

Curriculum Vitae of Dr. Amany belal mohamed mehany

Personal Data

Name: Amany Belal Mohammed Mohani
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Current Position: Assistant professor at Pharmaceutical Chemistry department, Faculty of Pharmacy, Taif University, Taif, KSA.

Education

- B. Sc. Pharmacy and Pharmaceutical Sciences, **Cairo University, Egypt**- Beni-suef branch (excellent honor) may 2001.
- M. Sc. Pharmaceutical Sciences (Pharmaceutical Chemistry), Faculty of Pharmacy, Cairo University, 2007, entitled: “Synthesis of Some pyrrolizine Derivatives of Anticipated pharmacological Activity”.
- Ph. D. Pharmaceutical Sciences (Pharmaceutical Chemistry), Faculty of Pharmacy, Beni-Suef University, Oct 2010, entitled: “Synthesis of some novel pyrrolizine derivatives of expected biological activity.
- Associate professor (medicinal chemistry), Faculty of pharmacy, Beni-suef university, Dec. 2015.

Professional Appointments

- Demonstrator in Pharmaceutical Chemistry Department, Faculty of Pharmacy, Cairo University (Beni-Suef branch) Jan 2002-2007.
- Assistant Lecturer of Pharmaceutical Chemistry, Faculty of Pharmacy, Beni-Suef University, 2007-2010.
- Lecturer of Medicinal Chemistry, Faculty of Pharmacy, Beni-Suef from 26-10- 2010 till 30 Aug 2012.
- Assistant professor at Pharmaceutical chemistry department, Faculty of pharmacy, Taif university, Taif, KSA. (2012-Currently).

Teaching Activities

1. Teaching and supervising the practical courses of Medicinal Chemistry for the undergraduate students (fourth & fifth year) in Faculty of Pharmacy, Beni-Suef University. (2010/2011 and 2011/2012). (Jan 2011 – Aug 2012)
2. Participation in the practical and theoretical books for the third year students (clinical pharmacy, fifth and sixth level). (2010/2011 and 2011/2012).
3. Participation in the practical and theoretical books for the fourth year students , in Faculty of Pharmacy, Beni-Suef University. (2010/2011 and 2011/2012).
4. Participation in the practical and theoretical books for the fifth year students, in Faculty of Pharmacy, Beni-Suef University. (2010/2011 and 2011/2012).
5. Oral examiner for undergraduate students in faculties of pharmacy Beni-Suef (all med. Chem.. courses, 801, 802, 803, med. Chem. 1 and 2), (2010/2011 and 2011/2012), and Nahda university (14-1-2012) med. Chem. 2 course.
6. Supervising the summer training of undergraduate students at Faculty of Pharmacy, Beni-Suef University. (2010/2011)
7. Teaching and supervising in Medicinal Chemistry for the postgraduate students in Faculty of Pharmacy, Beni-Suef University. (2011)
8. Assistant professor at pharmaceutical chemistry department, Taif university. (Currently).

9. Teaching Pharmaceutical organic chemistry, Medicinal Chemistry 1, 2 and 3 at Taif University, Faculty of pharmacy, Female section.

University website: www.bsu.edu.eg , mail (amany.mehani@pharm.bsu.edu.eg)

Conferences and workshops:

- First scientific Conference of Faculty of Pharmacy Cairo University, 1st April, 2008, Cairo, Egypt.
- Second Scientific Conference of the Faculty of Pharmacy, Cairo University, April 26th, 2010, Cairo, Egypt.
- How to write a research project, at Beni-Suef University (31/1/2012).
- Nanoscience and Nanotechnology workshop at Beni-Suef University 9-12 Apr.2012.
- BMJ Best practice and BMJ Journals at Taif University.
- Seminar on (Bioscience smart tools for enhancing your research). 14-11-2013. Taif University.
- A promise is a promise time for action to end violence against women. 23-2-2014, Taif University.
- Recent Advances in CNS Acting Drugs. 8-5-2014, Taif university.
- Recent advances in chemistry and biology of natural products. 4-8-2014, Beni-Suef University.
- Application of citation manager software endnote. 5-3-2015, Taif university.

