

CURRICULUM VITAE

EMAN RADY EL-BENDARY, Ph.D.

Personal Data:

Name : Eman Rady El-bendary
Profession : Professor of Medicinal Chemistry, Faculty of Pharmacy, University of Mansoura, Mansoura, Egypt.
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Telephone : Home: 0502263040 Mobile: 01005174242
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Birth Date : January, 29, 1962
Place of birth : Mansoura - Egypt.
Marital Status : Married, three children.



Education

- ◆ **Ph.D. (Medicinal Chemistry), 1995.**
University of Mansoura, Mansoura, Egypt.
Dissertation: (Design and Synthesis of Certain Heterocyclic Nitrogenous Compounds as Potential Anti-inflammatory Agents).

- ◆ **M.Sc. (Medicinal Organic Chemistry), 1991.**
University of Mansoura, Mansoura, Egypt.
Dissertation: (Some Quinoxaline and Triazole Derivatives as Antimicrobial Agents, Synthesis and Characterization).

- ◆ **B.Sc. (Pharmaceutical Sciences), 1986.**
Faculty of Pharmacy, University of Mansoura, Mansoura, Egypt.

Professional Experiences:

- ◆ Professor of Medicinal Chemistry, Faculty of Pharmacy, University of Mansoura, Mansoura from **19/9/2014** – till now.
- ◆ A post-doctoral fellowship in Pharmaceutical Institute, Bonn University, Germany July 1999-December 1999.
- ◆ Visiting Professor to Garyounis University, Faculty of Pharmacy, Benghazi, Libya for teaching condensed courses and external examiner in pharmaceutical chemistry for undergraduates (third and fourth year).

 *Director of Quality Assurance Unit, Faculty of Pharmacy, Mansoura University (5/2012-till 5/2015).*

 *Head of the Medicinal Chemistry Department, Faculty of Pharmacy, Mansoura University (9/2015-till now).*

Teaching experience

- ◆ Medicinal and Pharmaceutical Organic Chemistry courses for undergraduate students:-

1. Organic Medicinal chemistry: A standard courses offered to the third and fourth year class. Faculty of Pharmacy. Emphasis on uses for undergraduate students:

The courses include physicochemical properties of drugs in relation to biological actions, drug metabolism, drug acting on the peripheral nervous system [parasympathetic nervous system and adrenergic drugs], antihistamines, central nervous system stimulants, & depressants, diuretics, cardiovascular agents, drug design and development and chemotherapeutic agents.

2. Pharmaceutical Analysis: A laboratory course for the quantitative and qualitative assay for drugs and their impurities.

- ◆ **Post graduate students:**

- Teaching of advanced medicinal chemistry courses for postgraduate students.

Research experience

Synthetic and medicinal organic chemistry in the area of heterocyclic compounds, including, triazoles, fused pyrimidines, thiazoles, benzothiazoles and other heterocyclic systems with, modern techniques including various chromatographic separation methods, extensive use and interpretation of instrumental data, including mass spectrometry, IR, UV, ^1H , ^{13}C NMR spectroscopy.

✚ **Co-Investigator in research project (2008-2010) in King Abdulaziz University, KSA:**

(Design and Synthesis of Some Phthalimide Derivatives for Hypoglycemic Activity).

✚ **Training courses attended (King Abdulaziz University, KSA):**

- Study Guide
- Instructor as a Coach and Counselor
- The Implementation and Assessment of Outcome-Based Curricula
- Written Assessment in Integrated Curriculum.

✚ **-Seven Professional programs through Faculty and Leadership Development Project:**

الاتجاهات الحديثة في التدريس
اتخاذ القرارات وحل المشكلات
نظام الساعات المعتمدة
تنظيم المؤتمرات العلمية
الإدارة الجامعية
مشروعات البحوث التنافسية المحلية و العالمية
نظم الامتحانات وتقييم الطلاب

✚ **Consultant advisory position**

■ **M. SC. Degree Supervision:**

1. Synthesis of Certain 5-Substituted-6-aryl Thiouracil Derivatives as Potential Antiviral Agents . Magda Abdel-Aziz. (10/1996-11/2001).

