and their contents.
- Describe the anatomy of the female urogenital triangle and its contents.

- Describe the anatomy of the female reproductive tract and external genitalia.
- Describe the anatomy of the breast.

The urinary tract – kidneys and ureters

- Describe the position, shape and size of the kidneys and relate this to their surface anatomy.
- Describe the features seen in a coronal section of the kidney.
- Describe the blood supply and venous drainage of the kidneys.
- Describe course and relations of the ureters, noting places of constriction.
- Describe the anatomy and relations of the urinary bladder in both sexes.
- Describe the course and relations of the urethra noting sex differences.

CNS 1 and 2

- Describe the bony spine and identify the different areas.
- Describe the joints and ligaments of the spine.
- Describe the principal sensory pathways.
- Describe the main regions of the CNS.
- Describe the anatomy of the spinal cord.
- Describe the major motor pathways.
- Predict the likely consequences of pathological conditions and trauma.
- Identify the major surface and internal features of the brainstem and describe its major connections.
- Describe the ventricular system.
- Describe the anatomy and functions of the cerebellum.
- Describe the clinical anatomy of the meninges.
- Identify functional regions on the surface and within the cerebral cortex.
- Predict the deficits likely to follow damage to each region.
- Identify the major sulci and gyri and the internal structures of the hemispheres.
- Describe the blood supply of the CNS.
- Give an outline of the autonomic nervous system.
- Describe the dermatomes.

Upper limb 1 and 2

- Describe the arterial supply, venous and lymph drainage of the upper limb.
- Point out the anatomical features of the scapula, the clavicle and the humerus.
- Describe the muscles responsible for movement of the shoulder girdle.
- Define the boundaries of the axilla and list its principal contents.
- Describe the brachial plexus and its main branches.
- Identify the lymph groups in the axilla and name the areas they drain.
- Revise the lymph drainage of the breast.
- Describe the muscles of the anterior and posterior compartments of the arm.
- Describe the innervation and actions of these muscles.
- Look at normal and abnormal radiographs of the upper limb.
- Describe the cubital fossa and its contents.
- Identify the muscles of the anterior and posterior compartments of the forearm.
- Describe the innervation and actions of these muscles.
- Identify the surface markings of the main arteries in the upper limb.
- Describe the movements that occur at all the joints of the upper limb.
- Describe the flexor retinaculum and the carpal tunnel.
- Name the carpal bones and the bones of the hand.

- Identify the muscles of the hand.
- Describe the innervation and actions of these muscles.

Lower limb 1 and 2

- Describe the main arteries, veins and lymphatics in the lower limb.
- Point out the main anatomical features of the hip joint and femur.
- Describe the structure of the hip joint.
- Identify the major nerves of the lower limb and describe the distribution.
- Give an overview of the compartments of the lower limb.
- Identify the muscles of the gluteal region and all compartments of the thigh and leg.
- Describe the innervation and actions of these muscles.
- Discuss the knee joint and movements.
- Identify the popliteal fossa, its boundaries and contents.
- Review the surface markings of the major arterial pulses in the lower limb.
- Discuss the ankle, subtalar and midtarsal joints and movements.

Neck and mouth

- Describe the triangles of the neck and all major contents.
- Revise the anatomy of the mouth.
- Discuss the actions of the muscles of the tongue and their nerve supply.
- Discuss the anatomy of the thyroid gland, its blood supply and major relations.
- Give a brief overview of the main glands in the body and discuss their functions.

Cranial nerves

- Describe the origin, course and distribution of the cranial nerves.
- Revise the main features of the bony skull and face.

Eye and ear

- Describe the orbital cavity and list its major contents.
- List the extrinsic muscles of the eye giving its functions and innervation.
- Describe the innervation of the eyeball.
- List the intrinsic muscles of the eye giving its functions and innervation.
- Describe the external, middle and inner part of the ear and its contents.
- Comment on the clinical anatomy of the middle ear in relation to infection.
- Discuss the clinical significance of the auditory tube.

Course Outline

Week 1

Lecture: Thorax, part 1

- Nose
- Pharynx
- Larynx
- Trachea
- Lungs

Clinical Skills

- Respiratory Exam
- Mouth Inspection

Lecture: Thorax, part 2

- Mediastinum
- Thoracic wall/respiration
- Heart

Clinical Skills

- Cardiovascular Exam
- ECG

Lecture: Abdomen, part 1

- Mouth to anal canal

Clinical Skills

- Abdomen exam

Lecture: Abdomen, part 2

- Liver
- Spleen
- Pancreas

Clinical Skills

- Abdomen exam
- Rectal exam

Week 2

Lecture: Male Reproductive System/Pelvis

- Male Reproductive organs
- Pelvis

Clinical Skills

- Pelvis – male and female

Lecture: Female Reproductive System/Pelvis

- Female Reproductive organs
- Pelvis

Clinical Skills

- Male pelvis/groin exam
- Female pelvis exam

Lecture: Kidneys and Ureters

- Kidneys
- Bladder
- Ureter

Clinical Skills

- Urine testing (ketones, protein, glucose)

Lecture: Central Nervous System, part 1

- Spinal cord
- Ascending/descending pathways
- Brain stem

Clinical Skills

- Dermatomes
- Eye/pupil exam
- Muscle strength exam

Week 3

Lecture: Central Nervous System, part 2

- Autonomic nervous system
- Brain

Clinical Skills

- Neurological exam

Lecture: Upper Limbs, part 1

- Chest wall to elbow

Clinical Skills

- Peripheral vascular exam (pulses, ABPI/Doppler)

Week 4

Lecture: Upper Limbs, part 2

- Forearm
- Hand

Clinical Skills

- Phlebotomy

Lecture: Lower Limbs, part 1

- Gluteal region to knee

Clinical Skills

- Hip exam

Lecture: Lower Limbs, part 2

- Knee to foot

Clinical Skills

- Knee exam (incl. ACL exam)

Lecture: Neck and Mouth

- Neck
- Mouth
- Thyroid gland

Clinical Skills

- Thyroid exam
- Glands

Week 5

Lecture: Cranial Nerves

- Cranial nerves

Clinical Skills

- Cranial nerves

Lecture: Eye and Ear

- Eye
- Ear

Clinical Skills

- Eye exam
- Ear exam

Lab Activities

Respiratory System

- Respiratory exam - inspection of chest, annotating any deformities, irregularities; observe symmetry and bilateral expansion; auscultation.

- Mouth inspection - colour, presence of lesions, general aspect of teeth

Thorax

- cardiovascular exam - identify sites to auscultate valves; auscultation
- simulation suite - auscultation of lungs (rattles, decreased vesicular murmur, wheezing); auscultation of heart (murmurs, 3rd and 4th sounds)

Abdomen

- abdomen exam - identify quadrants and location of viscera, percussion, palpation, auscultation of bowel sounds
- rectal exam - using male and female mannequins, perform digital rectal exam. Evaluation of normal and abnormal prostate.

Male Reproductive System

- male pelvis/groin exam - inspection and palpation

Female Reproductive System

- female pelvis exam - vaginal exam with speculum, how to obtain material for a PAP smear, digital exam. Evaluation of uterus and ovaries.

Kidney and ureters

- urine testing (dip sticks), interpreting the results

Central Nervous System

- Neurological exam - cognition, walking, reflexes
- dermatomes - identification and discussion on clinical relevance
- muscle strength exam - examining muscle strength, palpation, inspection

Upper limbs

- Peripheral vascular exam - check for pulses, observe pulse deficit, ABPI/Doppler to assess blood flow
- Phlebotomy - in models, students perform phlebotomy.

Lower limbs

- hip exam - inspection, palpation
- knee exam - inspection, palpation, testing for different ligaments

Neck and mouth

- thyroid exam - inspection, palpation
- glands - identify in models, discuss clinical aspects of endocrine disorders related to specific glands

Cranial nerves

- cranial nerves - identifying and testing

Eye and Ear

- eye exam
- - inspection, visual acuity and pupillary reflexes, fundoscopy
- ear exam
- - inspection, using an otoscope visualise ear canal, and tympanic membrane. Tuning fork tests for air and bone conduction

Readings and Resources

Recommended Reading

Moore and Agur, essential clinical anatomy. Lippincott, Williams & Wilkins.

Materials and Supplies

No additional materials or supplies are required for this course.

Global Learning Semesters

Course Syllabus

Course: HS-215A Management of Care

Department: Life & Health Sciences

Host Institution: University of Nicosia, Nicosia, Cyprus

Course Summary		
Course Code	Course Title	Recommended Credit Hours
HS-215A	Management of Care	3
Subject	Contact Hours	Prerequisites
Health Sciences	42-45	Health Major
Department	Level of Course	Language of Instruction
Life & Health Sciences	Lower-Division	English

Course Description

The course aims to cover the organizational and financial structure of the health care provision in Cyprus and to identify the role of politics in the development of health legislation and state welfare implementation provision. It will also address the developing relationship between the student and the health professions. The course explores further the developing role of the professionals within the health care system and emphasizes the importance of critical thinking in the management of patient in acute care settings. The format of the course is 6h/week lectures/group work, 3.3h/week learning experience and plus 3h/week site visits.

Prerequisites (if applicable)

Health Major

Instructor Information

Dr. Savoula Ghobrial is a professional, highly motivated and accomplished university lecturer with a successful career providing high quality education, leadership, guidance and support to students. Outstanding interpersonal skills, an expert presenter, facilitator and listener, acknowledged for being approachable, flexible and understanding with an excellent track record for easily building solid relationships with students and colleagues, based on integrity and trust and excellent knowledge of subject areas.

