

Assraa Hassan Jassim, B.Pharm, Ph.D.

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I am a United State citizen

PROFESSIONAL SUMMARY

Dedicated pharmaceutical sciences Ph.D. graduate with teaching and research experience. My goal is to pursue my passion for neuroscience academic teaching and mentoring to achieve student success.

CAREER GOAL

My goal is to utilize my research and teaching experience to work within your dynamic environment. My passion is to teach and mentor students to become the future generation of the healthcare taker force.

EDUCATION

2020-2021	Postdoctoral Fellow Department of Basic and Translational Sciences, School of Dental Medicine University of Pennsylvania
2015-2020	Ph.D., Integrated Pharmaceutical Medicine (IPM program) Department of Pharmaceutical Sciences Northeast Ohio Medical University (NEOMED), Rootstown, Ohio GPA: 4:00 Defense Date: 12-2019
2008-2012	Bachelor's Degree in Pharmacy (Pharmaceutical Sciences) Syrian International Private University for Science and Technology (SPU), Damascus, Syria Graduated among top five students in class of 200 from one of most accredited Universities in Syria. GPA: 4:00
2005 –2008	Bachelor's Degree in Pharmacy (Pharmaceutical Sciences) Baghdad University, College of Pharmacy, Baghdad, Iraq Number one university in Iraq. GPA: 4:00 Transferred credits to SPU

All international degrees evaluated as US equivalent by World Education Service (WES) and Educational Credential Evaluators (ECE).

LICENSURE AND CERTIFICATION

2019-present	Certificate in Teaching Online-An Introduction to Online Delivery / Quality Matters
2019-present	Certificate in Teaching and Learning Curriculum Northeast Ohio Medical University, College of Pharmacy, Rootstown, OH
2017-present	Writing and Designing NIH Grants certificate Writing training center, Case Western Reserve University, Cleveland, OH
2015-present	Pharmacy Technician Licensure (049.233849) Department of Financial and Professional Development. Chicago, IL
2015-2016	Introduction to the Principles and Practice of Clinical Research (IPPCR) certificate
2014-2016	Certified Tutor at the Advanced Level The National Tutoring Association (NTA)
2013-present	License in Pharmacy Syrian International Private University (SPU)
2013-present	Certified Pharmacy Technician (10015722) Pharmacy Technician Certification Board (PTCB), Chicago, IL

PROFESSIONAL TEACHING AND MENTORSHIP EXPERIENCE

2021- present	Lecturer. Department of Health and & Biomedical Sciences. The University of Texas, RioGrand Valley, Edinburg, TX. Teaching Responsibilities: <ul style="list-style-type: none">• Neuroscience• Microbiology Laboratory• Introduction to Biomedical Laboratories• Gross Anatomy• Introduction to Body Systems part I and II• Introductory and Advanced Cell Biology• General Biology
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- Advanced Molecular Biology
- Medical Biochemistry
- Introduction to Medical Physiology
- Independent Research

Service

- Research & Development committee (R&D)
- MS Applied Biomedical Sciences Graduate Program (ABMS)

Mentorship

- Train students in the lab using the internal grant I won in 2021
- Advise students on their career path
- Write letters of recommendations
- Participate as a Dean Fellow in Student Success program at the College

2016-2020

A. Ph.D. Candidate, Northeast Ohio Medical University, 4209 OH-44, Rootstown, OH 44272

Full-time Teaching Assistant

2019-2020

1. "Human Anatomy, Physiology, and Pathophysiology I" 1st year of medical school

Responsibilities:

- Tutored students to excel in exams
- Prepared and graded exams

2017-2019

2. Medical Neuroscience, 1st year of medical school

Responsibilities:

- Completing 336 hours
- Preparing and storing brains and skulls after collection from human cadavers
- Sectioning human brains (coronal and horizontal)
- Leading the review sessions for laboratory staff members
- Guiding and explaining material to students during laboratories
- Tutoring students to understand materials and excel in exams
- Grading exams

2016-2017

3. Pharmacotherapeutics (Pharmacokinetics and Pharmacodynamics), 2nd and 3rd year of pharmacy school

Responsibilities:

- Tutored students to excel in exams
- Prepared and graded exams

2016-2017

4. Principles of Drug-Body Interactions, 2nd year of pharmacy school

Responsibilities:

- Completed 300 hours
- Tutored students to excel in exams
- Prepared and graded exams
- Maintained attendance and grades

2016-2020

Lecturing

Contributing in part of Biosimilar lectures for 4th year pharmacy students in the musculoskeletal module.

