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Mohamed M. Abd EL Fattah Badr

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Personal Information:

- ✚ Date and place of birth: 16 of Februar 1977 in Menoufia.
- ✚ Gender: male.
- ✚ Marital status: married with three children.
- ✚ Nationality: Egyptian.

Objectives:

- ✚ Interested in challenging position in biochemistry and molecular biology, where my education and skills can be fully utilized, or a position that offers new skills that I am willing to learn and master.
- ✚ To enhance my present knowledge and to take up on new challenges in biochemistry.
- ✚ Developing my interpersonal skills, expanding my network of professional contacts, and increasing my employment opportunities.

Education:

- ✚ Ph.D. degree in Natural Sciences (Biochemistry) from Faculty of Chemistry, Technical University of Kaiserslautern (Germany) in July 2012, a grade of VERY GOOD
Entitled " *The ribosome-inactivating protein gelonin and parts thereof to be employed for a potential treatment of cancer*"
- ✚ M.Sc. degree equivalent to a diploma in Biochemistry from Faculty of Chemistry, Technical University of Kaiserslautern (Germany) in July 2009, With Mark 1.7
Entitled " *The influence of endoplasmic reticulum stress on hypoxia-inducible factor-1-dependent plasminogen activator inhibitor-1 expression*"
- ✚ Diploma, postgraduate courses in biochemistry for two years.
- ✚ B. Sc. in **pharmaceutical sciences** from Al-azhar University (Egypt) in July 2000, a grade of Excellent with Honor degree.

Academic positions:

- | | | |
|---|------------|--|
| ✚ | 2022 | Assistant professor of Biochemistry, Faculty of Pharmacy, Menoufia University. |
| ✚ | 2017- 2022 | Lecturer of Biochemistry, Faculty of Pharmacy, Menoufia University. |
| ✚ | 2013- 2017 | Lecturer of Biochemistry, Faculty of Pharmacy, Al-azhar University. |
| ✚ | 2003- 2009 | Demonstrator of Biochemistry, Faculty of Pharmacy, Al-azhar University. |

Professional Experience:

- + Involved in teaching general biochemistry methods.
- + **A- Cell Biology methods**
 - + 1- Isolation of primary rat hepatocytes by collagenase perfusion method
 - + 2-working with different cell line for example HepG2,HEK 293,.....
 - + 3-Luciferase assay
- + **B- Molecular biology methods**
 - + 1- Polymerase chain reaction
 - + 2- Preparation of DNA plasmids
 - + 3-agarose gel electrophoresis
 - + 4-Western blot and northern blot
 - + 5- MicroRNA assay methods
- + **C. In-Vitro Evaluation of New Anti-Cancer Agents**
 - + 1- In vitro cytotoxicity
 - + 2- kinase enzyme inhibition assays.
 - + 3- Cell Cycle Arrest and Apoptosis

Languages:

- + Arabic: mother language, very good in writing and speaking.
- + English: good command of both written and spoken.
- + German: fair command of spoken and poor of written.

Computer skills:

- + Well-developed computer skills in windows based programs: MS office, Microsoft desktop application.
- + Good knowledge of biochemistry software (professional with some) and Internet usage.
- + Flexible to learn other if needed.

Non-Technical Skills:

- + Respect the value of time.
- + Good participant with others.
- + Self-driven, highly motivated, and well organized.
- + Hard worker.
- + Ability to work under pressure.

Scholarships and Awards:

Egyptian ministry of higher education and scientific research scholarship for Ph.D.

List of Publications

1. **Badr M**: The influence of endoplasmic reticulum stress on hypoxia-inducible factor-1-dependent plasminogen activator inhibitor-1 expression. 2009.
2. **Badr M**: The ribosome-inactivating protein gelonin and parts thereof to be employed for a potential treatment of cancer. 2012.
3. **Badr M**, Kopp C, Theison S, Meyer J, Trommer WE: Methotrexate-gelonin conjugate - an inhibitor of MCF-7 cells expressing the dihydrofolate receptor. *Biol Chem* 2014, 395(12):1461-1466.
4. Elshimy R, El-Mahdy HA, Mansour OA, **Badr M**, Ali AM: MiR-133a and MiR-155 as potential minimally invasive biomarkers in breast cancer. *Cancer Biology* 2017, 7(1):96-105.
5. Yehia A, **Badr M**, El-Emery F, El-Zahabi M: Clinical significance of periostin in Egyptian asthmatic patients. *American Journal of Physiology, Biochemistry and Pharmacology* 2017, 6(1):16-20.
6. Gomaa MH, Ali SS, Fattouh AM, Hamza HS, **Badr MM**: MBL2 gene polymorphism rs1800450 and rheumatic fever with and without rheumatic heart disease: an Egyptian pilot study. *Pediatr Rheumatol Online J* 2018, 16(1):24.
7. Hegazy MM, Abonama OM, Mohammad AS, Abouelnour E, **Badr M**, Elhalfawy IA: THE ROLE OF INDIAN COSTUS AGAINST TOXICITY OF THERMALLY OXIDIZED PALM OIL IN ALBINO RATS. *The Egyptian Journal of Forensic Sciences and Applied Toxicology* 2020, 20(3):23-40.
8. Kamal M, **Badr M**, Mansour O: PROTECTIVE EFFECT OF QUERCETIN AGAINST STATINS INDUCED-HEPATOTOXICITY IN CELL LINE. *Al-Azhar Journal of Pharmaceutical Sciences* 2020, 62(2):135-151.
9. Bass AKA, El-Zoghbi MS, Nageeb EM, Mohamed MFA, **Badr M**, Abuo-Rahma GEA: Comprehensive review for anticancer hybridized multitargeting HDAC inhibitors. *Eur J Med Chem* 2021, 209:112904.
10. Abdel-Aal, M. A. A.; Shaykoon, M. S. A.; Abuo-Rahma, G. E. A. A.; Mohamed, M. F.; **Badr, M.**; Abdel-Aziz, S. A. Synthesis, antitumor, antibacterial and urease inhibitory evaluation of new piperazinyl N-4 carbamoyl functionalized ciprofloxacin derivatives. *Pharmacol Rep* 2021, 73 (3): 891-906 .
11. Bass AK, Abdelhafez E, El-Zoghbi M, Mohamed MF, **Badr M**, Abuo-Rahma GE-DA: 3-Cyano-2-oxa-pyridines: a promising template for diverse pharmacological activities. *Journal of advanced Biomedical and Pharmaceutical Sciences* 2021, 4(2):81-86.

