



Moustafa Gabr

Postdoctoral Research Fellow, Radiology

Bio

HONORS AND AWARDS

- Lynn Anderson Research Excellence Award, University of Iowa (2018)
- Innovator Award, University of Iowa (2018)
- Life Sciences Postdoctoral Fellowship (Gratefully declined), University of Michigan (2018)
- ACS Division of Inorganic Chemistry (DIC) Travel Award 2019, ACS (2019)
- Graduate College, University of Iowa Travel Award, University of Iowa (2019)
- ACS Division of Organic Chemistry (ORGN) Travel Award, ACS (2018)
- Ballard Seashore Dissertation Fellowship, University of Iowa (2018)
- Graduate College, University of Iowa Travel Award, University of Iowa (2018)
- University of Iowa Semester Fellowship in Radiochemistry, University of Iowa (2018)
- Graduate College Summer Fellowship, University of Iowa (2017)
- Outstanding Teaching Award, University of Iowa (2017)
- Distinguished Master's Thesis Award in Mansoura University for 2014/2015, Mansoura University (2015)
- University of Iowa Graduate College Fellowship in Radiochemistry, University of Iowa (2015)
- RSC Travel Award to 3rd RSC Young Members Symposium, Royal Society of Chemistry (RSC) (2014)
- University of Jena Travel Award to JCF spring symposium 2014, University of Jena (2014)
- Best Poster Award, Al Azhar University (2013)
- Participants Prize in 7th PG Symposium on Biological and Medicinal Chemistry, Cambridge, UK, Royal Society of Chemistry (RSC) (2013)
- Chinese Academy of Sciences Undergraduate Research Scholarship Summer 2010, Chinese Academy of Sciences (2010)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Lead Guest Editor, BioMed Res Int (2019 - present)

PROFESSIONAL EDUCATION

- PhD, University of Iowa , Chemistry (2019)
- MSc, Mansoura University , Medicinal chemistry and drug design (2014)
- BSc, Mansoura University , Pharmaceutical Sciences (2011)

STANFORD ADVISORS

- Sanjiv Gambhir, Postdoctoral Faculty Sponsor

PATENTS

- Chris Pigge, Moustafa Gabr. "United States Patent US Patent App. Serial No. 62/816,421 Dinuclear platinum(II) complexes and methods of use thereof", Mar 11, 2019
- Michael Schultz, Jessica Reedy, Chris Pigge, Moustafa Gabr. "United States Image-guided therapy of cancer", May 29, 2018
- M. Schultz, C. Pigge, M. Li, E. Sagastume,. "United States Patent US Patent App. Serial No. 62/662,074 Compositions for chelating metals at low temperature", May 4, 2018

LINKS

- Twitter: https://twitter.com/MT_Gabr
- <http://moustafagabr.strikingly.com/>: <http://moustafagabr.strikingly.com/>
- https://www.researchgate.net/profile/Moustafa_Gabr: https://www.researchgate.net/profile/Moustafa_Gabr
- <https://www.linkedin.com/in/moustafa-gabr-38315327/>: <https://www.linkedin.com/in/moustafa-gabr-38315327/>