Responsibilities:

- Preparing and presenting a lecture pertaining to the therapeutic uses and considerations of biosimilars.

Contributing in the course "Human Anatomy, Physiology, and Pathophysiology II" for 2nd year pharmacy students

Responsibilities:

- Lecture and exam questions for two course chapters (pain and temperature) and (alterations of neurologic function in children).

Contributing in the course "Evidence Based Medicine" for 1st year pharmacy students

- Lecture and guide students to evaluate clinical literature

2016-2020

Research Assistant in Dr. Inman's Lab

Responsibilities:

- Training technicians, volunteers, medical, pharmacy students, and high school students to conduct experiments, analyze, and interpret data.

- Advising and guiding technicians, volunteers, medical and pharmacy students
- Regularly updating the laboratory of recent research papers through PowerPoint presentations and discussions.

2013-2015
2013-2015

B. Chemistry/Physics Tutor, Malcolm X College, 1900 W Van Buren St, Chicago, IL 60612

Academic Support Specialist

Responsibilities:

- Tutored and taught Basic, General and Organic Chemistry to help students excel in exams.
- Tutored and taught Mechanics, heat and waves physics to help students excel in exams.
- Bridged the gap between the college and the needs of the student and helps students make academic progress, while promoting independent learning and self-reliance.
- Assisted students in achieving a better understanding of specific subject material and in improving academic capabilities in designated areas.
- Helped students develop the study skills necessary for academic success.
- Developed and maintained workshops and presentations regularly using the smart board.
- Provided academic assistance to assigned tutees, in a group or individually.
- Established liaison with the instructor and works under the instructor's direction.
- Maintained records on each student who is being tutored, including follow-up and periodic assessment.
- Helped students develop positive attitudes toward learning and studying; self-confidence and reduce anxiety or fear of failure in academic work; and a high level of motivation in academic areas.
- Established and maintained rapport with the assigned students.

PROFESSIONAL LEADERSHIP

2022

2021

2016-2018

Dean fellow for student success at University of Texas at Rio Grande
Co-Chair of Public Relations for the Biomedical Postdoctoral Council at Penn
Representative of graduate students at Graduate Faculty Council (GFC)
Northeast Ohio Medical University, 4209 OH-44, Rootstown, OH 44272

Responsibilities:

- Promoting graduate students dialogue with faculty
- Assuring a graduate students voice in decision-making pertaining to academic matters such as appointments, promotions, tenure, and the curriculum

2016-2018

Representative of graduate students at NEOMED Student Council (NSC)
Northeast Ohio Medical University, 4209 OH-44, Rootstown, OH 44272

Responsibilities:

- Working closely with Student Affairs to facilitate the implementation of new initiatives or to advocate on behalf of students for improvements or changes.
- Fostering fellowship, support and cooperation in student-faculty relations.
- Supporting a wide range of student organization activities that promote learning beyond the curricular experience.
- Encouraging and helping student groups to develop and fulfill community service projects throughout the year.
- Approving all monies appropriated from student activity fees and oversees all appointments of student representatives to the Colleges' committees.

PROFESSIONAL MEMBERSHIP AND AWARDS

1/6/2022

2/1/2021-8/31/2021

11-8-2019

Local small COHP grant at UTRGV (\$10000)

NRSA-T32-Postdoctoral training grant, #5T32NS043126-18

National Institute of Health (NIH) award for graduate student (F31, 1F31EY031252-01)

2017-present

2015-present

2014-present

7-2019

Society for Neuroscience (SFN)

PHI THETA KAPPA/ HONOR Society

Association for Research in Vision and Ophthalmology (ARVO)

Travel award. ISER/Brightfocus glaucoma symposium: concepts and breakthroughs in glaucoma.

2017-2019

Integrated Pharmaceutical Medicine student grant award (won \$2000)

2016-2020 Northeast Ohio society of neuroscience (NEOSFN)
 2016-2018 American Association of Pharmaceutical Scientists (AAPS)
 2015-2018 Microscopy Society Northeastern Ohio (MSNO)
 2015-2016 Cook County College Teachers Union (CCCTU), Chicago, IL
 2015 Academy of student pharmacists (APhA-ASP), participated in patients counseling competition.

