CGS Agenda Item: 22-52
Effective Immediately

Britto P. Nathan, PhD
Department of Biological Sciences
Eastern Illinois University
Charleston, IL 61920
217 581-6891
bpnathan@eiu.edu

April 18, 2022

To: Dean Ryan Hendrickson, Graduate School

Re: Petition to waive standard limitations for Associate Graduate Faculty

Dear Dean Hendrickson:

I would like to request you to waive the standard limitation for Associate Graduate Faculty to allow Dr. Antony O. Oluoch to serve on the MS Thesis Committee from August 01, 2022 to August 01, 2024.

Dr. Oluoch will provide much needed experience and insight into Ms. Savannah Ettien's thesis project. Her research involves monitoring mosquito populations across Illinois as well as examining their internal microbiomes. Dr. Oluoch has extensive knowledge of mosquito populations in Illinois and has worked in the past on microbiome research. This skillset is unique at EIU, and his contributions to Ms. Ettien's project will be invaluable.

Please let me know if you have any questions.

Sincerely,

Britto P. Nathan

Britto P. Nathan, PhD
Professor of Biological Sciences
Graduate Coordinator

Anthony Onyango Oluoch

Department of Biological Sciences
Eastern Illinois University
600 Lincoln Avenue
Chaleston IL 61920
Tel Office:(217) 581-6383
Cell: 217-377-1336
Email: aooluoch@eiu.edu

Home address
407 Burkwood Ct West,
Urbana, IL 61801

SUMMARY

History of solid professional and academic experience in anatomy and histology

History of solid proficiency in the transfer of knowledge via web based learning

Experience with instruction in large groups, small groups and laboratory settings

PROFESSIONAL CORE COMPETENCIES/STRENGTHS

1) Demonstrated excellence in teaching gross anatomy
2) Demonstrated excellence in teaching histology
3) Exposure to neuroscience lectures and labs
4) Commitment to long-term teaching of anatomy/histology and loyalty to institutional ethics
5) Competent bench scientist with broad research skills
6) Demonstrated capacity for independent research
7) Ability to network with fellow faculty and staff
8) Attention to detail
9) Excellent oral and written communication skills
10) A team player with excellent faculty, staff and student interaction skills

EDUCATION

University of Nairobi, Kenya DVM
University of Saskatchewan, Saskatoon, Canada MS
University of Illinois at Urbana-Champaign Ph.D

PROFESSIONAL EXPERIENCE

8/16/2012 to present: Instructor, Department of Biology, *Eastern Illinois University.* Instruction of human gross anatomy, physiology and histology. . Also coordinated prosection courses for Advanced Anatomy involving structured Human Anatomic prosection for premed students. Starting Fall 2018, Instructor of Honors Anatomy and Physiology. In the summers of 2016, 2017 and 2018, ran field studies for mosquito species occurring in Coles County Illinois. Supervised undergraduate students in morphologic and molecular identification of *Aedes* and *Culex* species. These studies were conducted in association with the Medical Entomology Unit at the University of Illinois

6/15/2010 to 7/30/2012: Assistant Professor, College of Human Medicine, *Michigan State University*. Instruction of human gross anatomy, histology and pathology. Also involved in PBL instruction.

8/15/2009 to 6/14/2010: Research Scientist, Department of Veterinary Biosciences, *University of Illinois at Urbana-Champaign*. Stem cell research and histology instruction.

8/16/2003 to 8/15/2009: Assistant Professor, Department of Veterinary Biosciences, *University of Illinois at Urbana-Champaign.* Instruction of gross anatomy, histology, and neurobiology.

8/21/2002 to 8/15/2003: Visiting Assistant Professor, Department of Veterinary Biosciences, *University of Illinois at Urbana-Champaign*
-Course coordinator for gross anatomy. Taught 80 percent of lectures all lectures and team taught labs

8/21/2001 to 8/20/2002: Visiting Instructor, Department of Veterinary Biosciences, *University of Illinois at Urbana-Champaign*

-Assisted in the instruction of gross anatomy, histology and neurology
8/1997 to 5/21/2001: Instructor, Veterinary Technology program *Parkland College, Champaign Illinois*
-Taught veterinary gross anatomy (BIO 160 and BIO 162) in the fall and spring semesters, and taught human anatomy and physiology (BIO 121 and BIO 122) during the summer semesters

8/1993 to 11/21/2000: Research Associate and PhD candidate, Department of Veterinary Biosciences, *University of Illinois at Urbana-Champaign*
-Supervised the Electron Paramagnetic Resonance (EPR) laboratory

