

# MUSTAPHA A. BELEH

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## EDUCATION

- 1987-1992 College of Pharmacy, The Ohio State University, USA  
**Doctor of Philosophy** degree in Medicinal Chemistry and Pharmacognosy  
**Adviser:** Professor Robert W. Brueggemeier  
**Dissertation Title:** Protein Induction and Estrogen Metabolism in Subcellular Preparations and Tissue Slices of the Golden Syrian Hamster.
- 1980-1985 College of Pharmacy, Alexandria University, Egypt  
**Bachelor of Science** degree in Pharmaceutical Sciences.

## PROFESSIONAL CAREER

- 2023-Present Frank J Ascione Collegiate Teaching Professor and Director of Education, College of Pharmacy, University of Michigan, USA.
- 2022-2023 Collegiate Lecturer and Director of Education, College of Pharmacy University of Michigan, USA.
- 2017-2022 Lecturer and Director of Education, College of Pharmacy, University of Michigan, USA.
- 1999-2017 Lecturer, College of Pharmacy University of Michigan, USA.
- 1998-1999 Lecturer, Department of Chemistry Eastern Michigan University, USA.
- 1996-1998 Research Director, Biochemistry and Biotechnology Section, Pharco Pharmaceuticals, Alexandria, Egypt.
- 1992-1995 Assistant Professor, College of Pharmacy South Dakota State University, USA.
- 1988-1992 Research Fellow, College of Pharmacy The Ohio State University, USA.
- 1987-1988 Teaching Fellow, College of Pharmacy The Ohio State University, USA.
- 1985-1987 Pharmacist, Alexandria, Egypt.

## **PROFESSIONAL AFFILIATIONS AND HONOR SOCIETIES**

- Phi Lambda Sigma Pharmacy Leadership Society.
- Rho Chi Honor Society of Pharmacy.
- American Chemical Society.
- American Association of Colleges of Pharmacy.

## **SELECT PROFESSIONAL HIGHLIGHTS**

- Director, Integration of Medicinal Chemistry and Pharmacology Courses  
College of Pharmacy, University of Michigan
- Reviewer, PharmD Curricular Assessment  
The Ohio State University

## **HONORS AND AWARDS**

- The Golden Apple Award, University of Michigan, March 2022.
- Students' Appreciation Award, College of Pharmacy, University of Michigan, April 2003, 2006, 2009, 2011, 2013, 2014, 2015, 2017, 2019, 2020, 2021, 2022, 2023 and 2024.
- Teaching Excellence Award, College of Pharmacy, University of Michigan, April 2019.
- Recipient of a Special Recognition Award for Teaching, College of Pharmacy, University of Michigan, April 2014.
- Computerworld Honors 21st Century Achievement Finalist Award, Washington DC, June 2005.
- Computerworld Honors Laureate, San Francisco, April 2005.
- The Dean's Award in Excellence in Classroom Teaching, College of Pharmacy, South Dakota State University, April 1995.
- Teacher of the Year, College of Pharmacy, South Dakota State University, March 1995.
- Recipient of the Proctor and Gamble Fellowship, June 1991.
- Graduate Students Alumni Research Award (**GSARA**) at The Ohio State University, March 1990.