12. Hassan A, **Badr M**, Hassan HA, Abdelhamid D, Abuo-Rahma GEA: Novel 4-(piperazin-1-yl) quinolin-2(1H)-one bearing thiazoles with antiproliferative activity through VEGFR-2-TK inhibition. *Bioorg Med Chem* 2021, 40:116168.
13. Aziz HA, El-Saghier AMM, **Badr M**, Abuo-Rahma GEA, Shoman ME: Thiazolidine-2,4-dione-linked ciprofloxacin derivatives with broad-spectrum antibacterial, MRSA and topoisomerase inhibitory activities. *Molecular Diversity* 2021: 1-17.
14. Elfarargy MS, **Badr M**, El-Tabaa EF: Zinc supplementation in neonatal bronchopulmonary dysplasia: Is it beneficial? *Current Pediatric Research*, 2021, 25(7): 652–656
15. Ezelarab HAA, Abbas SH, Abourehab MAS, **Badr M**, Sureram S, Hongmanee P, Kittakoop P, Abuo-Rahma GE-DA, Hassan HA: Novel antimicrobial ciprofloxacin-pyridinium quaternary ammonium salts with improved physicochemical properties and DNA gyrase inhibitory activity. *Medicinal Chemistry Research* 2021, 30(12), 2168-2183 .
16. Fareed MR, Shoman ME, Hamed MIA, **Badr M**, Bogari HA, Elhady SS, Ibrahim TS, Abuo-Rahma GEA, Ali TFS: New Multi-Targeted Antiproliferative Agents: Design and Synthesis of IC261-Based Oxindoles as Potential Tubulin, CK1 and EGFR Inhibitors. *Pharmaceuticals (Basel)* 2021, 14(11)
17. Bass AKA, Nageeb EM, El-Zoghbi MS, Mohamed MFA, **Badr M**, Abuo-Rahma GEA: Utilization of cyanopyridine in design and synthesis of first-in-class anticancer dual acting PIM-1 kinase/HDAC inhibitors. *Bioorg Chem* 2022, 119:105564.
18. Hassan A, **Badr M**, Abdelhamid D, Hassan HA, Abourehab MAS, Abuo-Rahma GEA: Design, synthesis, in vitro antiproliferative evaluation and in silico studies of new VEGFR-2 inhibitors based on 4-piperazinylquinolin-2(1H)-one scaffold. *Bioorg Chem* 2022, 120:105631.
19. Hamed, A. N. E., M. E. Abouelela, A. E. El Zowalaty, **M. M. Badr** & M. S. A. Abdelkader: Chemical constituents from *Carica papaya* Linn. leaves as potential cytotoxic, EGFRwt and aromatase (CYP19A) inhibitors; a study supported by molecular docking. *RSC Advances* 2022, 12, 9154-9162
20. Mohammed, H.H.H., Ali, D.M.E., **Badr, M.** et al. Synthesis and molecular docking of new N4-piperazinyl ciprofloxacin hybrids as antimicrobial DNA gyrase inhibitors. *Mol Divers* (2022). <https://doi.org/10.1007/s11030-022-10528-z>
21. Abdelfattah Hassan, Fawzy A. F. Mubarak, Ihsan A. Shehadi, Ahmed M. Mosallam, Hussain Temairk, **Mohamed Badr** & Aboubakr H. Abdelmonsef : Design and biological evaluation of 3-substituted quinazoline-2,4(1H,3H)-dione derivatives as dual c-Met/VEGFR-2-TK inhibitors, *Journal of Enzyme Inhibition and Medicinal Chemistry*,(2023) 38:1, DOI: 10.1080/14756366.2023.2189578

22. Hassan, Abdelfattah, Ahmed M. Mosallam, Amal OA Ibrahim, Mohamed Badr, and Aboubakr H. Abdelmonsef. "Novel 3-phenylquinazolin-2, 4 (1 H, 3 H)-diones as dual VEGFR-2/c-Met-TK inhibitors: design, synthesis, and biological evaluation." *Scientific Reports* 13, no. 1 (2023): 18567.

References:

Prof. Dr. Osama Mansour

Biochemistry Department-Faculty of Pharmacy, Al-azhar University.

Prof. Dr. Wafaa Zahran

Microbiology Department-Faculty of Medicine , Menoufia Universty

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57220186177>

Google Scholar:<https://scholar.google.com/citations?hl=ar&user=1IEWtHoAAAAJ>

Researchgate:<https://www.researchgate.net/profile/Mohamed-Badr-35>

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