CONTINUOUS SCIENTIFIC EDUCATION

2/15-2/26/2021 Regulatory aspects of drug development at Penn
 2/24-5/5/2021 Preparing for College teaching at Penn
 4/14-5/1/2020 Grant writing Workshop
 5/5/2020 Responsible conduct of research
 2018 **7th Annual NEOMED Master Teaching Guild Resident** as Teacher & Leader Conference, Northeast Ohio Medical University, Rootstown, Ohio
 2018 **Microscopy/Microanalysis Summer School 2018** at Liquid Crystal Institute at Kent State University, Kent, Ohio.
 2017 Attended lectures, symposiums and posters at **society of neuroscience (SFN)** meeting and presented the poster titled "The effect of Nrf2 transcription factor knock-out on glaucoma."
 2017 **Aging Eye Summit**
 2016 Attended lectures, symposiums and posters at **American association of pharmaceutical sciences (AAPS)** meeting and presented the poster titled " Novel Nanoparticles Engineered from Binary Mixtures of Capmul MCM-C10 and Cetyl Alcohol as a Potential Delivery System in Cancer Therapy."
 2015 **2015 UIC Glaucoma Symposium**
 University of Illinois at Chicago, College of Medicine, Chicago, IL
 Awarded 6.5 contact hours
 2015 **Antimicrobial Dosing Regimen Matters**
 University of Illinois at Chicago, College of Pharmacy, Chicago, IL
 Awarded 1.0 contact hours (0.1CEUs).
 2013-2015 **Malcolm X College, certification obtained (20hrs)**
 Math (Calculus), Science, English composition and Humanities courses
 Honor Program, Certified by PHI THETA KAPPA/ HONOR Society, GPA: 4.00
 2014 **A Review of Treatment Recommendations for Iron Deficiency Anemia in Inflammatory Bowel Disease**
 Awarded 2.0 contact hours (0.2 CEUs)
 2014 **Updates in Critical Care, Hemorrhage to Homeostasis: Contemporary issues in Anticoagulation.** University of Illinois at Chicago, College of Pharmacy, Chicago, IL
 Awarded 2.0 contact hours (0.2CEUs).
 2014 **Targeting Cancer Annual Update in Oncology Pharmacy Conference**
 University of Illinois at Chicago, College of Pharmacy, Chicago, IL
 Awarded 4.0 contact hours (0.4 CEUs).
 2013 **Targeting Cancer Annual Update in Oncology Pharmacy Conference**
 University of Illinois at Chicago, College of Pharmacy, Chicago, IL
 Awarded 4.0 contact hours (0.4 CEUs).
 2013 **Accreditation Council for Pharmacy Education's Pharmacists' Learning Assistance Network (P.L.A.N.)**
 Awarded 12 contact hours (1.2 CEUs).
 2012 **UIC/College of Pharmacy Fall Summit**
 University of Illinois at Chicago, College of Pharmacy, Chicago, IL
 Awarded 5.0 contact hours (0.5 CEUs).

PUBLICATIONS (Previous last name: Jassim-Jaboori)

<https://www.ncbi.nlm.nih.gov/myncbi/assraa.jassim.1/bibliography/public/>

1. **Jassim AH**, Nsiah NY, Inman DM. Ocular Hypertension Results in Hypoxia within Glia and Neurons throughout the Visual Projection. *Antioxidants (Basel)*. 2022 Apr 29;11(5):888. doi: 10.3390/antiox11050888. PMID: 35624752; PMCID: PMC9137916.
2. **Jassim AH**, Inman DM, Mitchell CH. Crosstalk Between Dysfunctional Mitochondria and Inflammation in Glaucomatous Neurodegeneration. *Front Pharmacol*. 2021 Jul 21;12:699623. doi: 10.3389/fphar.2021.699623. Published