2. **Synthesis and Pharmacological Study of Certain Substituted Triazolo Fused Heterocyclic System). Mariam Atef Ghaly (11/1999-4/2005).**
3. **Synthesis and Elucidation of Structure of Certain Fused System Containing Sulfur. Nadia Sabry El-Sayed Mohamed (2/2003-10/2006).**
4. **Synthesis and Biological Study of New Oxim Ether as β -Adrenergic Receptor Inhibitors. Hazim Ahmed Gabor.(10/2003-7/2008).**
5. **Molecular Modeling and Synthesis of certain Heterocyclic Compounds Containing Thiazole ring as Potential Anticancer Agents. Ahmed Reda Ali (10/2011-10/2013).**
6. **Analysis and Stability Study of Certain Antibiotics in Pharmaceutical Preparations. Reem Nashat (5/2012-till now).**
7. **Design and Synthesis of Nitrogen Containing Fused Heterocyclic Systems as Potential Antitumor Agents. Mostafa Tarek Gabr. (5/2012-4/2014).**
8. **Synthesis of Some Heterocyclic Systems Containing Thiazole Nucleus as Potential Antimicrobial and Antitumor Agents. Somaya Aly Mohamed (5/2012-till now)**
9. **Design and Synthesis of Certain New Thiazole Fused Heterocyclic Systems of Potential Antitumor Activity. Alaa Abdoallah Abdalhamed. (7/2013-till now)**
10. **Synthesis and Structure Elucidation of Certain Nitrogenous Heterocyclic Compounds of Expected Anti-inflammatory Effect. Sarra Adel Ibrahim. (8/2013-till now)**

■ **Ph. D. Degree Supervision**

1. **Development of certain new sulphur compounds in fused ring systems. Naglaa Abdel-Aziz (4/2002-10/2005).**

Conferences

1. **(Synthesis of Certain New Quinazolines and Quinoxalines of Potential Anti-inflammatory Activity), M.M.El-Kerdawy, I.A.Shehata, A.M.Barghash, M.B. El-**

Ashmawy and **E.R. El-Bendary**, XXIV Conference of Pharmaceutical Sciences, Cairo. Egypt, 1994.

2. (Synthesis of Certain Substituted Quinoxaline Derivatives and Evaluation of Their Biological Activity), **E.R.El-Bendary**, F.E.Goda, A.R.Maarouf and F.A.Badria. The 6th International Conference of Chemistry and Its Role in Development, Faculty of Science, Mansoura University, Mansoura, Egypt, 2001.

3. (Synthesis of Certain 6-Substituted Uracils and Related Derivatives as Potential Antiviral Agents). A A. El-Emam, M. A Massoud, **E. R. El-Bendary** and M. A. Ahmed. Al-Azhar Second International Conference for Pharmaceutical and Biological Science, Cairo, 2001.

4. (Synthesis and antimicrobial activity of certain novel substituted 1,2,4-triazolo[1,5-a]pyrimidines). Mariam A. Ghaly, **Eman R. El-Bendary**, Ihsan A. Shehata, Said A. Bayomi. National Conference in Chemistry that was held in Makkah, Saudi Arabia, 15-16 April, 2007

5. (Synthesis and *in vitro* anticancer evaluation of new thiazolo[3,2-a]pyrimidin-5-one derivatives). **Eman R. El-Bendary**, M. A. Ghaly, A. R. Ali, I. A. Shehata
The International Conference of Chemistry and Its Role in Development, Faculty of Science, Mansoura University, Mansoura, Egypt, 2012.

6. (New series of benzothiazole and pyrimido[2,1-*b*]benzothiazole derivatives: Synthesis, molecular modeling studies and antitumor activity). Moustafa T. Gabr, Nadia S. El-Gohary, **Eman R. El-Bendary**, Mohamed M. El-Kerdawy. The First International Conference on New Horizons in Basic and Applied Science. Al-Azhar University (Assiut Branch), Egypt, 21-23 September 2013. (**Best poster award**)

7. (Synthesis and *in vitro* antitumor activity of new series of benzothiazole and pyrimido[2,1-*b*]benzothiazole derivatives). Moustafa T. Gabr, Nadia S. El-Gohary, **Eman R. El-Bendary**, Mohamed M. El-Kerdawy. 7th Postgraduate symposium on Biological Chemistry and Medicinal Chemistry, Chemistry department, **Cambridge, UK**. 13th December 2013. (**BCMS postgraduate symposium prize winner**)

8. (EGFR tyrosine kinase targeted compounds: Synthesis, *in vitro* antitumor activity and molecular modeling studies of new series of benzothiazole and pyrimido[2,1-*b*]benzothiazole derivatives). Moustafa T. Gabr, Nadia S. El-Gohary, **Eman R. El-**

Bendary, Mohamed M. El-Kerdawy, JCF spring symposium, **Jena, Germany**, 26-29 March 2014

9. (EGFR tyrosine kinase targeted compounds: Synthesis, *in vitro* antitumor activity and molecular modeling studies of new series of benzothiazole and pyrimido[2,1-*b*]benzothiazole derivatives). Moustafa T. Gabr, Nadia S. El-Gohary, **Eman R. El-Bendary**, Mohamed M. El-Kerdawy, (**Invitation for an oral presentation**). 3rd Royal Society of Chemistry Younger Member Symposium, University of **Birmingham, UK**, 24 June 2014.