Dr. Ghobrial's areas of interest include cultural, ethical and professional issues related to nursing and patient care. Other areas of interest include curricula development and all aspect of acute and critical patient care and Health Education/Health Promotion.

Learning Outcomes

By the end of the course the student will:

- Be able to compare and contrast health systems in the U.S. with those in Cyprus
- Conceptualize the current practice of health professionals in the public and private sector in Cyprus
- Be able to explore the key influences on the development of contemporary health organizations.
- Be able to link current topical issues in nursing to the historical development of the profession.
- Identify the main policy issues since the 1960s.
- Explore reasons for current invisibility of nursing in policy making level.
- Discuss possible future directions and likely obstacles for health organizations.
- Explain the concept of accountability from a personal, professional and legal perspective.
- Understand the legal framework for management of care.
- Identify the concept of respect for others.

Course Outline

Topic Areas Covered

Contemporary Issues in Health Care Delivery

1. Evolution in Health care delivery
2. The changing role of the Nurse, in society and education
3. Legal aspects of Health Care
4. Nursing accountability vs. Medical responsibility

Organizational Issues in Health Care Delivery

6. Approaches to the measurement of health
7. Access to medical epidemiology, demographic and social indicator data within a given population
8. Link health related research, theory and care delivery
9. Attributes of culture and how these impact upon individual behaviours and beliefs.
10. The importance of nursing research for practice development.

Tasks and Assignments

Conferencing Topics

During the group work, the students will be discussing the fundamental knowledge and skills they must develop, with reference to specific examples and as to how this knowledge is applied to practice setting.

1. Identify how information on data bases relating to health and the health system can be used to network with other professionals
2. Developing of research awareness
3. Identify the biological, psychological and social factors which influence health, health choices and the delivery of care
4. The rights and duties of the individuals in relation to promoting personal health and complying with prescribed treatment.
5. Explain the health care professional role in relation to health care, demonstrating an awareness of the strengths and limitations of the nurse in relation to health care.
6. Identify the roles of the health professionals in the clinical setting

Research Paper

Students will write a research paper related to a chosen health topic

Learning Exercises

1. Discussion and presentations of case studies from students own clinical experiences in acute care setting
2. Using Evidence-based learning approaches the students present their chosen cases and share learning with peers.
3. Peer review

Professional Learning Activity (PLA), Attendance and Documentation (For Nursing Students only)

The students have to present at the end of the semester the completed forms of assigned PLA for the semester. The PLA should contain: the title of the activity accomplished, the place and time of the offering, the key points of the activity and description of the application to nursing management..

Readings and Resources**Recommended Reading (available in the Intercollege library)**

Johns. C. (2007) Become Reflective Practitioner 3rd edition: Willey-Blackwell

Dimond, B. (2002) Legal Aspects of Nursing. 3rd ed. London: Prentice-Hall

Doyal L (1995) What makes Women Sick: Gender and the Political Economy of Health. London Macmillian

Beauchamp, T. and Childress, J. (1994) Principles of Biomedical Ethics. 4th ed. Oxford. Oxford University Press

Materials and Supplies

No additional materials or supplies are required for this course.

Paul Johnson

Curriculum Vitae

Address in Cyprus
14, Marathonos Street,
Engomi, 2413.
Nicosia,
Cyprus.

Address in UK
4, Sunny Terrace,
Stanley.
County Durham.
DH9 8AW
England.

DOB: 12/1/59

Nationality: British

Cyprus Mobile: 97745185

E-mail: pjohnsonracing@aol.com

University Education:

Bachelor of Dental Surgery B.D.S. University of Newcastle UK with Silver Medal
1983

Degree in Photography and Digital Imaging F.D. University of Sunderland
UK 2009

Postgraduate Cert. in Photography University of Bolton
UK 2010

Postgraduate Dip. in Photography University of
Bolton UK 2010

Postgraduate Dip. in Endocrinology (with Merit) University of South Wales
UK 2015

MBBS St George's University of London May
15th 2015

MSc in Endocrinology University of South Wales UK (with Distinction) February
2016

Postgraduate Cert. in Anatomical Sciences (with Distinction) August 2016

Awaiting grading

Postgraduate Cert. in Medical Education University of Dundee UK
awaiting grading

Current Studies

Doctorate Thesis University of Newcastle UK "Risk factors for Multiple Sclerosis"

Publications

J Musculoskelet Neuronal Interact 2015; 15(4):375-377

Complex regional pain syndrome in a young female

S Psarelis · B D Wensley Richards · G Kourounis · P P Tabet · S E Weinberg · P Johnson

International Journal of Advances in Science Engineering and Technology, ISSN: 2321-

9009 Volume-4, Issue-1, Jan. 2016

Is the cadaver dead? Learning anatomy beyond the horizon

PRABODHA L B L, NANAYAKKARA B G, ILAYPERUMA I, SAMARA WICKRAMA M B, JOHNSON P.

Publications in preparation:

Association of Vitamin D deficiency in MS

Alcohol effects on the oral mucosa.

Anti-tumour necrosis factor alpha and induced Guillain-Barre syndrome (GBS).

Vitamin D and Obesity

Courses

Basic Life Support course 2011

British Resuscitation Council ILS one day course passed UK May 2015

Bursary awarded for :

The COST Action BM 1106 GENIEUR Training School

Heidelberg, March 11-13, 2016 Programme.

Current Employment:

Honorary Clinical Instructor in Clinical Anatomy at The University of Nicosia Medical School.

January 2016-present

Honorary lecturer and demonstrator in Anatomy University of Nicosia Medical School MD programme and the MBBS programme of St George's Hospital Medical School, University of London at the University of Nicosia Cyprus.

2015- Present

Past Employment:

General Dental Practice 1983-2011 UK. Undertaking all forms of family dental treatments.

Principle of five practices.

Employer of 15 dentists, hygienists, therapists and dental nurses.

Mentor for dentists registering with the General Dental Council from abroad and was involved with peer review and clinical audit.

Temporary Anatomy prosector St George's Hospital Medical School, University of London at the University of Nicosia Cyprus July-October 2012.

Teaching experience

Mentoring dentists from abroad.

Training of recently qualified dentists.

Teaching dental nurses in preparation for their nation exam.
Tutored small groups of students in anatomy and clinical skills University of Nicosia Medical School MBBS and MD6 courses 2015-present.

Presenting my own power points including "Seasonal Affective Disorder a Novel Solution" to a public health group.

The University of South Wales as an online module tutor for the Endocrinology course.

Provide questions for PasTest the online revision site.

One to one teaching of final year medical students in clinical skills and pharmacology.

Small group teaching of final year medical students in medicine and surgery for finals.

Teaching Communication Skills to CS year and T-year students 2016.

Teaching Clinical Skills to T-year students 2016.

Lecturing in Anatomy 2016 University of Nicosia Medical School MBBS and MD6 courses.

Lecturing in Biology University of Nicosia 3rd year BSc course. Embryology and development 2016.

Tutoring medical students in suturing and surgical skills University of Nicosia Medical School MBBS courses.

Prizes:

Student Clinician of The Year National Award for Clinical Research (all UK Dental Schools) 1982

Newcastle Dental School Silver Medal 1982.

Positions held:

Editor of The Newcastle Medical and Dental Gazette.

Editor of the British Dental Student Association Magazine.

Vice president of the British Dental Students Association (BDSA).

Memberships:

British Association of Clinical Anatomists, The Anatomical Society, Institute of Anatomical Sciences.

Poster presentations:

"Is The Cadaver Dead?" (a study of student's attitudes towards dissection) at The Winter Conference of British Association of Clinical Anatomists in Chelmsford England in December 2012.

"Dissection of the lower limb showing the sciatic nerve" prosection completed alone for The Institute of Anatomical Sciences meeting in Dublin 12/13th September 2013 competition. Highly commended.

Conferences Attended Recently (last 5 years)

3rd International Multi thematic Bio-Medical Congress 14th November Nicosia 2015.

Anatomical Society Winter Meeting
16—18 December 2013 Newcastle University Dental Hospital
Newcastle December 2013

Eastern Mediterranean Seminar on General Medicine for Physicians 23-24 November
2013 Limassol

The Winter Conference of British Association of Clinical Anatomists in Chelmsford
England in December 2012.

Pantheo Eye Annual Congress 27-29 April 2012 Limassol

Clinical Audit

General Dental Practice. Audit question:

Is there a quality standard for dental radiographs and how common are processing errors?

General Medical Practice. Audit question:

What are the levels of arterial risk and micro vascular risk in a cross section of diabetic and pre diabetic patients in primary care using HBA1C measurements?

Peer review

1. A review of materials in General Dental Practice.
2. A review of staff training in life support.

Other Work in progress:

I am currently working on a joint project with the Anatomy Department of The University of Ruhuna in Sri Lanka.

Charity memberships:

- 1.Newcastle and Gateshead Medical Volunteers providing orthopedic surgery in Erbil Iraq.
- 2.Aid to Burkina.
- 3.Mines Advisory Group Laos.
- 4.Volunteering at Kofinou Refugee Camp Cyprus.