Publications

PUBLICATIONS

- **Multitarget therapeutic strategies for Alzheimer's disease** *NEURAL REGENERATION RESEARCH*
Ibrahim, M. M., Gabr, M. T.
2019; 14 (3): 437–40
- **Synthesis, molecular modeling and biological evaluation of new pyrazolo[3,4-b]pyridine analogs as potential antimicrobial, anti-quorum-sensing and anticancer agents.** *Bioorganic chemistry*
El-Gohary, N. S., Gabr, M. T., Shaaban, M. I.
2019; 89: 102976
- **Platinum(II) Complexes with Sterically Expansive Tetraarylethylene Ligands as Probes for Mismatched DNA** *INORGANIC CHEMISTRY*
Gabr, M. T., Pigge, F.
2018; 57 (20): 12641–49
- **Design and synthesis of donepezil analogues as dual AChE and BACE-1 inhibitors** *BIOORGANIC CHEMISTRY*
Gabr, M. T., Abdel-Raziq, M. S.
2018; 80: 245–52
- **Antioxidant, alpha-glucosidase inhibitory and in vitro antitumor activities of coumarin-benzothiazole hybrids** *HETEROCYCLIC COMMUNICATIONS*
Gabr, M. T.
2018; 24 (5): 243–47
- **Synthesis, antiproliferative activity and autophagic flux inhibition of new arylsparteine derivatives** *PHYTOCHEMISTRY LETTERS*
Gabr, M. T., Abdel-Raziq, M. S.
2018; 27: 203–7
- **Structure-based design, synthesis, and evaluation of structurally rigid donepezil analogues as dual AChE and BACE-1 inhibitors** *BIOORGANIC & MEDICINAL CHEMISTRY LETTERS*
Gabr, M. T., Abdel-Raziq, M. S.
2018; 28 (17): 2910–13
- **Structure-Based Design and Synthesis of Fluorene Derivatives as Novel ROR γ Inverse Agonists** *CHEMISTRY & BIODIVERSITY*
Gabr, M. T., Abdel-Raziq, M. S.
2018; 15 (9): e1800244
- **Rhenium Complexes of Bis(benzothiazole)-Based Tetraarylethylenes as Selective Luminescent Probes for Amyloid Fibrils** *CHEMISTRY-A EUROPEAN JOURNAL*
Gabr, M. T., Pigge, F.
2018; 24 (45): 11729–37

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- **Pharmacophore-based tailoring of biphenyl amide derivatives as selective 5-hydroxytryptamine 2B receptor antagonists** *MEDCHEMCOMM*
Gabr, M. T., Abdel-Raziq, M. S.
2018; 9 (6): 1069–75
 - **Sensitizing Hypoxic Small Cell Lung Cancer Cells to Radiation and Hydrogen Peroxide-Producing Agents Using CuATSM**
Sciegienka, S., Rodman, S., Tomanek-Chalkley, A., Lee, D., Heer, C., Gabr, M., Falls, K., O'Dorisio, S., Spitz, D., Fath, M.
LIPPINCOTT WILLIAMS & WILKINS.2018: 354
 - **A fluorescent turn-on probe for cyanide anion detection based on an AIE active cobalt(II) complex** *DALTON TRANSACTIONS*
Gabr, M. T., Pigge, F.
2018; 47 (6): 2079–85
 - **Salts and Co-Crystalline Assemblies of Tetra(4-Pyridyl)Ethylene with Di-Carboxylic Acids** *CRYSTALS*
Gabr, M. T., Pigge, F.
2018; 8 (1)
 - **Microwave-assisted synthesis, antimicrobial, anti-quorum-sensing and cytotoxic activities of a new series of isatin--thiocarbohydrazones** *SYNTHETIC COMMUNICATIONS*
Gabr, M. T., El-Gohary, N. S., El-Bendary, E. R., Ni, N., Shaaban, M. I., El-Kerdawy, M. M.
2018; 48 (22): 2899–2911
 - **Rhenium tricarbonyl complexes of AIE active tetraarylethylene ligands: tuning luminescence properties and HSA-specific binding** *DALTON TRANSACTIONS*
Gabr, M. T., Pigge, F.
2017; 46 (43): 15040–47
 - **A turn-on AIE active fluorescent sensor for Hg²⁺ by combination of 1,1-bis(2-pyridyl)ethylene and thiophene/bithiophene fragments** *MATERIALS CHEMISTRY FRONTIERS*
Gabr, M. T., Pigge, F.
2017; 1 (8): 1654–61
 - **Isatin-beta-thiocarbohydrazones: Microwave-assisted synthesis, antitumor activity and structure-activity relationship** *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY*
Gabr, M. T., El-Gohary, N. S., El-Bendary, E. R., El-Kerdawy, M. M., Ni, N.
2017; 128: 36–44
 - **MICROWAVE-ASSISTED SYNTHESIS AND ANTITUMOR EVALUATION OF A NEW SERIES OF THIAZOLYLCOUMARIN DERIVATIVES** *EXCLI JOURNAL*
Gabr, M. T., El-Gohary, N. S., El-Bendary, E. R., El-Kerdawy, M. M., Ni, N.
2017; 16: 1114–31
 - **Synthesis and Evaluation of Tetraarylethylene-based Mono-, Bis-, and Tris(pyridinium) Derivatives for Image-Guided Mitochondria Specific Targeting and Cytotoxicity of Metastatic Melanoma Cells** *BIOCONJUGATE CHEMISTRY*
Reedy, J. L., Hedlund, D. K., Gabr, M. T., Henning, G. M., Pigge, F., Schultz, M. K.
2016; 27 (10): 2424–30
 - **Synthesis, in vitro antitumor activity and molecular modeling studies of a new series of benzothiazole Schiff bases** *CHINESE CHEMICAL LETTERS*
Gabr, M. T., El-Gohary, N. S., El-Bendary, E. R., El-Kerdawy, M. M., Ni, N.
2016; 27 (3): 380–86
 - **A selective fluorescent sensor for Zn²⁺ based on aggregation-induced emission (AIE) activity and metal chelating ability of bis(2-pyridyl)-diphenylethylene** *DALTON TRANSACTIONS*
Gabr, M. T., Pigge, F.
2016; 45 (36): 14039–43
 - **AIE Active Heteroarylethylenes** *Aggregation-Induced Emission: Materials and Applications Volume 1*
Gabr, M. T., Pigge, C.
2016
 - **Synthesis, antimicrobial, anti-quorum-sensing and cytotoxic activities of new series of benzothiazole derivatives** *CHINESE CHEMICAL LETTERS*
Gabr, M. T., El-Gohary, N. S., El-Bendary, E. R., El-Kerdawy, M. M., Ni, N., Shaaban, M. I.
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2015; 26 (12): 1522–28