Research interest and experience:

- Structure-based drug design and Molecular docking studies.
- Synthesis and structural elucidation of the new compounds.
- New compounds characterization.
- Design and synthesis of the novel promising bioactive compounds.
- Indolizines, pyrrolizines and pyrroloazepine scaffolds.
- Computational medicinal chemistry.

List of Publications

- 1- (synthesis of some pyrrolizine derivatives of anticipated pharmacological activity), S. M. moghazi, M. M. Hanna, Awatef F., **Amany B. mohammed**. poster presented at the First scientific Conference of Faculty of Pharmacy, Cairo University, 1st April, **2008**, Cairo, Egypt.
- 2-(synthesis of some pyrrolizine derivatives as potential antitumor), M. M. Hanna, Nagwa M. A., **Amany B. mohammed**. Poster presented at the 2nd Scientific Conference of the Faculty of Pharmacy, Cairo University, April 26th, **2010**, Cairo, Egypt.
- 3- Hanna M. M., Abdelgawad N. M., Ibrahim N. A., **Amany B. Mohammed**; Synthesis and antitumor evaluation of some novel pyrrolizine derivatives". *Med Chem Res* (**2012**) 21:2349–2362. DOI 10.1007/s00044-011-9761-7.
- 4- Mohamed A. Abdelgawad, **Amany Belal** and Osama M. Ahmed. Synthesis, molecular docking studies and cytotoxic screening of certain novel thiazolidinone derivatives substituted with benzothiazole or benzoxazole. *Journal of Chemical and Pharmaceutical Research*, **2013**, 5(2):318-327.
- 5- Mohamed A. Abdelgawad, **Amany Belal**, Hany A. Omar, Lamees Hegazy, and Mostafa E. Rateb. Synthesis, Anti-Breast Cancer Activity, and Molecular Modeling of Some Benzothiazole and Benzoxazole Derivatives. *Arch. Pharm. Chem. Life Sci.* **2013**, 346(7), 534–541. DOI: 10.1002/ardp.201300044.
- 6- Khaled R.A. Abdellatif, **Amany Belal** and Hany A. Omar. Design, synthesis and biological evaluation of novel triaryl (Z)-olefins as tamoxifen analogues. *Bioorganic & Medicinal Chemistry Letters*, **2013**, 23(17), 4960-4963. <http://dx.doi.org/10.1016/j.bmcl.2013.06.056>.

- 7- **Amany Belal** and Bahaa El-Dien M. El-Gendy. Pyrrolizines: Promising scaffolds for anticancer drugs. *Bioorganic & Medicinal Chemistry*. 2014 (22), 46-53. <http://dx.doi.org/10.1016/j.bmc.2013.11.040>.
- 8- **Amany Belal**, Design, synthesis and anticancer activity evaluation of some novel pyrrolo [1,2-a] azepine derivatives. *Arch. Pharm. Chem. Life Sci.* **2014**, 347, 515–522. DOI : 10.1002/ardp.201400004.
- 9- Marwa F. Ahmed, Mahmoud Youns and **Amany Belal**. Design, Synthesis, Molecular Docking and Anti-breast Cancer Activity of Novel Quinazolinones Targeting ER α . *Acta Poloniae Pharmaceutica – Drug Research*, **2016** Jan-Feb;73(1):115-27.
- 10- **Amany Belal**, Synthesis, molecular docking and antitumor activity of novel pyrrolizines with potential as EGFR-TK inhibitors. *Bioorganic Chemistry*, Volume 59, April **2015**, Pages 124–129. <http://dx.doi.org/10.1016/j.bioorg.2015.02.006>.
- 11- **Amany Belal**, Ahmed M. Gouda, Ahmed Safwat Ahmed, Nagwa M. Abdel Gawad. Synthesis of novel indolizine, diazepino indolizine and Pyrimidoindolizine derivatives as potent and selective anticancer agents. *Research on Chemical Intermediates*, December **2015**, Volume 41, Issue 12, pp 9687–9701, DOI : 10.1007/s11164-015-1958-9.
- 12- Marwa F. Ahmed, **Amany Belal**, Mahmoud Youns. Design, synthesis, molecular modelling and anti-breast cancer activity of novel quinazolin-4-one derivatives linked to thiazolidinone, oxadiazole or pyrazole moieties. *Medicinal chemistry research*, **2015**, 24:2993–3007. DOI : 10.1007/s00044-015-1357-1.
- 13- Marwa F. Ahmed and **Amany Belal**. Design, Synthesis and Molecular Docking Studies of 2-(Furan-2-yl) Quinazolin-4-one Derivatives as Potential Antiproliferative Agents. *Archiv der Pharmazie*, **2015**, 348(7), 487–497.
- 14- Daren A. Jaiash, **Amany Belal**, Mohamed A. Abdelgawad, Khaled R. A. Abdellatif. Design, Synthesis and biological evaluation of new pyrroloazepines with potential and selective antitumor activity. *Acta Polonia Pharm Drug Research*, **2016** Mar-Apr;73(2):359-68..
- 15- Marwa F. Ahmed and **Amany Belal**. Synthesis, characterization and biological