10. (EGFR tyrosine kinase targeted compounds: Synthesis, *in vitro* antitumor activity and molecular modeling studies of new series of benzothiazole derivatives). Moustafa T. Gabr, Nadia S. El-Gohary, **Eman R. El-Bendary**, Mohammed M. El-Kerdawy, Nanting Ni. The International Conference of Chemistry and Its Role in Development, Faculty of Science, Mansoura University, **Mansoura, Egypt**, Feb. 2015.

✚ List of Publications

1. Synthesis and characterization of 1,2,4-triazolo[4,3-*a*]quinoxalines and 1,2,4-triazolo-*s*-triazines as potential antimicrobial agents, M. M. El-Kerdawy, A. Tantawy, L. M. Gad and **E. Rady**, *Chin. Pharm. J.*, 1991, 43, 355-364.
2. Synthesis of some new quinazolines and quinoxalines of potential anti-inflammatory activity, **E. R. El-Bendary**, M. B. El-Ashmawy, A. M. Barghash, I.A. Shehata, and M. M.El-Kerdawy, *Boll. Chim. Farm.*, 1996, 135, 617-620.
3. Fused pyrimidines, synthesis and anti-inflammatory testing of certain novel imidazo[1,2-*c*] quinazoline, pyrazolo[3,4-*d*]triazolo[3,4-*b*]pyrimidine and pyrimido[2,1-*a*]phthalazine derivatives, M. M. El-Kerdawy, M. B. El-Ashmawy, I. A. Shehata, A. M.Barghash, **E. R. El-Bendary** and H. A. El-Kashef, *Saudi Pharm. J.*, 1997, 5, 46-51.
4. Synthesis and cardiotoxic activity of certain imidazo[2,1-*b*]-1,3,4-thiadiazole derivatives, M. A. El-Sherbeny, **E. R. El-Bendary**, H. I. El-Subbagh and H. A. El-Kashef, *Boll. Chim. Farm.*, 1997, 136, 253-256.

5. Synthesis and biological evaluation of certain new thiazolopyrimidines, **E.R. El-Bendary**, M. A. El-Sherbeny, and F. A. Badria, *Boll.Chim. Farm.*, 1998, 137, 115-119.
6. Synthesis, DNA-binding and antiviral activity of certain pyrazolo[3,4-*d*]pyrimidine derivatives, **E. R. El-Bendary** and F. A. Badria, *Arch. Pharm. Pharm. Med. Chem.*, 2000, 333, 99-103.
7. Substituted thiazoles IV: synthesis and antitumor activity of new substituted imidazo[2,1-*b*] thiazoles analogs, H. I. El-Subbagh, I. E.Al-Khawad, **E. R. El-Bendary**, A.M. Al-Obaid, *Saudi Pharm. J.*, 2001, 9, 14-20.
8. Synthesis and antimicrobial evaluation of certain new pyrazole and isoxazole derivatives, F. E. Goda, A. R. Maarouf and **E. R. El-Bendary**, *Saudi Pharm. J.*, 2003, 11, 111-117.
9. Synthesis and *in vitro* antibacterial evaluation of novel imidazo[2',11 :5,1]-1,2,4-triazolo [4,3-*c*]quinazoline derivatives of 5-thioxo-1,2,4-triazole, 4-oxothiazolidine, and their open-chain counterparts, M. N. Nasr, M. M. Gineinah, **E. R. El-Bendary**, *Arch. Pharm. Pharm. Med. Chem.*, 2003, 336, 560-566.
10. Synthesis and antimicrobial evaluation of 3-hydrazinoquinoxaline derivatives and their cyclic analogues, **E. R. El-Bendary**, F. E. Goda, A. R. Maarouf and F. A. Badria, *Sci. Pharm.*, 2004, 72, 175-185.
11. Synthesis of certain 6-(arylthio)uracils and related derivatives as potential antiviral agents, A. A. El-Emam, M. A. M. Massoud, **E. R. El-Bendary** and M. A. El-Sayed, *Bull. Korean Chern. Soc.*, 2004, 25, 991-996.
12. Synthesis and evaluation of some novel quinazolinone derivatives as diuretic agents, A. R. Maarouf, **E. R. El-Bendary** and F. E. Goda. *Arch. Pharm. Pharm. Med. Chem.* 2004, 337, 527 – 532.
13. Synthesis and pharmacological evaluation of novel fused thiophene derivatives as