Books published

“So Little Time To Play” A photo essay of working children in S.E.Asia. Published in hardback. Viewing preview at:

<http://www.blurb.com/b/931174-so-little-time-to-play>

Hobbies:

Photography. Mainly portraits and documentary photography. Seven exhibitions to date.

Video production. Painting in acrylics and oils.

Referees and references (on request)

Dr Roger Vaughan
Examiner and lecturer Royal College of Surgeons of England London. United Kingdom.
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Education:

- MD, School of Medicine, Federal Fluminense University, Niteroi, Rio de Janeiro, Brazil, November 1988
- MSc in Biophysics, Institute of Biophysics Carlos Chagas Filho, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil, September 1990
- PhD in Biophysics (Neurobiology), Institute of Biophysics Carlos Chagas Filho, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil, December 1994

Postdoctoral training:

- Massachusetts General Hospital/Harvard Medical School, Boston, Massachusetts, USA, 1990-1993
- Institute of Biophysics Carlos Chagas Filho, Federal University of Rio de Janeiro, Brazil, Jan-Dec 1995
- Department of Anatomy, Virginia Medical College, Richmond, Virginia, USA, Jan-March 1996
- Department of Chemistry, University of Cyprus, Nicosia, Cyprus, 1998-1999 (Special Scientist); 1999-2000 (Research Associate)
- Cyprus Institute of Neurology and Genetics, Nicosia, Cyprus, 1999-2002

Current Positions:

- Vice-Rector, Academic Affairs, University of Nicosia (2016-present)
- Chair, University of Nicosia Internal Quality Assurance Committee (2016-present)
- Professor, University of Nicosia (2014-present)
- Ambassador of Tourism for the Republic of Cyprus (2010-present)
- Editor-in-Chief – PANR eJournal – Physical Activity, Nutrition and Rehabilitation, University of Nicosia (2014-present)
- Vice-President, Cyprus Society for Clinical Nutrition and Metabolism (CySPEN) (2016-present)

Positions Held:

- Head, Department of Life and Health Sciences, University of Nicosia (2008-2016)
- Associate Professor, University of Nicosia (2007-2014)
- Faculty Representative – University of Nicosia Council (2012-2014)
- Faculty Representative – University of Nicosia Senate (2014-2016)
- Associate Professor, Institute of Biophysics Carlos Chagas Filho, Federal University of Rio de Janeiro (1996-2009)
- Part-time lecturer, Intercollege (2006-2007)
- Assistant Professor, Institute of Biophysics Carlos Chagas Filho, Federal University of Rio de Janeiro (February 1996-July 1996)

Areas of Concentration/ Research Interests:

- Development of the Central Nervous System
 - Morphological and electrophysiological aspects,
 - Plasticity,
 - Role of neurotransmitters, neuromodulators and pharmacological agents
- Developmental and Degenerative Diseases of the Central Nervous System
- Drugs of Abuse in the Developing Brain
- Aging
- Development of New Materials with Potential Biological Applications
- Environment and Health

Professional Associations:

- Society for Neuroscience (USA) member since 1989
- Brazilian Society for Neuroscience member since 1989
- IBRO (through the SFN, Hellenic and the Brazilian Societies for Neuroscience)
- AAAS (USA) member since 2008
- COST B30 – Neural regeneration and plasticity – Cypriot representative (March 2008-July 2010)
- Hellenic Society for Neuroscience member since 2010

Funding:

- Research grant from the State of Rio de Janeiro Funding Agency, R\$ 6000,00 - December 1996 to November 1997.
- Prize Luis A. Vianna - for Junior Faculty - R\$ 5000,00 - July 1996 to July 1997.

- Research grant from the State of Rio de Janeiro Funding Agency, R\$ 7.600,00 - February 1998 to January 1999.
- Research grant from the Brazilian National Council for Research, R\$ 12.000,00 - November 1997 to October 1998.
- Cyprus Research Promotion Foundation, Project title: "Development of Novel Polymers as Synthetic Vehicles for Gene Transfer", £ 27,000 (2002 - 2003), in collaboration with Dr. Costas Patrickios.
- Research grant from the State of Rio de Janeiro Funding Agency, R\$ 28.000,00, July 2004 to June 2006.
- Cyprus Research Promotion Foundation, Project title: "Climate change and public health: assessment of the effects of extreme weather and development of innovative prevention and mitigation strategies", €179,120 (2010-2012), Coordinator.
- Leonardo Da Vinci, Project title: "Medisigns", total grant € 299,250, amount allocated to Cyprus € 43,000 (2010-2012), CY coordinator.
- Cyprus Research Promotion Foundation, Project title: Characterization of Polymeric and Biological Systems using High-resolution Atomic Force Microscopy and Multi-angle Dynamic and Static Light Scattering, € 500,000 (2012-2015), Partner
- Leonardo da Vinci, Project title: "Advancing work safety for pest control workers" total grant € 396,855 (2013-2014), collaborator.
- Erasmus + project, Project acronym HP@SC, total grant € 446,034 (2014-2016), collaborator

Awards/Distinctions:

- Prize Luis A. Vianna - for Junior Faculty - R\$ 5000,00 - July 1996 to July 1997.
- European Language Label 2013 – awarded to the MEDISIGNS Project

Fellowships:

- CNPq of Brazil, Predoctoral Research Scholarship (1985-86; 1987-88)
- CNPq of Brazil, Graduate Research Fellowship (1989-90)
- Fight for Sight to Prevent Blindness, Postdoctoral fellowship (1990-91)
- Fogarty International Fellowship, Postdoctoral fellowship (1991-93)
- CNPq of Brazil, Graduate Research Fellowship (1994)
- CNPq of Brazil, Postdoctoral Research Fellowship (1995-1996)
- NEDO (Japan), Postdoctoral Research Fellowship (September 1998 - March 1999)
- Muscular Dystrophy Association (October 1999-July 2002)

Languages:

- Portuguese – mother tongue
- English – fluent
- Greek – fluent

Research & Publications

- Development and Plasticity of the Developing Central Nervous System
- Developmental and Degenerative Diseases of the Central Nervous System
- Drugs of Abuse in the Developing Brain
- Development of New Materials with Potential Biological Applications
- Public Health and Environment
- Deafness

Chapters in Books

- Ramoa, AS and Yamasaki, EN (1992). Mechanisms of dendritic tree development in mammalian retinal ganglion cells. In: The visual system from genesis to maturity. Lent R., Editor, Birkhäuser, Boston.
- Yamasaki, EN (2008). A Inovadora Imagem do Cerebro. Memoria Hoje, Vol I. Ciencias Biologicas e Ambientais. Ivanissevich A. and Videira, AAP editors, ICH Instituto Ciencia Hoje.

Journal Articles

RG Score: 27.32

h-index:12

h-index excluding self-citations: 12

Sum of the times cited: 515

Source: Researchgate.net

- 1- Brito, LSO; Yamasaki, EN; Paumgarten, FJR; Brito, GNO (1987). Continuous and discrete T-maze alternation in rats: Effects of intertrial and interrun intervals. *Braz. J. Med. Biol. Res.*; 20:125-135.
- 2- Ramoa, AS and Yamasaki, EN (1992). Mechanisms of dendritic tree development in mammalian retinal ganglion cells. In: The visual system from genesis to maturity. Lent R., Editor, Birkhäuser, Boston.
- 3- Yamasaki, EN and Ramoa, AS (1993). Dendritic remodelling of retinal ganglion cells during development of the rat. *J. Comp. Neurology*; 329:277-289.
- 4- Patrickios, CS and Yamasaki, EN (1995). Polypeptide amino acid composition and isoelectric point. II. Comparison between experiment and theory. *Analytical Biochemistry*, 231:82-91.
- 5- Ramoa, AS and Yamasaki, EN (1996). Transient retinal ganglion-cells in the developing rat are characterized by specific morphological properties. *J. Comp. Neurology*; 368(4):582-596.
- 6- Yamasaki, EN; Andrade da Costa, BLS; Barbosa, VD and Hokoç, JN (1997). Retinal ganglion cell depletion alters the phenotypic expression of GABA and GAD in the rat retina. *Eur. J. Neurosci.*, 9:1885-1890.