evaluation of new quinazolin-4-one derivatives hybridized with pyridine or pyran moiety.", *Research on Chemical Intermediates*, February **2016**, Volume 42, Issue 2, pp 659-671 (DOI : 10.1007/s11164-015-2048-8).

16-Samir M El-Moghazy, Mona M Hanna, Awatef El-Said Farag and **Amany Belal**.

Synthesis and Biological Evaluation of Some Novel Substituted Pyrrolizines and Pyrimidopyrrolizines as Chemotherapeutic Agents. *Der Chemica Sinica*, **2017**, 8(1):102-116.

17- **Amany Belal** and Mohamed A. Abdelgawad, New benzothiazole/benzoxazole-pyrazole hybrids with potential as COX inhibitors: design, synthesis and anticancer activity evaluation. (**2017**) *Research on Chemical Intermediates*, 43 (7), pp. 3859-3872. DOI: 10.1007/s11164-016-2851-x.

18- Magdy A. H. Zahran, Bishoy El-Aarag, Ahmed B. M. Mehany, **Amany Belal**, Ali S. Younes, Design, synthesis, biological evaluations, molecular docking and *in vivo* studies of novel phthalimide analogs, *Arch Pharm Chem Life Sci*. **2018**, <https://doi.org/10.1002/ardp.201700363> .

19-M. K. Ibrahim, M. S. Taghour, A. M. Metwaly, **A. Belal**, A. B. M. Mehany, M. A. Elhendawy, M. M. Radwan, A. M. Yassin, N. M El-Deeb, E. E. Hafez, M. A. ElSohly and I. H. Eissa. Design, synthesis, molecular modeling and anti-proliferative evaluation of novel quinoxaline derivatives as potential DNA intercalators and topoisomerase II inhibitors. *Europ J Med Chem*, 155, **2018**, 117-134.

20-Yousry A. Ammar, Ahmed M. Sh. El-Sharief, **Amany Belal**, Samir Y. Abbas, Yehia A. Mohamed, Ahmed B. M. Mehany and Ahmed Ragab. Design, synthesis, antiproliferative activity, molecular docking and cell cycle analysis of some novel (morpholinosulfonyl) isatins with potential EGFR inhibitory activity. *Europ J Med Chem*, **2018**, 156, 918-932.

21-**Amany Belal**, Pyrrolizines as Potential Anticancer Agents: Design, Synthesis, Caspase-3 activation and Micronucleus (MN) Induction, *Anti-Cancer Agents in Medicinal Chemistry*, **2018**, DOI : 10.2174/1871520618666180409155520.

22- **Amany Belal**, Drug likeness, Targets, Molecular Docking and ADMET Studies for some Indolizine Derivatives, **2018**, *Die Pharmazie*, 11(73), 635-642.

23-Ahmed M. Sh. El-Sharief, Yousry A. Ammar, **Amany Belal**, Marwa A.M. Sh.El-Sharief, Yehia A.Mohamed, Ahmed B. M. Mehany, Gameel A.M.Elhag Ali, Ahmed Ragab, Design,

synthesis, molecular docking and biological activity evaluation of some novel indole derivatives as potent anticancer active agents and apoptosis inducers,

Bioorganic Chemistry, Volume 85, April **2019**, Pages 399-412.