## **PUBLICATIONS**

1. DeBiase, C. M., **Beleh, M.**, Bostwick, J. R., Marshall, V. D. and Sweet, B. V. Evaluating Pharmacy Students' Use of ExamSoft-Generated Strength and Opportunity Reports. *Curr Pharm Teach Learn*; **2020**; 12(12), 1431-1436.
2. **Beleh, M.**, Engels, M. and Garcia, G. Integrating Basic Sciences in the Pharm. D. Curriculum: A New Medicinal Chemistry and Pharmacology Course Sequence. *Am J Pharm Educ.* **2015**; 79(1), Article 13.
3. Waldman Dunham, M., Ghirtis, K. and **Beleh, M.** The Use of Virtual Laboratories and Other Web-based Tools in a Drug Assay Course. *Am J Pharm Educ.* **2012**; 76(5), Article 84.
4. **Beleh, M.**, Lin, Y. C. and Brueggemeier, R. W. Comparison of Estrogen Metabolism in Subcellular, Cellular and Tissue Preparations of Kidney and Liver from Syrian Hamsters. *J. Steroid Biochem. Mol. Biol.* **1995**, 52, 479-489.
5. **Beleh, M.**, Brueggemeier, R. W., Chang, G. C. and Lin, Y. C. Biosynthesis and Secretion of Growth Factor Proteins by Kidney Cells from DES-treated Syrian Hamsters. *Biochem. Biophys. Res. Commun.* **1993**, 190, 1029-1036.
6. Brueggemeier, R. W., **Beleh, M.**, Donley, D. and Lin, Y. C. Estrogen Metabolism in Subcellular Preparations and Tissue Cultures of Syrian Hamster Liver and Kidney. In *Hormonal Carcinogenesis*, Li, J. J., Nandi, S. and Li, S. A. eds. Springer-Verlag, NY, **1992**, 259-262.
7. Brueggemeier, R. W., Tseng, K., Katlic, N. E., **Beleh, M.** and Lin, Y. C. Estrogen Metabolism in Primary Kidney Cell Cultures from Syrian Hamsters. *J. Steroid Biochem.* **1990**, 36, 325-331.

## SELECT PRESENTATIONS

1. Godley, E., No, R. and **Beleh, M.** The Use of Online Tools and Learning Exercises in a Medicinal Chemistry and Pharmacology Integrated Course Sequence. ASHP Midyear Clinical Meeting, Las Vegas, Nevada, December **2019**.
2. Khan, N. and **Beleh, M.** The Use of Online Learning Modules to Address Deficiencies in Student Knowledge of Physiology-based Concepts. ASHP Midyear Clinical Meeting, Anaheim, California, December **2018**.
3. Kaip, E., Michaels, D. and **Beleh, M.** Interactive Learning Modules for Integrated Pharmacology and Medicinal Chemistry Topics. ASHP Midyear Clinical Meeting, Anaheim, California, December **2018**.
4. **Beleh, M.** Teaching Students How to Integrate Basic and Clinical Sciences to Enhance Clinical Decision Making. 2018 AACP Annual Meeting: Pharmacy Education 2018, Boston, Massachusetts, July **2018**.
5. Manzo, A., Barron, C., Carrier, K. and **Beleh, M.** Use of a Web-Based Application in an Integrated Pharmacology and Medicinal Chemistry Course. ASHP Midyear Clinical Meeting, Orlando, Florida, December **2017**.
6. **Beleh, M.** The Use of Pre-Course Assessments in Identifying Deficiencies in Knowledge, to Develop Learning Tools and as Predictors of Success. Midwest Teacher-Scholar Retreat, Fort Wayne, Indiana, November **2016**.
7. **Beleh, M.** and Sweet, B. Incorporating Statistics Modules into the PharmD Curriculum: Impact on Student Learning. 2016 AACP Annual Meeting: Pharmacy Education 2016, Anaheim, California, July **2016**.
8. Racz, R., **Beleh, M.**, Chaffee, B. and Sweet B. V. Assessment of student and faculty preferences for professional electives. ASHP Midyear Clinical Meeting, New Orleans, Louisiana, December **2015**.
9. **Beleh, M.** Integrating Medicinal Chemistry and Pharmacology into a New Course Sequence in the PharmD Curriculum. Midwest Teacher-Scholar Retreat, Fort Wayne, Indiana, November **2015**.
10. Leader, L., Sweet, B. and **Beleh, M.** Examining the Effect of Content Sequencing on Student Performance in the New Curriculum and Alignment with Preferred Student Learning Style. 2014 ASHP Midyear Meeting, Anaheim, California, December **2014**.
11. Dela-Pena, J. and **Beleh, M.** Improvement of drug name pronunciation proficiency through the use of a computer-assisted learning tool. 2013 ASHP Midyear Meeting, Las Vegas, Nevada, December **2013**.
12. Abu-Seir, H. and **Beleh, M.** Virtual laboratories and other web-based learning tools. 2013 ASHP Midyear Meeting, Las Vegas, Nevada, December **2013**.