- 7- Patrickios, CS and **Yamasaki, EN** (1997). A correction to the calculation of the Gibbs free energy of adsorption for biomolecules in ion-exchange systems. *Biophysical Chemistry*, 69:219-220.
- 8- **Yamasaki, EN** (1997). Neurônio, a inovadora imagem do cérebro. *Ciência Hoje*, 23(134):68-69.
- 9- **Yamasaki, EN**; Krupnik, VE and Chun, LLY (1998). Developmental study of Müller cells in the rat retina using a new monoclonal antibody, RT10F7. *Neuroscience*, 85(2):627-636.
- 10- **Yamasaki, EN**; Barbosa, VD; De Mello, FG and Hokoç, JN (1999). *Int. J. Dev. Neurosci*; 17(3):201-213. GABAergic system in the developing mammalian retina: dual sources of GABA at early postnatal development.
- 11- Simmons, MR; **Yamasaki, EN** and Patrickios, CS (2000). *Macromolecules*, 33(8): 3176-3179. Cationic amphiphilic model networks: Synthesis by group transfer polymerization and characterization of the degree of swelling.
- 12- Simmons, MR; **Yamasaki, EN** and Patrickios, CS (2000). *Polymer*, 41(24):8523-9. Cationic homopolymer model networks and Star polymers: Synthesis by group transfer polymerization and characterization of the degree of swelling. Impact Factor: 3.829, Number of times cited: 38
- 13- Almeida, MFL; **Yamasaki, EN**; Guedes, RA and Hokoç, JN (2001). *Nutritional Neuroscience*;4::223-238. The GABAergic and cholinergic systems are differentially affected by postnatal malnutrition during the suckling period.
- 14- Vamvakaki, M.; **Yamasaki, EN**; Hadjiyannakou, S and Patrickios, CS (2001). *Macromol. Symp.*, 171:209-224. Characterization and Modeling of Hydrophilic Networks Synthesized by Group Transfer Polymerization.
- 15- Hadjiyiannakou, S; **Yamasaki, EN** and Patrickios, CS (2001). *Polymer*, 42:9205-9209. Randomly cross-linked homopolymer networks: synthesis by group transfer polymerization in solution and characterization of the aqueous degree of swelling.
- 16- de Almeida, OM; Gardino, PF; Loureiro dos Santos, NE; **Yamasaki, EN**; de Mello MCF; Hokoç, JN and de Mello, FG (2002). *Brain Research*;925(1):89-99. Opposite roles of GABA and excitatory amino acids on the control of GAD expression in cultured retinal cells.
- 17- **Yamasaki, EN** and Patrickios, CS (2003). *European Polymer Journal*. 39:609-616. Group Transfer Polymerization in the Bulk: Linear Polymers and Randomly Cross-Linked Networks.
- 18- Georgiou, TK; Vamvakaki, M; Patrickios, CS; **Yamasaki, EN**; Phylactou, LA (2004). *Biomacromolecules*. Nov-Dec;5(6):2221-9. Nanoscopic Cationic Methacrylate Star Homopolymers: Synthesis by Group Transfer Polymerization, Characterization and Evaluation as Transfection Reagents.
- 19- Kubrusly RCC, Ventura ALM, Reis RAM, Serra GCF, **Yamasaki EN**, Gardino PF, de Mello MCF and de Mello FG. (2007). *Neurochemistry International* 50(1):211-8. Norepinephrine acts as D₁-Dopaminergic agonist in the embryonic avian retina: Late expression of β 1-Adrenergic receptor shifts norepinephrine specificity in the adult tissue.
- 20- De Sampaio Schitine, C, Kubrusly, RC, De Melo Reis, RAM, **Yamasaki, EN**, de Mello, MCF and de Mello, FG (2007). *Neurotoxicology Research*; 12(2):145-53. GABA uptake by purified avian Muller glia cells in culture.
- 21- Isayama, RN, Leite, PEC, Lima, JPM, Uziel, D and **Yamasaki, EN**. (2009). *The Anatomic Record*, 292:1922-1939. Impact of ethanol on the developing GABAergic system. Special issue in Neural Degeneration and Plasticity.

- 22- Pohl-Guimaraes, F, Calaza, KC, **Yamasaki, EN**, Kubrusly, RCC and Reis, RAM (2010). Int J Dev Neurosci. 2010 Apr;28(2):189-94. Epub 2009 Nov 30. Ethanol increases GABA release in the embryonic avian retina.
- 23- Leite, PEC, Moraes, L, D'Elia, L, Pinheiro, DF, Stutz, B., Lagrota-Candido, J. **Yamasaki, EN** and Quirico-Santos, T (2010). Journal of Neuroimmunology, Oct8;227(1-2):44-51. Nicotinic acetylcholine receptor activation reduces skeletal muscle inflammation of mdx mice.
- 24- Stutz, B, Fleming, RL, de Mello, MCF, **Yamasaki, EN** and de Mello, FG (2011) Neurochem Int.;58(7):767-775. Exchange of extracellular glutamate by intracellular D-aspartate: The main mechanism of D-aspartate release in the avian retina.
- 25- Pafiti, KS, Patrickios, CS, Georgiou, TK, **Yamasaki, EN**, Mastroiannopoulos, NP, Phylactou, LA (2012). European Polymer Journal; 48:1422-1430. Cationic star polymer siRNA transfectants interconnected with a piperazine-based cationic cross-linker..
- 26- Konsoula, Z, Tsangari, H, Christou S, Georgiou, K, Ioannou, K, Kleanthous, S, Pashiardis, S, Pavlou, P, **Yamasaki, EN** (2013). Impact of Thermal Stress on Public Health in Cyprus. Proceedings of the 13th International Conference on Environmental Science and Technology (CEST2013), Reference number cest13_0425.
- 27- Tsangari, H., Paschalidou, A., Kassomenos, P., Konsoula, Z., Christou, S., Georgiou, K.E., Mesimeris, T., Vardoulakis, S., Heaviside, C.H., and **Yamasaki, E.N.** (2013), 'The effect of extreme weather on mortality in Cyprus: high temperatures vs. synoptic air mass types' (abstract), Special Issue for the 2013 Conference on Environment and Health, August 19-23, 2013, Basel, Switzerland, *Environmental Health Perspectives*, p. 125.
- 28- Tsangari, H., Konsoula, Z., Christou, S., Georgiou, K., and **Yamasaki, E** (2014). Accepted as a book chapter. Proceedings of SMTDA2014 International Conference. Modeling the relationship between temperature and daily mortality in Cyprus
- 29- Tsangari, H., Konsoula, Z., Christou, S., Georgiou, K. E., Ioannou, K., Mesimeris, T., Kleanthous, S., Pashiardis, S., Pavlou, P., Paschalidou, A., Kassomenos, P., Vardoulakis, S., Heaviside, C.H., and **Yamasaki, E.N.** (2015). Human mortality in Cyprus: the role of temperature and particulate air pollution, Regional Environmental Change, 19th April, Online first DOI 10.1007/s10113-015-0793-2
- 30- Tsangari, H, Heaviside, C, Vardoulakis, S, Paschalidou, AK, Georgiou, KE, **Yamasaki, EN** (2015). Health Impact Assessment for Mortality Associated with High Temperatures in Cyprus. Paper submitted to the 18th Mediterranean Electrotechnical Conference – MELECON 2016.
- 31- Tsangari, H, Paschalidou, A, Kassomenos, P, Konsoula, Z, Christou, S, Georgiou, KG, and **Yamasaki, EN** (2016). Science of Total Environment; 542:247-253. Extreme weather and air pollution effects on cardiovascular and respiratory hospital admissions in Cyprus.
- 32- Heaviside C, Tsangari H, Paschalidou A, Vardoulakis S, Kassomenos P, Georgiou KE, **Yamasaki EN** (2016) Heat-related mortality in Cyprus for current and future climate scenarios. *Sci Total Environ.* 2016 Nov 1;569-570:627-33. doi: 10.1016/j.scitotenv.2016.06.138. Epub 2016 Jul 1.
- 33- Tsangari, H., Paschalidou, A, Kassomenos, P, Konsoula, Z., Christou, S, Georgiou, KE, Mesimeris, T, Vardoulakis, S, Heaviside, CH, **Yamasaki, EN** (2016). The Effect of Extreme Weather on Mortality in Cyprus: High Temperatures Vs. Synoptic Air Mass Types. In preparation.
- 34- Duffy, E. and **Yamasaki, EN** (2016). Interaction between Medical Professionals and the Deaf in Cyprus: a pilot survey. In preparation.

Abstracts and poster presentation in conferences

- 1- **Yamasaki, EN**; Brito, LSO; Paumgarten, FJR; Brito, GNO (1985). The performance of contingently reinforced T-maze alternation by rats under different intertrial intervals. *Ciencia e Cultura*; 37 (suppl):911
- 2- Brito, LSO; Paumgarten, FJR; **Yamasaki, EN**; Brito, GNO (1985). Performance of working memory tasks by rats in a T-maze. *Braz. J. Med. Biol. Res.*;18:658.
- 3- Chimelli, L; Schuller, G; **Yamasaki, EN**; Menezes, DMF (1987). Cytomegalic inclusion disease (Biliary Atresia). XVI Congress of the Latin American Society of Pathology and the XVII Congress of the Brazilian Society of Pathologists, Salvador, BA, Brazil.
- 4- Chimelli, L; **Yamasaki, EN**; Menezes, DMF (1987). Brain lesions observed in Bronchopulmonary Displasia (Ventilator brain). XVI Congress of the Latin American Society of Pathology and the XVII Congress of the Brazilian Society of Pathologists, Salvador, BA, Brazil.
- 5- Chimelli, L; Hahn, MD; Barros, MC; **Yamasaki, EN**; Torres, W; Barbosa, CS (1988). "Neuropathology of AIDS: analysis of 53 cases". *Arquivos de Neuropsiquiatria*; 46(suppl):205.
- 6- Menezes, DMF; **Yamasaki, EN**; Chimelli, L (1989). Neuropathological findings in congenital syphilis. *Pediatric Pathology Abstracts*; 9:229.
- 7- Schuller, G; Menezes, DMF; Chimelli, L; **Yamasaki, EN** (1989). Oculo-Cerebro-Renal Syndrome (Lowe's disease). *Pediatric Pathology Abstracts*; 9:229.
- 8- **Yamasaki, EN**; Rocha, MS; Ramoa, AS (1989). Morphology of rat retinal ganglion cells (RGCs) during fetal and postnatal development. *Soc. Neurosci. Abstr.*;15:455.
- 9- **Yamasaki, EN** and Ramoa, AS (1990). Retinal ganglion cells: morphological and electrophysiological aspects during development. *Annals of the Brazilian Academy of Sciences*;62(2):212.
- 10- **Yamasaki, EN** and Ramoa, AS (1990). Dendritic development of abnormally projecting rat retinal ganglion cells (RGCs). *Soc. Neurosci. Abstr.*;16:334.
- 11- **Yamasaki, EN**; Schätz, CR and Frost, DO (1991). Morphology of hamster retinal ganglion cells. *Soc. Neurosci. Abstr.*; 17:1374.
- 12- **Yamasaki, EN** and Frost, DO (1992). Morphology of retinal ganglion cells in operated hamsters with novel retinal projections. *Soc. Neurosci. Abstr.*; 18:1313.
- 13- **Yamasaki, EN**; Krupnik, VE, Chang, Y and Chun, LLY (1993). A new monoclonal antibody (RT10F7) recognizes Müller cells in the adult and developing retina. *Soc. Neurosci. Abstr.*; 19:44.
- 14- Barbosa, VD; Costa, BLSA.; Hokoç, JN and **Yamasaki, EN** (1996). Células imunorreativas ao GABA na camada de células ganglionares do rato. FESBE, Caxambu, MG.
- 15- Almeida, MFL; **Yamasaki, EN** and Hokoç, JN (1996). Efeito da desnutrição precoce no tecido retiniano. FESBE, Caxambu, MG.
- 16- **Yamasaki, EN**; Costa, BLSA; Barbosa, VD and Hokoç, JN (1996). Retinal ganglion cell depletion increases the expression of GABA and GAD in the ganglion cell layer. *Soc. Neurosci. Abstr.*; 22:726.
- 17- **Yamasaki, EN**; Barbosa, VD and Hokoç, JN (1997). Developmental expression of GABA, GAD-65 and GAD-67 in the rat retina. *Soc. Neurosci. Abstr.*; 23:43.
- 18- Almeida, MFL; **Yamasaki, EN**; Guedes, RA and Hokoç, JN (1998). Malnutrition and neurotransmitter systems in the rat retina. *Soc. Neurosci. Abstr.*; 24:46.