<https://doi.org/10.1016/j.bioorg.2019.01.016>

24- MF Ahmed, D Jaiash, **Amany Belal**, Synthesis and design of new bromoquinazoline derivatives with anti-breast cancer activity, *Acta Pol Pharma*, **2017**, 74 (5), 1437-1445.

25- Ibrahim H Eissa, Ahmed M Metwaly, **Amany Belal**, Ahmed B. M. Mehany, Rezk R Ayyad, Khaled El Adl, Hazem A Mahdy, Mohammed S Taghour, Kamal MA El Gamal, Mohamad E El Sawah, Souad A Elmetwally, Mostafa A Elhendawy, Mohamed M Radwan, Mahmoud A ElSohly. Discovery and antiproliferative evaluation of new quinoxalines as potential DNA intercalators and topoisomerase II inhibitors, *Archiv der Pharmazie* **2019**.

26- Mohamed R Selim, Medhat A Zahran, **Amany Belal**, Moustafa S Abusaif, Said A Shedid, Ahmed Mehany, Gameel AM Elhagali, Yousry A Ammar. Hybridized Quinoline Derivatives as Anticancer Agents: Design, Synthesis, Biological Evaluation and Molecular Docking. *Anti-Cancer Agents in Medicinal Chemistry*, **2019** (4), 439-452.

27- M Alrobaian, SA Azwari, **Amany Belal**, HA Eldeab. A n Eco-Friendly Technique: Solvent-Free Microwave Synthesis and Docking Studies of Some New Pyridine Nucleosides and Their Pharmacological Significance. *Molecules*, **2019**, 10(24), 1969.

28- Hazem A Mahdy, Mohammed K Ibrahim, Ahmed M Metwaly, Amany Belal, Ahmed BM Mehany, Kamal MA El-Gamal, Abdou El-Sharkawy, Mostafa A Elhendawy, Mohamed M Radwan, Mahmoud A Elsohly, Ibrahim H Eissa. Design, synthesis, molecular modeling, in vivo studies and anticancer evaluation of quinazolin-4 (3H)-one derivatives as potential VEGFR-2 inhibitors and apoptosis inducers. *Bioorganic Chemistry*, 94, Publication date 2020/1/1. Pages 103422.

29- Abeer M El-Naggar, Ibrahim H Eissa, Amany Belal, Amira A El-Sayed. Design, eco-friendly synthesis, molecular modeling and anticancer evaluation of thiazol-5 (4 H)-ones as potential tubulin polymerization inhibitors targeting the colchicine . *RSC Advances*, 2020,10(5), Pages 2791-2811.

30- Khaled RA Abdellatif, Amany Belal, Mohamed T El-Saadi, Noha H Amin, Eman G Said, Loah R Hemedda. Design, synthesis, molecular docking and antiproliferative activity of some

Reviewer in the following international journals:-

- 1- Computational Biology and Chemistry (Impact factor, 1.4).
- 2- Arch. Pharm. Chem. Life Sci (Impact factor, 1.9).
- 3- Beni-Suef University Journal of Basic and Applied Sciences.
- 4- Medicinal chemistry research (Impact factor, 1.4).
- 5- Deanship of scientific research- King Faisal University- KSA.
- 6- Deanship of scientific research- Tabuk University- KSA.

Grants :

The P.I. in the following grants :

- 1-**Amany Belal**, Design, synthesis and anti-inflammatory evaluation of some novel pyrrolizine derivatives, 1-434-2358. (Taif Univ.).
- 2-**Amany Belal**, Design, synthesis and antitumor activity evaluation of some novel substituted pyrrolizine and pyrimidopyrrolizine derivatives. 1-435-3287. (Taif Univ.).
- 3-**Amany Belal**, Synthesis, DNA binding affinity and biological activity evaluation of some novel pyrrolizine and pyrimidopyrrolizine derivatives.1-437-4792. (Taif Univ.).
- 4-**Amany Belal**, New bioactive indolizine molecules: Design, synthesis, anticancer activity, mechanism and molecular docking studies. 1-438-5517. (Taif Univ.).

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