INSTRUCTIONS FOR COMPLETION OF THE COMPUTERIZED FORM FOR APPLICATION TO THE UAMS GRADUATE FACULTY

1. Please read the form carefully and answer all questions. The form begins on the next page.

2. The form has been designed with fields for your responses, and these are indicated in blue and gray shading. Use the “tab” key to move between fields. The form will automatically expand to accommodate your entries. IF YOU NEED HELP IN ANY OF THE FIELDS, PRESS THE F1 KEY AND A HELP WINDOW WILL OPEN.

3. When you have completed the form, save it as a document on your own disk for future reference.

4. Print the document, and then obtain the appropriate signatures before submitting the form to the Graduate Office.
UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES
GRADUATE FACULTY APPLICATION

1. Name: En Huang

2. UAMS Graduate Program Sponsor: Certificate in Regulatory Science Major field: Microbiology/Food Safety

3. Present UAMS academic title or administrative position: Assistant professor
Date appointed this rank/position: 08/01/2016 Employed by: Environmental and Occupational Health, College of Public Health

4. Comments of Department Chair/Head or Program Director including: evidence of scholarly development, effectiveness as a teacher, quality of publications and reallocation of duties if this application is approved.

Dr. Huang recently joined our program as an assistant professor. In the past five years, Dr. Huang's work in natural antimicrobial discovery and development led to one granted U.S. patent and 10 publications in well-recognized journals in the field of microbiology. His newly established microbiology laboratory will focus on research targeting foodborne pathogens and antibiotic-resistant pathogens.

He has been extensively involved in classroom teaching and mentoring students at Ohio State University; one of his undergraduate students received an undergraduate research scholarship in 2015. Dr. Huang will be teaching in our Regulatory Science Graduate Certificate Program, and he plans to recruit and supervise graduate students from the Graduate Program in Interdisciplinary Biomedical Sciences. His involvement in research and teaching will significantly contribute to the development of our program.

Jay Gandy 08/29/2016
Department Chair/Head or Program Director Date Graduate Council Representative

I have read the comments of my Department Chair/Head or Program Director and I do, do not (circle one) wish to supply additional information in support of my application.

En Huang 08/24/2016
Applicant’s Signature Date

Approvals

Jay Gandy 8/31/2016
Chair, Graduate Faculty Committee Date

Chair, Graduate Council Date

Dean of the Graduate School Date

Approved 5/30/96
Updated 02/02/06
5. List your planned involvement in graduate education (courses, theses, dissertations):

I will be teaching two courses, Environmental Biohazards, and FDA Regulations in the Department of Environmental and Occupational Health, College of Public Health.

I'd like to give guest lectures for relevant courses on topics in my area of research: such as foodborne pathogens, antimicrobial peptides, and nonribosomal peptides.

I plan to serve on graduate students' theses/dissertation committees and supervise graduate students on research projects focusing on food microbiology and safety.

6. Briefly summarize your experience in graduate-level classroom teaching:

I have 6-year experience in teaching courses for undergraduate and graduate students. My major teaching assignment was Food Microbiology Laboratory, a core course for undergraduate and graduate students in the Department of Microbiology and the Department of Food Science and Technology at the Ohio State University. I played a very critical role in organizing classroom activities, preparing exams, maintaining the eLearning course website, and coordinating teaching meetings.

7. Briefly summarize your experience in research and student research mentoring:

I had extensive experience in advising undergraduate and graduate students at Ohio State University. I co-advised an undergraduate, who worked on high pressure food processing. The student was selected to present her research in the 19th Denman Undergraduate Research Forum at the Ohio State University in April 2014. In 2015, I supervised a senior undergraduate student, who worked on fermentation and purification of a promising food antimicrobial agent; this student was awarded an undergraduate research scholarship in 2015 at the Ohio State University. From 2013-2016, I coordinated the antimicrobial discovery team consisting of a visiting scholar and two doctoral students at the Ohio State University.

8. Attach Curriculum Vita showing educational background (including institutions attended, degrees awarded and dates), honors or awards received, scholarly or professional organization affiliations, teaching experience (give school, dates and advanced and graduate subjects taught), including student theses and/or dissertations supervised. Cite publications and research in progress.
En Huang, PhD  
Department of Environmental and Occupational Health  
Fay W. Boozman College of Public Health  
University of Arkansas for Medical Sciences  
Phone: (614) 282-1369; ehuang@uams.edu

EDUCATION
Ph.D. 2013 The Ohio State University, Food Microbiology
M.S. 2009 Southern Illinois University at Carbondale, Plant and Soil Science
M.S. 2007 South China University of Technology, Fermentation Engineering
B.S. 2004 Southwest University, China, Food Science

PROFESSIONAL EXPERIENCE
2016-present Assistant Professor, University of Arkansas for Medical Sciences
2013-2016 Postdoctoral Researcher, The Ohio State University

TEACHING EXPERIENCE
2009-2016, Course Instructor and Graduate Teaching Assistant, Food Microbiology Laboratory, The Ohio State University

• Coordinated student research projects on food microbiology and safety, and organize poster forum for students to present their research findings
• Organized classroom activities, maintain the eLearning course website, prepare exams and coordinate teaching assistant meetings

2013-2016, Research Project Coordinator, The Ohio State University

• Coordinated research activities for a research team including a visiting scholar and two doctoral students on projects about discovery and development of new antimicrobials for food applications
• Supervised an undergraduate student on a research project “Reduction of Salmonella contamination in peanut butter using the combination of high pressure processing (HPP) and antioxidants”. This project was presented at the 19th Denman Undergraduate Research Forum at Ohio State University in 2014.
• Supervised an undergraduate student on a research project “Fermentation and purification of a natural antimicrobial peptide, paenibacillin”. The student was awarded a research scholarship for high quality research proposal in 2015.
PUBLICATIONS


Huang E. and Yousef A.E. 2014. Lipopeptide antibiotic, paenibacterin, binds to bacterial outer membrane and exerts bactericidal activity through cytoplasmic membrane damage. Applied and Environmental Microbiology, 80, 2700-2704.


PATENTS


GRANTS
Yousef A.E. and Huang E. Large-scale production of the new bacteriocin, paenibacillin, and its application against Alicyclobacillus acidoterrestris in juices. Center for Advanced Processing and Packaging Studies (CAPPS), 2014-2015, $80,000.

HONORS & AWARDS
Outstanding Research Award, Department of Food Science and Technology, The Ohio State University, 2013
The 27th Annual Edward F. Hayes Graduate Research Forum, 3rd Place in Food, Agricultural and Environmental Science Oral Presentation, The Ohio State University, 2013
American Society of Microbiology (ASM) Student and Post-Doctoral Fellow Travel Grant, 2012

PROFESSIONAL ACTIVITIES
Professional Service
Associate Editor: Microbiological Research
Ad-hoc reviewer for the following Journals:
    Applied Microbiology and Biotechnology, Enzyme and Microbial Technology, Food and Bioprocess Technology, Food Control, Foodborne Pathogens and Disease, Journal of Food Safety, Journal of Food Science and Technology, Meat Science, Microbial Pathogenesis

Professional Affiliations
Institute of Food Technologists, 2010-present
International Association of Food Protection, 2011-present
American Society of Microbiology, 2012-present