

PERSONAL DETAILS

Name: Eman Mahmoud Elawady Dokla
Email: emanelawady@pharma.asu.edu.eg

EDUCATION HISTORY

Oct 2010 – Nov 2015 **PhD of Pharmaceutical Sciences (Pharmaceutical Chemistry)**, Faculty of Pharmacy, ASU, Cairo, Egypt and College of Pharmacy, OSU, Ohio, USA (Joint Supervision Jan 2013 - April 2015)

May 2005 – June 2010 **Master of Pharmaceutical Sciences (Pharmaceutical Chemistry)**, Faculty of Pharmacy, ASU, Cairo, Egypt

Sep 1999 – May 2004 **Bachelor of Pharmaceutical Sciences, (90.53%)**, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt

WORK EXPERIENCE

Nov 2019 – April 2020 **Visiting postdoctoral researcher**, Department of pharmaceutical chemistry and clinical pharmacy, Institute of Pharmacy, Martin-Luther University, Halle-Wittenberg, Germany

Feb 2016 – Now **Lecturer and Postdoctoral researcher**, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, ASU, Cairo, Egypt

Jan 2013 – April 2015 **Visiting Student researcher**, Department of Medicinal Chemistry and Pharmacognosy, College of Pharmacy, OSU, Ohio, USA

Oct 2010 – Jan 2016 **Assistant Lecturer**, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, ASU, Cairo, Egypt

May 2005 – Sep 2010 **Teaching Assistant**, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, ASU, Cairo, Egypt

LANGUAGE SKILLS

Arabic (native)

English (excellent, both written and spoken)

Toefl Score: 104 (IBT-international – test date: Jan 2012)

IELTS Band Score: 8 (test date: Jan 2017)

PROFESSIONAL EXPERIENCE

Teaching Experience

- Teaching undergraduate theoretical and practical courses in Organic, Pharmaceutical Chemistry and Drug Design.
- Teaching graduate course in Comprehensive Organic Chemistry.

Research Experience

- Excellent experience in Synthetic Chemistry, lead optimization and rational drug design.
- Basic practice of Cell-based cytotoxicity assays.
- Operation of Bruker AV300 and Ascend 400, Waters Micromass Q-ToF Premier Mass Spectrometer and Hitachi 2400 series HPLC system.
- Adequate practice of several modeling software including Accelrys Discovery Studio modules, leadit and FieldAlign.

Advising Experience

- Supervising one PhD and three master students starting August 2016.

- Supervising fifth-year graduation project November-May 2017
- Supervising two undergraduate students, summer internship July – August 2017.

RESEARCH INTERESTS

Applying rational design and modeling techniques to develop novel probes for cancer-related targets as kinases (e.g. AMPK), proteins (PPI inhibitors) and epigenetic targets.

Development of new entities as antimicrobial agents and further optimization to obtain preclinical candidates.

Structure and ligand-based drug design and its applications in drug discovery for various diseases.

RESEARCH PROJECTS AND AWARDS

Joint Supervision Scholarship from the Egyptian Ministry of High Education at The Ohio State University, USA, Jan 2013 – Apr 2015.

ASU research grant for "Discovery of Small Heterocycles with potential AMPK Inhibitory Activity Targeting Cancer" project, Co-PI, 50,000 E£, Nov 2016.

STDF RS youth project No. 39383 "Benzimidazole-based small molecules targeting resistant Escherichia coli infections", team member, 100,000 E£, Oct 2019.

Postdoctoral Fellowship from the Egyptian Ministry of High Education at Martin-Luther University, Halle-Wittenberg, Germany, Nov 2019 – Apr 2020.