- 19- Barbosa, VD; Hokoç, JN e **Yamasaki, EN** (1998). Fenótipos de neurotransmissores de células amácrinas. FESBE, XIII reunião anual, pag. 340.
- 20- Almeida, MFL; **Yamasaki, EN**; Guedes, RA and Hokoç, JN (1998). Efeito da desnutrição em sistemas de neurotransmissores na retina. FESBE, XIII reunião anual, pag. 339.
- 21- de Almeida, OM; Loureiro dos Santos, NE; Hokoç, JN; **Yamasaki, EN**; Gardino, PF, and de Mello, FG (2000). Regulation of Glutamic Acid Decarboxylase of Chick and Rat Retina Cells by GABA and Excitatory Amino Acids. Sessions of the Brazilian Academy of Sciences, Themes on Neurosciences; 72(3):438.
- 22- **Yamasaki, EN**; Everatt, L; Wood, MJA and Phylactou, LA (2001). A novel RNA targeting approach for the repair of the myotonic dystrophy defect. The third international Myotonic Dystrophy conference (IDMC-3), Kyoto, Japan.
- 23- Schitine, CS; **Yamasaki, EN**; Rumjanek, FD and De Mello, FG (2003). Regulação da expressão da descarboxilase do ácido glutâmico (GAD) em retina de ave: possível papel de GABA sobre o processo de tradução da enzima. FESBE, XVIII reunião anual.
- 24- Stutz, B; **Yamasaki, EN**; De Mello, FG and De Mello, MCF (2004). Liberação de aspartato: aumento da especificidade da sinalização glutamatérgica. FESBE, XIX, reunião anual.
- 25- Serra, GCF; Kubrusly, RCC; Ventura, ALM; **Yamasaki, EN**; Neuhaus-Oliveira, A; da Silva, RT; Gardino, PF; de Mello, MCF and de Mello, FG (2005). Inibição da via alternativa de síntese de catecolaminas em retinas embrionárias de aves aumenta a comunicação dopaminérgica no tecido retiniano adulto. FESBE, XX reunião anual
- 26- D'Elia, L, Stutz, B. Corrêa-Leite, PE, Quirico-Santos, T and **Yamasaki, EM** (2005). Possível envolvimento de receptores nicotínicos de acetilcolina e glutamatérgicos do tipo NMDA na fisiopatologia da degeneração muscular na Distrofia Muscular de Duchenne. FESBE, XX reunião anual.
- 27- Guimarães, FP, D'Elia, L, **Yamasaki, EN** and Reis RAM (2005). Aumento da liberação de [3H] GABA e da expressão da GAD em retinas de embriões de pinto tratadas cronicamente com etanol. FESBE, XX reunião anual.
- 28- Schitine, CS, de Mello, FG and **Yamasaki, EN** (2005). Expressão do fenótipo GABAérgico em células gliais. FESBE, XX reunião anual.
- 29- Stutz, B, Fleming, RL, de Mello, FG, de Mello, MCF and **Yamasaki, EN** (2005). Sinalização aspartérgica em retinas de aves. FESBE, XX reunião anual.
- 30- Georgiou, TK, **Yamasaki, EN**, Vamvakaki, M, Patrickios, CS (2006). Cationic hydrophilic homo and co-polymer stars: synthesis, characterization and evaluation as transfection reagents. 231st National Meeting of the American Chemical Society, Atlanta GA, USA.
- 31- Leite, PEC, D'Elia, L, Pinheiro, DF, Lagrota-Candido, J, **Yamasaki, EN**, Quirico-Santos, T. (2006). Role of AchR alpha7 in the regulation of TNF alpha and metalloproteinases in skeletal muscle of mdx mice, FESBE, XXI annual meeting.
- 32- Leite, PEC, D'Elia, L, Pinheiro, DF, **Yamasaki, EN**, Quirico-Santos, T. (2006). Involvement of AChR alpha7-2 in the regulation of inflammation in skeletal muscle of MDX mice. In: XXXI Meeting of the Brazilian Society for Immunology, 2006, Búzios - RJ. XXXI Meeting of the Brazilian Society for Immunology, 2006.
- 33- Leite, PEC, D'Elia, L, Pinheiro, DF, **Yamasaki, EN** and Quirico-Santos, T. (2006). Involvement of AChR alpha7-2 in the regulation of inflammation in skeletal muscle of MDX mice, FESBE XXI annual meeting.
- 34- Leite, PEC, Moraes, L, D'Elia, L, Pinheiro, DF, Stutz, B, Lagrota-Candido, J, **Yamasaki, EN** and Quirico-Santos, T (2007). Possible role for the cholinergic anti-inflammatory pathway in the muscular lesion of mdx dystrophic mice, FESBE, XXII annual meeting.

- 35- Pohl-Guimaraes, F, Calaza KC, **Yamasaki, EN**, Kubrusly, RCC and Reis, RAM (2009). Ethanol modulates GABA release in the avian embryonic retina. 32nd Annual Scientific Meeting of the Research Society on Alcoholism. Alcoholism – clinical and experimental research; 33(6):165A-165A. Impact Factor: 3.468
- 36- Pohl-Guimaraes, F, da Costa Calaza, K, **Yamasaki, EN**, Kubrusly, RCC and Reis, RAM (2010). Ethanol increases GABA release in the embryonic avian retina. COST B30 meeting (17-19th June, Carmona, Spain).
- 37- Georgiou, TK, Ward, MA, Knight, P, Rikkou, MD, Vamvakaki, M, **Yamasaki, EN**, Phylactou, LA, Patrickios, CS (2010). Cationic star homo- and co-polymer for gene delivery. 3rd International Symposium Cellular Delivery of Therapeutic Macromolecules (26-29th June, Cardiff, UK), Drug Discovery Today; 15(23-24):1104-1104. Impact Factor: 6.442
- 38- Freitas, AP; Araujo, EG, de Carvalho, RP, Ferreira, D, **Yamasaki, EN** and Kubrusly, RCC (2010). Caffeine modulates excitatory amino acid transport in the developing rat retina. Society for Neuroscience Abstracts (USA) E35 744.8.
- 39- Cruz, RAS, Lima, JP, **Yamasaki, EN** and Uziel, D (2010). Impact of short-term ethanol exposure in the proliferation of pallial and subpallial progenitors. Society for Neuroscience Abstracts (USA) KK2 473.22.
- 40- **Yamasaki, EN** (2010). Abstract and Talk entitled “Maternal ingestion of ethanol and its effects on the developing fetal brain”. 6th Cyprus Dietetic and Nutrition Association (CyDNA) Conference with International Participation and Exhibition with the theme “Life Cycle Nutrition”, Nicosia, Cyprus 23-26th September.
- 41- **Yamasaki Patrikiou, E** (2011). Abstract and Talk entitled: Climate Change and Public Health: Assessment of the effects of extreme weather and development of innovative prevention and mitigation strategies. Workshop on Adaptation to the Climate Change, organized by the Environmental Service, Ministry of Agriculture, Natural Resources and Environment, November 2-3, 2011.
- 42- **Yamasaki Patrikiou, E** (2012). Abstract and Talk entitled: Caffeine and Cognitive Function. 7th Cyprus Dietetic and Nutrition Association Conference with International Participation with the theme: Diet Therapy: Nutrition throughout the field of healthcare. Nicosia, Cyprus 29 Nov-2 December.
- 43- **Yamasaki Patrikiou, E** (2013). Talk entitled: Public Health and Environment. One-day conference entitled “Επεξεργασία και Επαναχρησιμοποίηση Λυμάτων και Άλλων Αποβλήτων στην Κύπρο”, Jan 23, Nicosia, Cyprus.
- 44- Konsoula, Z, Tsangari, H, Christou S, Georgiou, K, Ioannou, K, Kleanthous. S, Pashiardis, S, Pavlou, P, **Yamasaki-Patrikiou, E** (2013) Impact of Thermal Stress on Public Health in Cyprus. CEST 5-7 September, 2013, Athens Greece.
- 45- Tsangari, H., Paschalidou, A, Kassomenos, P, Konsoula, Z., Christou, S, Georgiou, KE, Mesimeris, T, Vardoulakis, S, Heaviside, CH, **Yamasaki, EN** (2013). The Effect of Extreme Weather on Mortality in Cyprus: High Temperatures Vs. Synoptic Air Mass Types. Conference on Environment and Health – Bridging South, North, East and West. Basel, Switzerland 19-23 August, 2013.
- 46- Tsangari, H., Konsoula, Z., Christou, S., Georgiou, K. E., Ioannou, K., Mesimeris, T., Kleanthous, S., Pashiardis, S., Pavlou, P., Paschalidou, A., Kassomenos, P., Vardoulakis, S., Heaviside, C.H., and **Yamasaki, E.N.** (2014). ADAPTtoCLIMATE Conference 2014. The role of air pollution as a potential confounder of the association between temperature and mortality in Cyprus.
- 47- Tsangari, H., Konsoula, Z., Christou, S., Georgiou, K. E., Ioannou, K., Mesimeris, T., Kleanthous, S., Pashiardis, S., Pavlou, P., Paschalidou, A., Kassomenos, P., Vardoulakis, S., Heaviside, C.H., and **Yamasaki, E.N.** The Mediterranean Cities 2014. The Adaptation