3. **Jassim AH**, Cavanaugh M, Shah JS, Willits R, Inman DM. Transcorneal Electrical Stimulation Reduces Neurodegenerative Process in a Mouse Model of Glaucoma. *Ann Biomed Eng.* 2021 Feb;49(2):858-870. doi: 10.1007/s10439-020-02608-8. Epub 2020 Sep 24. PMID: 32974756; PMCID: PMC7854493.
4. Campagno KE, Lu W, **Jassim AH**, Albalawi F, Cenaj A, Tso HY, Clark SP, Sripinun P, Gómez NM, Mitchell CH. Rapid morphologic changes to microglial cells and upregulation of mixed microglial activation state markers induced by P2X7 receptor stimulation and increased intraocular pressure. *J Neuroinflammation.* 2021 Sep 20;18(1):217. doi: 10.1186/s12974-021-02251-7. PMID: 34544431; PMCID: PMC8454080.
5. **Jassim AH**, Fan Y, Pappenhagen N, Nsiah NY, Inman DM. Oxidative Stress and Hypoxia Modify Mitochondrial Homeostasis During Glaucoma. *Antioxid Redox Signal.* 2021 Apr 29. doi: 10.1089/ars.2020.8180. Epub ahead of print. PMID: 33736457. **Figure1, panel C (merged image) was chosen for ARS journal cover**
6. Campagno KE, Lu W, **Jassim AH**, Gómez NM, Mitchell CH. Neurodegeneration and oxidative stress resulting from elevated lysosomal pH in models of chloroquine retinopathy. (In preparation)
7. Harun-Or-Rashid M, Pappenhagen N, Zubricky R, Coughlin L, **Jassim AH**, Inman DM. MCT2 overexpression rescues metabolic vulnerability and protects retinal ganglion cells in two models of glaucoma *Neurobiol Dis.* 2020;104944. doi:10.1016/j.nbd.2020.104944. Published
8. **Jassim AH** and Inman DM. "Evidence of Hypoxic Glial Cells in a Model of Ocular Hypertension." *Invest Ophthalmol Vis Sci.* 2019 Jan 2;60(1):1-15. doi: 10.1167/iovs.18-24977. **Figure1, panel B (merged image) was chosen for IOVS journal cover.** Published
9. **Jassim AH***, Lucy Coughlin*, Mohammad Harun-Or-Rashid, Patrick Kang, Yeong-Renn Chen, Denise M. Inman. "Higher Reliance on Glycolysis Limits Glycolytic Responsiveness in Degenerating Glaucomatous Optic Nerve." *Molecular Neurobiology.* 2019 April 13. <https://doi.org/10.1007/s12035-019-1576-4>. *Both authors contributed equally to this work. Published
10. Ali M, Shah D, Pasha Z, Jassim SH, **Jaboori AJ**, Setabutr, Aakalu VK "Evaluation of Accessory Lacrimal Gland in Muller's Muscle Conjunctival Resection Specimens for Precursor Cell Markers and Biological Markers of Dry Eye Disease." *Curr Eye Res.* 2017 Apr;42(4):491-497. PMID: 27612554. Published.
11. Shah D, Ali M, Pasha Z, **Jaboori AJ**, Jassim SH, Jain S, et al. "Histatin-1 Expression in Human Lacrimal Epithelium." *PLoS One.* 2016 Jan 29;11(1):e0148018. PMID: 26824896. Published.
12. **Jassim-Jaboori AH**, Oyewumi MO. "3D Printing Technology in Pharmaceutical Drug Delivery: Prospects and Challenges." *J Biomol Res Ther.* 2015, 4:e141. Published.
13. Jassim SH, Sivaraman KR, Jimenez JC, **Jaboori AH**, Federle MJ, de la Cruz J, Cortina MS. "Bacteria Colonizing the Ocular Surface in Eyes With Boston Type 1 Keratoprosthesis: Analysis of Biofilm-Forming Capability and Vancomycin Tolerance." *Eye contact lens.* 2015 Jul 1;56(8):4689-96. PMID: 26207304. Published.

POSTERS AND PRESENTATIONS (Previous last name: Jassim-Jaboori)