PUBLICATIONS

1. **Dokla, E. M. E.***; Abdel-Aziz, A. K.; Milik, S. N.; McPhillie, M. J.; Minucci, S.; Abouzeid, K. A. M. Discovery of a Benzimidazole-Based Dual FLT3/TrkA Inhibitor Targeting Acute Myeloid Leukemia. *Bioorg. Med. Chem.* 2022, 56 116596.
2. **Dokla, E. M. E.***; Abdel-Aziz, A. K.; Milik, S. N.; Mahmoud, A. H.; Saadeldin, M. K.; McPhillie, M. J.; Minucci, S.; Abouzeid, K. A. M. Indolin-2-One Derivatives as Selective Aurora B Kinase Inhibitors Targeting Breast Cancer. *Bioorg. Chem.* 2021, 117, 105451.
3. Shalaby, M. A. W.; **Dokla, E. M. E.***; Serya, R. A. T.; Abouzeid, K. A. M. Penicillin Binding Protein 2a: An Overview and a Medicinal Chemistry Perspective. *Eur. J. Med. Chem.* 2020, 199, 112312.
4. **Dokla, E. M. E.**; Fang, C.-S.; Chu, P.-C.; Chang, C.-S.; Abouzeid, K. A. M.; Chen, C. S. Targeting YAP Degradation by a Novel 1,2,4-Oxadiazole Derivative via Restoration of the Function of the Hippo Pathway. *ACS Med. Chem. Lett.* 2020, 11 (4), 426–432.
5. **Dokla, E. M. E.***; Abutaleb, N. S.; Milik, S. N.; Li, D.; El-Baz, K.; Shalaby, M.-A. W.; Al-Karaki, R.; Nasr, M.; Klein, C. D.; Abouzeid, K. A. M.; Seleem, M. N. Development of Benzimidazole-Based Derivatives as Antimicrobial Agents and Their Synergistic Effect with Colistin against Gram-Negative Bacteria. *Eur. J. Med. Chem.* 2020, 186, 111850.
6. Shalaby, M.-A. W.; **Dokla, E. M. E.**; Serya, R. A. T.; Abouzeid, K. A. M. Identification of Novel Pyrazole and Benzimidazole Based Derivatives as PBP2a Inhibitors: Design, Synthesis, and Biological Evaluation. *Arch. Pharm. Sci. Ain Shams Univ.* 2019, 3 (2), 228–245.
7. **Dokla E.M.E.**, Fang C-S., Abouzeid K.A.M., Chen C.S., 1,2,4-Oxadiazole derivatives targeting EGFR and c-met degradation in TKI resistant NSCLC. *Eur. J. Med. Chem.*, 2019, 182, 111607
8. Weng J.R., **Dokla E.M.E.**, Bai L.Y., Chen C.S., Chiu S.J., Shieh T.M., An AMPK Activator, Compound 59, Induces Autophagy and Apoptosis in Human Oral Squamous Cell Carcinoma. *Basic Clin. Pharmacol. Toxicol.* 2018 Jul;123(1):21-29. [Front Cover]
9. **Dokla E.M.E.**, Fang C-S., Lai P-T., Kulp S.K., Serya R. A. T., Ismail N. S. M., Abouzeid K. A. M., Chen C-S., Development of Potent Adenosine Monophosphate Activated Protein Kinase (AMPK) Activators. *ChemMedChem*, 2015, 10(11), 1915-1923.
10. Ismail M.A.H., Abouzeid K.A.M., Mohamed N.S., **Dokla E.M.E.**, Ligand design, synthesis and biological anti-HCV evaluations for genotypes 1b and 4a of certain 4-(3- and 4-[3-(3,5-dibromo-

8-hydroxyphenyl)-propylamino] phenyl) butyric acids and 3-(3,5-dibromo-4-hydroxyphenyl)-propylamino- acetamidobenzoic acid esters. *J Enzyme Inhib Med Chem*, 2013, 28(6), 1274-1290.

11. **Dokla E.M.E.***, Mahmoud A. H., Elsayed M. S. A., El-Khatib A. H., Linscheid M. W., Abouzid K.A.M., Applying ligands profiling using multiple extended electron distribution based field templates and Feature trees similarity searching in the discovery of new generation of urea-based antineoplastic kinase inhibitors. *PLOS ONE*, 2012, 7(11), e49284.