Strategies to Global Environmental Change in the Mediterranean City and the Role of Global Earth Observations Conference. Health and Climate Change in Cyprus: the CYPHEW project.

- 48- Tsangari, H. Z. Konsoula, S. Christou, K. E. Georgiou, and Yamasaki, EN (2014). 3rd Stochastic Modeling Techniques and Data Analysis International Conference. Lisbon, Portugal, 11-14 June 2014. Modeling the relationship between temperature and daily mortality in Cyprus.
- 49- Violari, E and Yamasaki, E.N. (2014). Annual Meeting of the Society for Neuroscience USA, Nov 15-19th 2014, Washington, D.C. Effects of Phytoestrogen Treatment on the GABAergic System in the Retina of Ovariectomized Mice.

Scientific magazines

- Yamasaki, EN (1997). Neurônio, a inovadora imagem do cérebro. *Ciência Hoje*, 23(134):68-69.
- de Almeida, OM; Loureiro dos Santos, NE; Hokoç, JN; Yamasaki, EN; Gardino, PF, and de Mello, FG (2000). Regulation of Glutamic Acid Decarboxylase of Chick and Rat Retina Cells by GABA and Excitatory Amino Acids. *Sessions of the Brazilian Academy of Sciences, Themes on Neurosciences*; 72(3):438.
- Georgiou, TK, Ward, MA, Knight, P, Rikkou, MD, Vamvakaki, M, Yamasaki, EN, Phylactou, LA, Patrickios, CS (2010). Cationic star homo- and co-polymer for gene delivery. 3rd International Symposium Cellular Delivery of Therapeutic Macromolecules (26-29th June, Cardiff, UK), *Drug Discovery Today*; 15(23-24):1104-1104.

Reviewer

- Developmental Brain Research
- Brazilian Journal of Medical and Biological Sciences

Collaborations

- Dr. Daniela Uziel, Department of Anatomy, Federal University of Rio de Janeiro. Project: Effects of ethanol in the developing nervous system. Co-supervision of 2 graduate students. Completed.
- Dr. Thereza Quirico dos Santos, Laboratory of Neuroimmunology, Institute of Biology, Federal Fluminense University, Rio de Janeiro. Project: Involvement of acetylcholine and glutamate receptors in the physiopathology of Duchenne Muscular Dystrophy. Co-supervision of 1 graduate student (completed).
- Dr. Therese M. Jay, Research Director at INSERM, INSERM U 796 - University Paris Descartes, Pathophysiology of Psychiatric disorders. Project: Animal model of schizophrenia, GABAergic aspects. 2009-2010
- Dr. Luis Martinez Millan – University of the Basque Country. Project: Animal model of schizophrenia, GABAergic aspects. 2009-2010
- Dr. Regina Celia Cussa Kubrusly, Department of Physiology and Pharmacology, Federal Fluminense University. Project: Neurochemical aspects of brain development.

- Dr Reihard Schliebs – University of Leipzig, Germany. Project: Aging in Health
- Dr Anastasia Paschalidou – Democritus University of Thrace, Greece. Project: CYPHEW
- Dr Pavlos Kassomenos – University of Ioannina, Greece. Project: CYPHEW
- Dr Sotiris Vardoulakis – UK Health Protection Agency. Project CYPHEW
- Dr Theodoulos Mesimeris and Dr Kyriaki Ioannou – Department of Environment, Ministry of Agriculture, Natural Resources and Environment, Cyprus. Project CYPHEW
- Dr Costas Patrickios – University of Cyprus. Project: Characterization of Polymeric and Biological Systems using High-resolution Atomic Force Microscopy and Multi-angle Dynamic and Static Light Scattering, RPF funded 2011-2013.
- Dr Lorraine Leeson – Centre for Deaf Studies, Trinity College Dublin, Ireland. Project: Medisigns.

Experience:

Administrative

- Head of Department, Department of Life and Health Sciences, School of Sciences, University of Nicosia - April 2008 – March 2016
- Faculty Ranking Committee, School of Sciences, University of Nicosia – April 2008- March 2016
- Faculty Assessment Committee, School of Sciences, University of Nicosia – April 2008 – March 2016
- Ethics Committee, University of Nicosia – February 2009 – July 2011
- Ethics Committee, University of Nicosia, 2013 – present
- Steering committee of the DNA Registry and Archive for Biological Materials – Chairperson, June 2009 – present
- Acting Coordinator
 - Pharmacy program (December 2012 - September 2013),
 - Physiotherapy program (September-October 2013)

Management of Grants and Prizes:

- Research grant from the State of Rio de Janeiro Funding Agency, R\$ 6000,00 - December 1996 to November 1997.
- Prize Luis A. Vianna - for Junior Faculty - R\$ 5000,00 - July 1996 to July 1997.
- Research grant from the State of Rio de Janeiro Funding Agency, R\$ 7.600,00 - February 1998 to January 1999.
- Research grant from the Brazilian National Council for Research, R\$ 12.000,00 - November 1997 to October 1998.
- Cyprus Research Promotion Foundation, Project title: "Development of Novel Polymers as Synthetic Vehicles for Gene Transfer". £ 27,000 (2002 - 2003), in collaboration with Dr. Costas Patrickios (principal investigator) at the UCY.

- Research grant from the State of Rio de Janeiro Funding Agency, R\$ 28.000.00, July 2004 to June 2006.
- Cyprus Research Promotion Foundation, Project title: "Climate change and public health: assessment of the effects of extreme weather and development of innovative prevention and mitigation strategies", €179,120 (2010-2012), Coordinator.
- Leonardo Da Vinci, Project title: "Medisigns", total grant € 299,250, amount allocated to Cyprus € 43,000 (2010-2012), CY coordinator.
- Cyprus Research Promotion Foundation, Project title: "Characterization of polymeric and biological systems using high-resolution atomic force microscopy and multi-angle dynamic and static light scattering", € 500.000 (2012-2014), Infrastructure grant, collaborator
- Leonardo da Vinci, Project title: "Advancing work safety for pest control workers" total grant € 396,855 (2013-2014), collaborator.

Participation in Committees:

- 9 MSc thesis committees
- 3 PhD thesis committees
- Committee panel member for an Associate professor position at the Department of Physiology and Pharmacology at the Federal Fluminense University, August 2004.
- Committee panel member for full-time and part-time faculty positions at the Department of Life and Health Sciences at the University of Nicosia, since 2007.
- Ethics Committee, University of Nicosia, 2009-2011, 2013 – present
- Organizing committee Intensive Care Forum 2010
- Steering Committee, chairperson, DNA Registry and Archive for Biological Material, since 2009
- Ethics Committee, University of Nicosia, 2013 – present
- Steering committee for Health in a National project (EU funded Life + programme) entitled Development of a National Strategy for Adaptation to Climate Change Adverse Impacts in Cyprus (CYADAPT) 2010-2014.
- Scientific Committee, International Conference AdaptToClimate (<http://adapttoclimate.uest.gr/index.php/committees/scientific-committee>), March 2014.

Participation in Thesis Committees:

- B.Sc. monography of Stevens Kastrup Rehen, Federal University of Rio de Janeiro, August 1994.
- M.Sc. thesis revisor of Antônio Marcos Mello Moraes, Institute of Biophysics Carlos Chagas Filho, UFRJ, November 1996.
- M.Sc. thesis revisor of Paula Campello da Costa, Institute of Biophysics Carlos Chagas Filho, UFRJ, April 1997.
- Ph.D. thesis committee of Maria Fernanda Larcher de Almeida, Institute of Biophysics Carlos Chagas Filho, UFRJ, June 2002.
- M.Sc. thesis committee of Maria Cristina Salimena, Institute of Biology. Federal Fluminense University, June 2003.