1. **Jassim AH**. Igniting Students to Reach Their Potentials Is Our Mission as Educators. Innovations in Teaching 2022 Conference- Call for Abstracts, Friday, January 28, 2022 at the University of Texas at Rio Grand Valle (UTRGV), Edinburg campus
2. Lu Wennan, **Jassim AH**, Mas Gomez Nestor, Mitchell M. Claire. Photoreceptor death and RPE oxidative stress in a model of chloroquine retinopathy. ARVO virtual meeting 2021
3. **Jassim AH***, Cavanaugh M*, R Zubricky, Coughlin L, Stukel J, Willits R, Inman DM. Transcorneal Electrical Stimulation Reduces Glaucoma Pathology. *Both authors contributed equally to this work. 2019 ISER/Brightfocus glaucoma symposium: concepts and breakthroughs in glaucoma.
4. Cavanaugh M*, **Jassim AH***, Coughlin L, Stukel J, Willits R, Inman DM. Transcorneal electrical stimulation shown to reduce the signs of glaucoma. *Both authors contributed equally to this work. 2019 Summer Biomechanics, Bioengineering, and Biotransport Conference (SB3C2019). Abstract # 2637.
5. **Jassim, Assraa H.**, and D. M. Inman, "Pre-degenerative Accumulation of Superoxide and Hydroxide in a Chronic Mouse Model of Glaucoma." The association for research in vision and ophthalmology (ARVO). Vancouver, BC. Poster # 669—B0147.
6. **Jassim, Assraa H.**, and D. M. Inman, "The Impact of Elevated Intraocular Pressure on Glaucoma Progression Using an Induced Model in Mice." The sixth annual neuroscience symposium at Kent State University. Ohio. Poster # 28.
7. **A. Jassim. Jaboori** and D. M. Inman, "The effect of Nrf2 transcription factor knockout on glaucoma." Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience 2017. Program No. 50.12.
8. D.M. Inman, **A.H. Jassim-Jaboori**, V. Gevorgyan, P.G. Palmer, "Source of Optic Nerve Metabolic Vulnerability in a Mouse Model of Glaucoma." Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience 2016. Program No. 228.17.
9. **Assraa Jassim-Jaboori**, Kimberly Novak and Moses O. Oyewumi. "Novel Nanoparticles Engineered from Binary Mixtures of Capmul MCM-C10 and Cetyl Alcohol as a Potential Delivery System in Cancer Therapy." American Association of Pharmaceutical Scientists (AAPS) annual meeting. 2015. Poster # 29T1030.

10. Dhara Shah, Marwan Ali, **Assraa Jassim Jaboori**, Sandeep Jain, Vinay K. Aakalu. Histatin-1 is a Marker for Human Lacrimal Epithelium. ARVO annual meeting 2015. Poster # 2488- D0092
11. Ali M, Shah D, Pashs Z, Jassim SH, **Jaboori AJ**, Setabutr P, Aakalu VK, "Evaluation of Accessory Lacrimal Gland in Muller's Muscle Conjunctival Resection Specimens for Precursor Cell Markers and Biological Markers of Dry Eye Disease." Curr Eye Res. 2017 Apr;42(4):491-497. PMID: 27612554
12. Soledad Cortina, **Assraa HJ Jaboori**, Sapna Tibrewal, Sonal Gandhi, Sarmad H Jassim. Biofilm Forming Ability of Bacterial Strains Isolated From the Surface of Implanted Boston Type 1 Keratoprosthesis. American Academy of Ophthalmology Annual Meeting. New Orleans, Louisiana 2013. Poster # PO306.
13. Soledad Cortina, Sarmad H Jassim, Juan C Jimenez, **Assraa HJ Jaboori**, Michael J Federle. "Biofilm forming capability and relative tolerance to Vancomycin of bacterial isolates colonizing the ocular surface of patients with Boston type 1 keratoprosthesis". Ocular Microbiology and Immunology Group meeting within AAO annual meeting. New Orleans, Louisiana 2013. Oral presentation.
14. Jassim, Sarmad H. ; Lin, Amy ; Setabutr,Pete ; **Jaboori, Assraa H.** ;Jain, Sandeep ; Aakalu, Vinay. A Tissue Microarray Analysis of Stem Cells Markers Positive Cells in Human Accessory Lacrimal Glands from Muller Muscle Conjunctival Resection Specimens. ARVO annual meeting 2014. Poster # 3115-A0286.
15. Aakalu, Vinay, Jassim, Sarmad H. ; Lin, Amy ; **Jaboori, Assraa H.** Setabutr,Pete ; ;Jain, Sandeep. Accessory Lacrimal Glands Gene Expression from Human Muller Muscle Conjunctival Resection Specimens Obtained via Laser Capture Microdissection. ARVO annual meeting 2014. Poster # 3115-A0285.

TRANSFERABLE SKILLS

- Strong practical research and teaching background in a diverse community.
 - Grant writing and lecture preparation
 - Timeliness, detail oriented, fast learner, energetic, and work prioritization.
 - Advanced and proficient educational experience specifically in Biology, Neuroscience, Chemistry (Basic, General, and Organic), Physics (Thermodynamics, Waves, and Mechanics) and Mathematics (Algebra and Calculus).
 - Ability to integrate and work well independently and in teams.
 - Proficiency in Microsoft Office, various adobe products, and other application suites
 - Fluency in spoken and written English and Arabic.
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