- 5HT_{2A} receptor antagonists: molecular modeling study. Mohamed M. El-Kerdawy, **Eman R. El-Bendary**, Alaa A.M. Abdel-Aziz, Dalia R. El-Wasseef, Naglaa I. Abd El-Aziz. *Eur. J. Med. Chem.* 2010, 45, 1805-1820.
14. Synthesis and antitumor activity of new sulfonamide derivatives of thiadiazolo[3,2-*a*]pyrimidines. Nadia S. El-Sayed, **Eman R. El-Bendary**, Saadia M. El-Ashry, Mohammed M. El-Kerdawy. *Eur. J. of Med. Chem.*, 2011, 46, 3714-3720.
15. Synthesis, antimicrobial activity, DNA-binding affinity and molecular docking of certain 1,2,4-triazolo[1,5-*a*]pyrimidines as nalidixic acid isosteres. Mariam A. Ghaly, **Eman R. El-Bendary**, Ihsan A. Shehata, Said M. Bayomi, El-Sayed E. Habib. *Journal of American Science*, 2012, 8, 617-628.
16. Synthesis, single-crystal, *in vitro* antitumor evaluation and molecular docking of 3-substitued 5,5-diphenylimidazolidine-2,4-dione derivatives. Amer M. Alanazi, Adel S. El-Azab, Ibrahim A. Al-Swaidan, Azza R. Maarouf, **Eman R. El-Bendary** Mohamed A. Abu El-Enin, Alaa A.-M. Abdel-Aziz. *Med. Chem. Res.*, 2013, 22, 6129-6142.
17. Novel acetamidothiazole derivatives: synthesis and *in vitro* anticancer evaluation. Ahmed R. Ali, **Eman R. El-Bendary**, Mariam A. Ghaly, Ihsan A. Shehata. *Eur. J. of Med. Chem.*, 2013, 69, 908-919.
18. Synthesis, *in vitro* anticancer evaluation and *in silico* studies of novel imidazo[2,1-*b*]thiazole derivatives bearing pyrazole moieties. Ahmed R. Ali, **Eman R. El-Bendary**, Mariam A. Ghaly, Ihsan A. Shehata. *Eur. J. of Med. Chem.* 2014, 75, 492-500.
19. Synthesis, docking study and β -adrenoceptor activity of new oxime ether derivatives. Hazem A. Ghabbour, **Eman R. El-Bendary**, Mahmoud B. El-Ashmawy, Mohamed M. El-Kerdawy. *Molecules*, 2014, 19, 3417-3435.
20. Structure-based drug design and biological evaluation of 2-acetamidobenzothiazole

derivative as EGFR kinase inhibitor. Moustafa T. Gabr, Nadia S. El-Gohary, **Eman R. El-Bendary**, Mohamed M. El-Kerdawy. *Journal Enzyme Inhibition Medicinal Chemistry*, Published Early Online, March 5, 2014: 1–6.
(doi:10.3109/14756366.2014.887707).

21. Synthesis and *in vitro* antitumor activity of new series of benzothiazole and pyrimido[2,1-*b*] benzothiazole derivatives. Moustafa T. Gabr, Nadia S. El-Gohary, **Eman R. El-Bendary**, Mohamed M. El-Kerdawy. 7th Postgraduate symposium on Biological Chemistry and Medicinal Chemistry, Cambridge, U.K. 13th December 2013. (**BCMS postgraduate symposium prize winner**). *European Journal of Medicinal Chemistry*, 2014, 85, 576-592.
22. New series of benzothiazole and pyrimido[2,1-*b*]benzothiazole derivatives: synthesis, antitumor activity, EGFR tyrosine kinase inhibitory activity and molecular modeling studies. Moustafa T. Gabr, Nadia S. El-Gohary, **Eman R. El-Bendary**, Mohamed M. El-Kerdawy. *Med Chem Res.*, 2014, DOI 10.1007/s00044-014-1114-x.
23. EGFR tyrosine kinase targeted compounds: *in vitro* antitumor activity and molecular modeling studies of new benzothiazole and pyrimido[2,1-*b*]benzothiazole derivatives. Moustafa T. Gabr, Nadia S. El-Gohary, **Eman R. El-Bendary**, Mohamed M. El-Kerdawy. *Excli Journal*, 2014,13, 573-585
24. Synthesis, antimicrobial, antiquorum-sensing and cytotoxic activities of new series of benzothiazole derivatives. Moustafa T. Gabr, Nadia S. El-Gohary, **Eman R. El-Bendary**, Mohamed M. El-Kerdawy, Nanting Ni, Mona I. Shaaban, *Chin. Chem. Lett.* 2015, DOI: 10.1016/j.ccllet.2015.09.004.