- Ph.D. thesis committee of Nara Mazarakis Rubim, Institute of Biophysics Carlos Chagas Filho, UFRJ, July 2003.
- Ph.D. thesis revisor of Antônio Marcos Mello Moraes, Institute of Biophysics Carlos Chagas Filho, UFRJ, July 2003.
- M.Sc. thesis committee of Luciana A. Couto, Program in Morphology, Institute of Biological Sciences, UFRJ, December, 2003.
- Associate Professor position committee at the Department of Physiology and Pharmacology at the Federal Fluminense University, August 2004.
- M.Sc. thesis committee of Cristiane Bani Correa, 2004, Program in Neuroimmunology, Institute of Biology, UFF, 2005.
- M.Sc. thesis committee of Anna Lucia Rocha China Leal, Program in Neuroimmunology, Institute of Biology, UFF, 2005.
- M.Sc. thesis committee of Mona Lisa Leal Ferreira, Institute of Biophysics Carlos Chagas Filho, UFRJ, 2005
- M.Sc. thesis committee of Brian Njaine de Anchieta Ramos, Institute of Biophysics Carlos Chagas Filho, UFRJ, 2005.
- M.Sc. thesis committee of Camilla Zaverucha do Valle, Institute of Biophysics Carlos Chagas Filho, UFRJ, 2006.

Advisory

- Graduate Students:
 - Maria Fernanda Larcher de Almeida (MSc program, co-supervisor, 1999)
 - Paulo Emilio Corrêa-Leite (MSc program, co-supervisor, 2007)
 - Bernardo Stutz Xavier (MSc program, supervisor, 2007)
 - Clarissa de Sampaio Schitine (MSc program, supervisor, 2007)
 - Ricardo Noboro Isayama (Ph.D program, co-supervisor, 2008)
 - Jean Pierre Mendes Lima (MSc program, co-supervisor, 2008)
 - Antonis Stylianides (PhD program, main supervisor, 2016 –)
- Undergraduate students:
 - Valéria Destefani Barbosa (Medicine)
 - Livia D'Elia (Physiotherapy)
 - Leandro de Oliveira Molina (Physiotherapy)
 - Douglas Vendas Faget (Biomedicine)
 - Samantha Alegria (Physiotherapy)
 - Clarissa de Sampaio Schitine (Biomedicine)
 - Bernardo Stutz Xavier (Biomedicine)
 - Ana Carolina Feijão (Medicine)
 - Fernando Samu (Medicine)

- Undergraduate Thesis supervisor:
 - Clarissa de Sampaio Schitine
 - Bernardo Stutz Xavier
 - Myrofora Nicolaou
 - 2013-2014: overall theme – the Brain in Menopause
 - Eleni Violari – characterization of a mouse model for menopause, phytoestrogens and the GABAergic system
 - Eleni Hadjicosta – hormone replacement therapy and the GABAergic system
 - Christos Paisiou – GABA agonist therapy in menopause
 - 2014-2015
 - Anastasis Nicolaou
 - Georgia Ioannou
 - 2015-2016
 - Polina Pantelidou
 - Katerina Kyriakou
 - Ermioni Mina

Teaching

- Course leader for the undergraduate courses in the Human Biology program at the University of Nicosia
 - BIOL 205 - Human Anatomy and Physiology I (2007-2011)
 - BIOL 206 - Human Anatomy and Physiology II, 2007-2014,
 - BIOL 301 – Developmental Biology and Human Embryology, 2010- March 2016,
 - BIOL 461 – Cellular Neuroscience, 2011- March 2016
- Course leader for the undergraduate courses in the Nursing program at the University of Nicosia
 - NUR 230 – Pathophysiology (2008-2010),
 - NURS-105 - Introduction to Anatomy and Physiology (2010 – 2011)
 - NUR 216 – Pharmacology (2009)
- Demonstrator for Anatomy in the postgraduate course in Medicine (SGUL at the UNIC) – 2012-present
- Co-responsible for the postgraduate course "Molecular Basis for Neurochemical Differentiation in the Central Nervous System", taught at the Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro, 1995-2006.
- Co-responsible for the "Retinal Neurochemical Seminars" in the Laboratório de Neurobiologia da Retina at the Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro, 1995-2006.
- Co-responsible for the postgraduate course "Fundamental Neurobiology ", for postgraduate students at the Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro, 1997-1998, 2003-2006.

- Coordinator of the undergraduate courses: Physiology and Biophysics and Integrated course in Neurobiology for undergraduate students in Phonoaudiology, March 1997 to August 1998.
- Co-responsible for the undergraduate course Physiology and Biophysics and Integrated course in Neurophysiology for Medical Students, 2003-2006.
- Coordinator of the graduate course "Fundamental Neurosciences" for graduate students at the Institute of Biological Sciences, Program in Morphology, Federal University of Rio de Janeiro, 2004-2006.
- Undergraduate courses for Nursing, Anatomy and Physiology I and II, Pathophysiology, Pharmacology, 2007-2011.
- Undergraduate courses for Human Biology, Nutrition and Dietetics, Sports Sciences, Pre Medicine program, Anatomy and Physiology I and II, 2007-2011 at Intercollege.
- Undergraduate courses taught for the Nursing, Physiotherapy, Phonoaudiology and Medicine (1996-2006):
 - General Physiology,
 - Introduction to Biophysics,
 - Neurophysiology
- Graduate courses taught in the Program in Neurobiology at the Institute of Biophysics Carlos Chagas Filho, Federal University of Rio de Janeiro (1996-2006):
 - Fundamental Neurobiology,
 - Basic Neurochemistry,
 - Molecular Basis for Neurochemical Differentiation in the Central Nervous System,
 - Neurobiology of the Mammalian Retina

Participation in International schools:

- Second IBRO School of Neuroscience: Developmental Neurobiology, Rio de Janeiro, Brazil, Sept 27-Oct 14, 2004, Organizer Roberto Paes de Carvalho. Faculty teaching in the School of Neuroscience.

Professional Development – Learning and Teaching in Higher Education:

- Train the Trainer (2009) - training seminars, CARDET – University of Nicosia
- E-Learning (2010) – LAMS platform, training seminar – University of Nicosia
- Continuous Professional Academic Development Programme in Learning and Teaching in Higher Education (CPAD) – Part A (2011) – Intercollege
- Educational Supervisor in the course PgCert Healthcare & Biomedical Education of St George's University of London for the Medical program at UNIC (since 2011).

Conference organization:

- COST B30 meeting (Management Committee and Working Group meetings) in Larnaca, Cyprus. October 24-25th 2009. Organizer: Edna Yamasaki Patrikiou
- Climate Change and Public Health, Nicosia, Cyprus. June 24th 2011. Organizer: Edna Yamasaki Patrikiou
- Medisigns – Reaching for the Deaf Community. April 18th 2012. Organizer: Edna Yamasaki Patrikiou
- Climate Change and Public Health, Nicosia, Cyprus. September 28th 2012. Organizer: Edna Yamasaki Patrikiou

Other activities:

- Department of Life and Health Sciences newsletter, Editorial Board
- Department of Life and Health Sciences summer camp, Organization and Teaching
- Ministry of Education and Culture, Cypriot Sign Language (completed 1st year)

Chad Schou

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Work History

May 2016-present: Suture tutor for the University of Nicosia Medical School Surgery Skills Course.

October 2012-present: University of Nicosia Medical School coordinator (host center) for the Royal College of Surgeons of England membership exam.

July 2013-present: Co-instructor for the Global Semester course at the University of Nicosia, where I teach undergraduate students clinically-orientated anatomy and clinical skills.

August 2012-present: Anatomy demonstrator for first and second year medical students at the University of Nicosia Medical School and the St George's, University of London medical programme delivered by University of Nicosia in Cyprus.

June 2011-present: Head of Medical School Laboratories at the St George's, University of London medical programme delivered by University of Nicosia in Cyprus. I manage the clinical skills, microbiology, and anatomy laboratories. I am responsible for ordering all the medical equipment and consumables for the medical school. In addition, I am a PBL tutor and demonstrate human anatomy for first and second year medical students. (See additional skills and responsibilities at the medical school and university in the description below.)

May-June 2011: Freelance sample collection for microbial analysis for hotels, restaurants, and bakeries in cooperation with Elan Foodlab Ltd. Nicosia, Cyprus. I also provided guidance for HACAP/ISO9001 compliance for certain bakeries in Cyprus.

Aug. 2007-Dec. 2010: Special Contract Research Scientist at the State General Laboratory of Cyprus, where I was responsible for the extraction and screening of dioxins and dioxin-like compounds in food using a cell based method, DR CALUX. In addition, I used various bioassays to screen different types of Cypriot water samples for toxicity and mutagenic and genotoxic potential. From Aug. 2007 until Oct. 2008, I was involved with a research project that consisted of compiling an authenticity data bank of Cypriot and European honey based on isotopic fractionation by nuclear magnetic resonance (SNIF-NMR).

Feb. 2005-Dec. 2006: Manpower Contract Researcher Scientist III at Pfizer Pharmaceuticals, Inc., where I worked in R&D and on bioprocess purifications for large-scale protein/drug substances, in addition to writing development reports about those optimizations.