4/1992 to 7/1993: Academic Hourly, Departments of Pathobiology and Clinical Medicine *University of Illinois at Urbana-Champaign*
-Performed diagnostic microbiology and introduced myself to EPR techniques as a preamble to the Ph.D. program
-Involved in research on pathogenesis of pseudorabies virus in swine
-Performed histologic processing and pathologic interpretation of tissue changes

7/1990 to 4/1992: Veterinary Pathology Resident, Department of Pathobiology, *University of Illinois at Urbana-Champaign*
-Received instruction in histology, gross anatomy, pathology; and the performance of necropsy and biopsy examinations with emphasis on recognition, interpretation and presentation of both gross and histologic lesions
4/1990 to 6/1990: Research Associate, Department of Veterinary Microbiology, *University of Saskatchewan,* Saskatoon Canada
-Performed serologic surveys and viral isolation of *Western equine encephalitis virus*

9/1986 to 3/1990: Department of Veterinary Microbiology, *University of Saskatchewan*, Saskatoon Canada

-Performed routine examination of porcine and bovine carcasses and tissues in the postmortem evaluation for *Leptospira interrogans* species

PROFESSIONAL AWARDS AND HONOR SOCIETIES

-April 2012: Certificate of Honorable Mention for Outstanding teaching faculty, Michigan State University
-April 2011: Certificate of Honorable Mention for Outstanding faculty, Michigan State University
-1996: to present: Member, American Veterinary Medical Association (AVMA)
-2006 and 2007: Recipient of Dr Lloyd Helper Award for Collegiality, College of Veterinary Medicine, University of Illinois
-2000: Nominee and member, Urbana-Champaign Chapter of *Phi Kappa Phi*
-1986: Recipient of the Canadian International Development Agency (CIDA) scholarship for graduate training at the University of Saskatchewan, Canada
-1986: to present: Member, Kenya Veterinary Association

DOCTORAL THESIS TITLE

Nitric Oxide in the cytotoxicity of metronidazole against trichomonas vaginalis, 2001. Professor Robert Beck Clarkson (Deceased), Research Advisor

PUBLICATIONS

1) Nielsen JC, O=Keefe DA, Wallig, MA and Oluoch AO (1992). Lymphosarcoma causing acquired obstructive hydrocephalus in a dog. *Can. Vet. J.* 33: 669-670.
2) Oluoch AO, Weisiger R, Campbell KL, Krawiec DR, McKiernan B, and Kakoma I (1996). Trends of Bacterial Infections in Dogs: Characterization of *Staphylococcus intermedius* isolates (1990-1992): *Can. Prac.* 21(2): 2-19.
3) Oluoch AO, Chang-Hyun K, Weisiger R, Campbell KL, Siegel A, McKiernan B, Koo G, Burke T and Kakoma I (2001). Non-enteric canine *Escherichia coli* isolates (1990-1998). *JAVMA.* 218 (3): 381-384.
4) Chang-Hyun Kim, Khan M, Morin DE, Hurley WL, Tripathy DN, Kehrli, M Jr, Oluoch AO and Kakoma I (2001). Optimization of the PCR for Detection of *Staphylococcus aureus nuc* Gene in Bovine Milk. *J. Dairy Sc.* 84: 74-83.
5) Byeong BK, Kim JH, Lim CW, Hur, J, Lee, BO, Onuma, M, Oluoch AO and Kakoma I. (Oct. 2003). Verification of vertical transmission of *Theileria sergenti* in cows by polymerase chain reaction. Can. J.Vet. Res. 67(4): 278-282.
6) Byeong BK, Islam MK, Hur, J, Oluoch AO, Kim Chang-Hyun, and Kakoma I (May 2003). Characterization of the protective response against a homologous challenge infection with *Strongyloides venezuelensis* in Rats. *Vet. Parasitol*. 113(3-4):217-27.
7) B.K. Baek, C.W. Lim, M.S. Rahman, C-Hyun Kim, A. Oluoch, I. Kakoma. (Oct.2003). Brucella *abortus* infection in indigenous Korean Dogs. *Can. J.Vet. Res*. 67(4): 312-314.