- **Structure-based drug design and biological evaluation of 2-acetamidobenzothiazole derivative as EGFR kinase inhibitor** *JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY*
Gabr, M. T., El-Gohary, N. S., El-Bendary, E. R., El-Kerdawy, M. M.
2015; 30 (1): 160–65
- **New series of benzothiazole and pyrimido[2,1-b]benzothiazole derivatives: synthesis, antitumor activity, EGFR tyrosine kinase inhibitory activity and molecular modeling studies** *MEDICINAL CHEMISTRY RESEARCH*
Gabr, M. T., El-Gohary, N. S., El-Bendary, E. R., El-Kerdawy, M. M.
2015; 24 (2): 860–78
- **Synthesis and aggregation-induced emission properties of pyridine and pyridinium analogues of tetraphenylethylene** *RSC ADVANCES*
Gabr, M. T., Pigge, F.
2015; 5 (110): 90226–34
- **Synthesis and in vitro antitumor activity of new series of benzothiazole and pyrimido[2,1-b]benzothiazole derivatives** *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY*
Gabr, M. T., El-Gohary, N. S., El-Bendary, E. R., El-Kerdawy, M. M.
2014; 85: 576–92
- **EGFR tyrosine kinase targeted compounds: in vitro antitumor activity and molecular modeling studies of new benzothiazole and pyrimido[2,1-b]benzothiazole derivatives.** *EXCLI journal*
Gabr, M. T., El-Gohary, N. S., El-Bendary, E. R., El-Kerdawy, M. M.
2014; 13: 573–85
- **Tris(2,2'-bipyridyl) ruthenium(II) electrochemiluminescence of glyoxal, glyoxylic acid, methylglyoxal, and acetaldehyde** *ELECTROCHIMICA ACTA*
Qi, W., Gabr, M., Liu, Z., Hu, L., Han, M., Zhu, S., Xu, G.
2013; 89: 139–43