Sept. 2003-Aug. 2004: Researcher II, where I sequenced DNA and cloned genes into bacteria; Plant Biology Department, Southern Illinois University, Carbondale, IL.

July 2001-June 2003: Researcher II, where I purified chromatin-remodeling enzymes and was a lab credit card manager; Biochemistry and Molecular Biology Department, Southern Illinois University School of Medicine, Carbondale, IL.

Aug. 1999-May 2001: Teaching Assistant, where I taught an introductory biology lab and graded lecture exams; Plant Biology Department, Southern Illinois University, Carbondale, IL.

June 1998-May 1999: Plant Molecular Physiology Lab, where I conducted plant physiology experiments; Plant Biology Department, Southern Illinois University, Carbondale, IL.

Feb. 1998-May 1998: Undergraduate Chemistry Classroom Lab Mixer, where I prepared the chemicals and lab experiments for students; Chemistry Department, Southern Illinois University, Carbondale, IL.

Feb. 1996-May 1998: Chemical Stockroom Clerk, where I issued chemicals and equipment to students and researchers; Chemistry Department, Southern Illinois University, Carbondale, IL.

Education

Southern Illinois University at Carbondale, IL

M.S. in Plant Biology, 2001.

Specialization: Molecular Plant Physiology

Southern Illinois University at Carbondale, IL

B.A. in Chemistry (Specialization in Biochemistry).

Minor in Plant Biology, 1999.

St. George's, University of London, UK

Postgraduate Certificate in Healthcare and Biomedical Education (PgCert HBE), 2016

University Research Topic

M.S. Thesis: Characterization of Protease Activities in the Desiccation-Tolerant Bryophyte *Tortula ruralis*. Major Professor: Dr. Andrew Wood.

M.S. Thesis Research. Southern Illinois University at Carbondale

Characterization of Protease Activities in the Desiccation-Tolerant Bryophyte *Tortula ruralis*.

My research thesis project involved detecting SDS-PAGE protease activity using a gelatin substrate for particular moss treatments: hydration, desiccation, rehydration and rapid dry. Proteases were then characterized by a fluorescence protease assay, various pHs, inhibition studies and heat stability.

Medical Education Skills and Experiences

Problem Based Learning (PBL) Tutor

Clinical Skills Equipment and Medical Manikins

Human Anatomy: Demonstration, Dissection, Prosection, and HTA 2004 (UK)

Medical Waste Management

Undergraduate Level Clinical Anatomy Instructor (UNIC: BIOL 310)

Interviewer of Prospective Medical Students

Post Graduate Surgical Training Courses

Scientific Skills

Protein Purification and Quantification.

Pegylation of Biomolecules

Chromatography: affinity; anion/cation-exchange; and immunoprecipitation.

Electrophoresis: SDS-PAGE and Agrose-gel.

Äkta Explorer, HPLC and FPLC with Unicorn software.

Large and small-scale Ultrafiltration and Diafiltration.

Large-Scale Yeast Fermentation (up to 60L at a time).

E. coli and Mammalian (H4IIE GudLuc 1.1) Cell Culture.

DNA Sequencing; AFLP (amplified fragment length polymorphism).

GMP and cGMP training (Pfizer Pharmaceuticals, Chesterfield, MO, USA).

PCR and Cloning (E. coli.).

Western Blot and Southern Blot.

Site-Specific Natural Isotope Fractionation Nuclear Magnetic Resonance (SNIF-NMR).

Inductively Coupled Plasma (ICP).

Isotope Ratio Mass Spectrometry (IR-MS).

Karl-Fisher water determination.

DR CALUX® (dioxins/dl-PCBs), Microtox®, Daphtoxkit F™ Magna, and Mugenic and Genotoxicity bioassays, MUTA-ChromoPlate™ and SOS-ChromoPlate™.

Sample collection for microbial analysis and HACAP/ISO9001 compliance.

Teaching Experience

At the SGUL/UNIC medical school, I demonstrate human anatomy and produce the prosection used for the anatomy session. As a PBL tutor, I facilitate small group learning using realistic medical cases and scenarios. I also teach an undergraduate level clinical anatomy summer course offered by the University of Nicosia (BIOL 310) at the medical school (Summer 2012-present). In the past, I taught an introductory biology laboratory at Southern Illinois University at Carbondale, IL (Fall 1999, Spring 2000, Fall 2000, and Spring 2001).

Research Experience

I was involved with an EU funded project at the SGL where I was responsible for the screening for presence of dioxins and dioxin-like compounds in food using a cell

based method, DR CALUX. In addition, I use various bioassays to screen different types of Cypriot water samples for toxic and genotoxicity chemicals, which lead to a publication.

While working at the State General Laboratory of Cyprus, I contributed to the creation of a data bank of Cypriot and European honey, which reflects the climatic influences that took place where plants grew from which honey was made that was based on the specific isotopic ratio (SNIF-NMR) of ethanol from fermented honey. I also measured biologically important metals in those honey samples using Inductively Coupled Plasma (ICP) to complement the Cypriot honey data bank.

At Pfizer, I worked in the R&D bioprocess group where I learned how to operate and optimize both small and large-scale ultra filtration equipment, Äkta explorer and spectrophotometric equipment and pegylation chemistry used to make drug substance. This data was used to produce development reports that I helped write for the bioprocesses that our group were optimizing. In addition, I also received some GMP training in order to comply with the FDA regulations and Pfizer standards for experimental and manufacturing procedure. I worked on the process development work for Peg-hGH (Pegylated human growth hormone) and Peg-PYY (Pegylated anti-obesity drug).

I also have experience with large scale cell culture (up to 60L at a time), Äkta Purifier FPLC, affinity chromatography, Western blot analysis, SDS-PAGE, Kodak Image station, protein assays, fluorimetrics, ATPase assays, immunoprecipitation, yeast chromatin remodeling assays (gel-shift assay), DNA sequencing, cloning, PCR, AFLP and genetic variability between plant species, and desiccation-tolerant plant physiology.

Laboratory Management Experience

Other than currently managing the clinical skills, microbiology, and anatomy laboratories at the medical school, I have three years experience with laboratory management at the Southern Illinois University (2001-2003), which includes ordering chemical supplies, reconciling bills, data base up-keep, general accounting of National Science Foundation grants that ranged in the hundreds of thousands of dollars, and various equipment repairs. I have experience training student workers and graduate students on protein purification, DNA extraction, and DNA sequencing.

Publications

Andromachi Katsonouri, Chrystalla Demetriadou, Elli Karavi, Chad Schou, and Elina Chrysanthou (2012). MUTAGENICITY TESTING AS A COMPLEMENTING TOOL IN THE HOLISTIC MONITORING OF WATER QUALITY. FEB Vol. 21, No. 8, pgs. 2132-2139.

Poster Abstracts

Kokkinofa, R., Theocharis, C.R., Schou, C., Theophanous, F., Hadjikyriakou, A., Tzioni, E., Argyrides, R., Michael, C. (2008). Authenticity of Cypriot Honey Using SNIF-NMR And Chemometrics. The 3rd International Conference on the Applications of Magnetic Resonance in Food Science. Reykjavik, Iceland, Sept. 15th-17th 2008.

Bei Zhang, Jim Persinger, Chad Schou, Smitha Jagadish, and Blaine Bartholomew (2003). The dissection of SWI/SNF-nucleosome architecture upon recruitment by Gal4-VP16. Biochem. Cell Biol. Vol. 81, page 254.

Schou, C.H. and Wood, A.J. (2001). Characterization of Protease Activities in the Desiccation-Tolerant Bryophyte *Tortula ruralis*. Supplement to the Molecular and Cellular Biology Symposium, Grafton, IL.

Schou, C.H. and Wood, A.J. (2000). Characterization of Protease Activities in the Desiccation-Tolerant Bryophyte *Tortula ruralis*. American Society of Plant Physiologists annual meeting June 2000 San Diego, CA.

Schou, C.H. and Wood, A.J. (1999). Characterization of Protease Activities in the Desiccation-Tolerant Bryophyte *Tortula ruralis*. Supplement to the Illinois Academy of Science annual meeting, Carbondale, IL.

Additional Course Work and Computer Classes

Psychobiology 302, Southern Illinois University (Fall 2002)

Psychopharmacology 415, Southern Illinois University (Spring 2003)

Modern Greek 104, University of St. Louis Missouri (Spring 2006)

Modern Greek 2nd Year, Ministry of Education, Nicosia, Cyprus (Fall 2007-2008)

Modern Greek 3rd Year, Ministry of Education, Nicosia, Cyprus (Fall 2008-2009)

Correl Draw, Aktina Training Center, Nicosia, Cyprus (12/07)

Microsoft Outlook 2007, Hyperlife Training Center, Nicosia, Cyprus (12/09)

Microsoft Excel 2007, Hyperlife Training Center, Nicosia, Cyprus (11/09)

Professional Societies Honors

American Chemical Society (2007-current).

Sigma Xi Research Society (2001-2003).

Illinois Rural Health Association (2000-2004).

American Society of Plant Physiologists (2000-2002).

Illinois Academy of Science (1999).

American Society of Plant Physiologists essay travel grant recipient (\$300) to

American Society of Plant Physiologists annual meeting in San Diego, CA (June 2000).

Life Scout, Boy Scouts of America, 1991.

References

Available upon request.