CONFERENCES/SYMPOSIA

-Third Spring Meeting of the Canadian Society for Immunology, Lake Louise, Alberta, March 3-6, 1989.
-Annual Meeting of the Canadian Society for Microbiology, Montreal, Quebec, June11-15,1989.
-International Northwestern Conference on Diseases in Nature Communicable to Man, Calgary, Alberta. Presented paper

entitled "Leptospiral Infections of Wild and Domestic Animals in Western Canada@ August 13-16, 1989.
-Symposium on Nitric Oxide: A New Frontier in Free Radical Research. University of Iowa, Iowa City, October 7, 1995.
-Symposium on High Frequency Electron Paramagnetic Resonance, University of Illinois, August 20-21, 1998.
-First Annual Conference on New and Reemerging Diseases, University of Illinois, April 24-25, 1998.
-Poster presentation, Second Annual Conference on New and Reemerging Infectious Diseases, College of Veterinary Medicine, University of Illinois, May 20-21, 1999.
-Poster presentation, Third Annual Conference on New and Reemerging Infectious Diseases,
College of Veterinary Medicine, University of Illinois, April 20-21, 2000.

-Co- presented three posters at the Fifth Annual Meeting of New and Emerging Diseases, Urbana IL, April 18-19, 2002. The posters were:

-Verification of vertical transmission of *Theileria sergenti* in cows by polymerase chain reaction

-Polymerase chain reaction analysis of genomic DNA from *Brucella abortus* Korean field isolates

-Pathophysiology of canine and equine monocytic ehrlichiosis: a model for human monocytic ehrlichiosis

-June 13-14, 2004: PCB workshop, University of Illinois, College of Veterinary Medicine

-Nanotechnology workshop: May 5-6, 2005: Beckman Institute for Advanced Science and Technology
College of Engineering, University of Illinois at Urbana-Champaign

-October 14, 2007: Abstract Presentation: Provost's Initiative on Teaching Excellence, University of Illinois. Title: System based realignment and enhancement of anatomical images for teaching VB 600

-June 2-6, 2008: Molecular Biology workshop, University of Illinois, College of Veterinary Med.
-March, 14, 2012: Presenter, Anatomical Workshop for Surgical specialist. Abdomen and Medial Thigh, College of Medicine, Michigan State University
-March 31, 2017: EIU's annual Student Research and Creative Activity Day: Title: *Aedes* Mosquitoes in Coles County. Presenters: Ryan Alderman (GS), Hannah Baysingar, Lindsay Spitz, David Emrick
Faculty Mentor: Antony Oluoch & Tom Canam, Biological Sciences
-March 31, 2017: EIU's annual Student Research and Creative Activity Day: Title: Using Real Time PCR for the definitive Identification of *Culex* species. Presenters: Megan Cooper, Maryneth Biyok Faculty Mentor: Antony Oluoch & Tom Canam, Biological Sciences
-March 31, 2017: EIU's annual Student Research and Creative Activity Day: Title: Occurrence of *Culex* mosquito species in Coles County Illinois. Presenters: Megan Cooper, Maryneth Biyok. Faculty Mentor: Antony Oluoch & Tom Canam, Biological Sciences
-March 31, 2017: EIU's annual Student Research and Creative Activity Day: Title: Histologic Classification of Canine Mammary Tumors. Presenter: Adriana Reppell. Faculty Mentor: Antony Oluoch & Tom Canam, Biological Sciences
-June 7-9, 2018: Poster: 11th Annual Arthropod Genomics Symposium, University of Illinois at Urbana Champaign
-April 5-6, 2019 at Bradley University, Peoria IL. Title: Aedes mosquitoes in Coles County Illinois. Presenter: Krystal Adkins. Faculty Mentor: Antony Oluoch & Tom Canam, Biological Sciences
-April 5-6, 2019 at Bradley University, Peoria IL. Title: Culex mosquitoes in Coles County Illinois. Presenter: Krystal Adkins. Faculty Mentor: Antony Oluoch & Tom Canam, Biological Sciences

CAMPUS COMMITTEES

-Chair, Anatomy and Physiology Honors Committee
-Member, Departmental Committee on Anatomy/Physiology Curriculum Review- EIU
-Member, Equipment Committee – EIU
-Member, Admissions Committee- MSU
-Member, Departmental Committee on Curriculum- UIUC

-Member, College Committee on Information Technology- UIUC
-Member, Departmental Committee on Curriculum- UIUC

RESEARCH GRANTS

-Initial EPR studies of the reduction products of nitroimidazoles: The role of this reduction pathway in interaction between metronidazole and *Trichomonas vaginalis*. The department of Health and Human services, Public Health Service (NIH). Co-investigator. Principal Investigator, Robert Clarkson, 1996: $90,000
-Pathogenesis of pseudorabies virus, University of Illinois, Co-investigator. Principal Investigator, Tripathy DN, 1992: $30,000
-Leptospirosis in swine in Saskatchewan, Saskatchewan Research Council and CIDA, Masters study, Principal Investigator, John Iverson, 1988-1989:$10,000
-Establishing the cellular targets of nitroimidazoles in *Trichomonas vaginalis*. Campus Res. Board, UIUC: Principal Investigator, Oluoch, March 2005: $15,500
-Unrestricted Research gift: nitric oxide research. Principal Investigator Oluoch, January 2007: $21,000