13. Rood, J. M. and **Beleh, M.** Use of online pre-test assessments and learning modules as active learning tools for student pharmacists. 2012 ASHP Midyear Meeting, Las Vegas, Nevada, December **2012**.
14. Engels, M. and **Beleh, M.** Evaluation of a Remediation Plan in a Medicinal Chemistry and Pharmacology Course Sequence. 2012 AACP Annual Meeting: Turn up the Heat on your Professional Development, Kissimmee, Florida, July **2012**.
15. Ghirtis, K., Waldman, M. and **Beleh, M.** Integrating Technology in a Drug Assay Course: The Use of Virtual Labs and Supporting Tools. Panhellenic Pharmacy Congress, Athens, Greece, April **2012**.
16. **Beleh, M.** A Flavor of the Clinical Sciences in a Pharmacology/Medicinal Chemistry Course. 2011 AACP Annual Meeting: Bridges to Our Bright Future, San Antonio, Texas, July **2011**.
17. Dakhlian, D., Johnston, J. and **Beleh, M.** Integrating Technology in a Drug Assay Course; Part I – The Use of Academic Back-Channels (ABCs). Medical Education Day, University of Michigan, June **2010**.
18. Karpinen, K., Johnston, J., Woodard, J. and **Beleh, M.** CALM (Computer-based Assessment and Learning Modules). 2008 AACP Annual Meeting and Seminars: A Bold New World, Chicago, Illinois, July **2008**.
19. Waldman, M., Ghirtis, K. and **Beleh, M.** Integrating Technology in the Laboratory: A Drug Assay Course. 2008 AACP Annual Meeting and Seminars: A Bold New World, Chicago, Illinois, July **2008**.
20. Burke, F., Damm, K., Waldman, M., Ghirtis, K., Woodard, R. and **Beleh, M.** Integrating Technology in the Laboratory: Medicinal Chemistry 409. 233<sup>rd</sup> ACS National Meeting, Chicago, Illinois, March **2007**.
21. Ghirtis, K., Waldman, M., **Beleh, M.**, Rice, K. and Woodard, R. Students' Performance and Appreciation of Internet-based Instructional Technology Applications in Pharmaceutical Analysis Laboratory Course. 2006 ACS Central Regional Meeting, Frankenmuth, Michigan, May **2006**.
22. Amer, R. A., Salama, O. M. and **Beleh, M.** Production and Purification of Citric Acid from *Aspergillus niger*. Fourth Scientific Conference, National Organization for Drug Control and Research, Cairo, Egypt, March **1998**.
23. ElShehawy, R. M., Salama, O. M. and **Beleh, M.** Production and Purification of Alpha Amylase from Bacillus species. Fourth Scientific Conference, National Organization for Drug Control and Research, Cairo, Egypt, March **1998**.
24. Smar, M. W. and **Beleh, M.** Developing Critical and Creative Thinking Skills in Medicinal Chemistry. AACP 95th Annual Meeting, Albuquerque, New Mexico, July **1994**.

25. **Beleh, M.**, Lin, Y. C. and Brueggemeier, R. W. Estrogen-induced Protein Biosynthesis in Golden Syrian Hamster Kidney Cells. Twenty Fifth Annual Symposium in Medicinal Chemistry, Ann Arbor, Michigan, June **1992**.
26. **Beleh, M.**, Donley, D., Lin, Y. C. and Brueggemeier, R. W. Estrogen Metabolism in Subcellular Preparations and Tissue Cultures of Syrian Hamster Liver and Kidney. International Symposium on Hormonal Carcinogenesis, Cancun, Mexico, March **1991**.
27. **Beleh, M.**, Tseng, K., Katlic, N. E., Lin, Y. C. and Brueggemeier, R. W. Estrogen Metabolism in Primary Kidney Cell Cultures from Syrian Hamsters. Twenty Third Annual Symposium in Medicinal Chemistry, Pittsburgh, PA, June **1990**.