TEACHING GRANTS

-Realignment of VB 600-Gross Anatomy. Provost's initiative for teaching advancement (PITA): University of Illinois, Urbana-Champaign. Principal Investigator Oluoch, June 2005: $17,388
-Redden Grant for Improvement of Anatomical Teaching, Eastern Illinois University, April 2013, $1400
-Redden Grant for Improvement of Anatomical Teaching, Eastern Illinois University, April 2014, $1200
-Study Abroad Teaching Grant, Eastern Illinois University, March 2014, $3057
-Redden Grant for Improvement of Anatomical Teaching, Eastern Illinois University, April 2015, $1430
-Redden Grant for Improvement of Histology Teaching, Eastern Illinois University, April 2015, $1500
-Redden Grant for Improvement of Anatomical and Histology Teaching, Eastern Illinois University, August 2017, $2800
-Redden Grant for Acquisition of Histology Slides, Eastern Illinois University, August 2018, $1500
-Restricted Anatomic Grant for Anatomy Teaching, August 2018, $3500, University of Illinois and Mc Henry College
- Redden Grant for Acquisition of Histology Slides Scanner , Eastern Illinois University, June 2020, $1750

PROFESSIONAL AND UNDERGRADUATE STUDENT RESEARCH SUPERVISION

-2003 to 2009: Supervised research in my lab with the following students: Jason Long, Christina Hansen, Lisa Fink, Grant Venema, Toni Kwan, Lindsay Carliff, Margaret Jones, Dave Murdoch and Edwina Witowski
-2012-2015: Undergraduate Research Supervision: Tumpe Waitkins, Jermecka Johnson, and Adriana Reppell
-Spring 2016: Undergraduate Research Supervision: Bernickia Arnold and Adriana Repell
-Summer 2016: Undergraduate Research Supervision: Adriana Repell and Trevon Smith
-Fall 2016: Undergraduate Research Supervision: Hannah Baysinger, Megan Cooper, Amber Meyer, Richelle Miller, and Jacqueline Jones
-Spring 2017: Undergraduate Research Supervision: Ryan Alderman, Maryneth Biyok, Katelyn Jensen, Hannah Baysingar,
-Spring 2017: Honors Research Supervision: Lindsay Spitz
-Summer 2017: Honors Research Supervision: Lindsay Spitz and Megan Cooper

-Fall 2017: Honors Research Supervision: Megan Cooper
-Fall 2017: Undergraduate Research Supervision: Seth Yates
-Honors Thesis advisor, Megan Cooper: Analysis of Gut Microbiota from Aedes *albopictus* mosquitoes collected in Central Illinois
-Honors thesis advisor, Lindsay Spitz: Molecular and Morphologic Identification of *Culex* Mosquitoes
-Spring 2019. Undergraduate Research Supervision: Krystal Adkins and Mario Lara
-Spring 2020. Undergraduate Research Supervision: Taylor Spidle and Megan Adams
-Fall 2020. Undergraduate Research Supervision. Ryan Skowronski
-Summer and Fall 2021. Honors research supervision, Megan Adams and Madison Monan

THESIS COMMITTEES

-PhD thesis committee: Sam Salem-Sreenivasan
-Msc thesis committee member: Kylee R Gochanour
-Msc thesis committee member: Abdulrahman S Aldaghmi
-Msc thesis committee member: Huda Alzahrani
-Msc thesis committee member: Iffat Jahan
-Msc thesis committee member: Kezban Ucar Cifci
-Msc thesis committee member: Abdulmohsen Alanazi

OTHER SKILLS

-Good working knowledge of word processing, spreadsheet, and graphics software
-Mastery of presentation software such as Power-point and the SAS statistical package
-Mastery of PC format and good working knowledge of Mac based computers
-Mastery of Web techniques specifically *Dreamweaver* and *Fireworks* for the preparation of web-based learning packages
-Good working knowledge of basic programming language
-Good working knowledge of processing of tissues for histopathology and their interpretation
-Good working knowledge of processing of tissues for bacteriology and their interpretation
-Good working knowledge of routine molecular biology techniques such as PCR, southern and western blots
-Excellent knowledge of microscopy including confocal and flourescent microscopy
-Excellent knowledge of immuno-histochemistry and tissue culture
-Excellent photographic skills