

Curriculum Vitae

Heba Abdel-Moniem Abdel-Rahman Gad

Associate professor

Department of Pharmaceutics and Industrial Pharmacy

Faculty of Pharmacy, Ain Shams University

Organization of African Unity Street, Abbasia, 11566 Cairo, Egypt

Office 202-2405-1120, Fax 202-2405-1107

Academic profile: [Google scholar](#)

[Researchgate profile](#)

[Scopus profile](#)



Contact Information:

E-mail : h.gad@pharma.asu.edu.eg

Telephone: +2-01000-226-421

Skype: Heba Gad

Education:

- **Doctor of Philosophy of Pharmaceutical Sciences (Drug Technology),**
Faculty of Pharmacy, Ain Shams University, 1/2010- 12/2013
Thesis Title: “**Optimization of localized colloidal systems for the treatment of periodontal pockets**”
- **Master of Pharmaceutical Sciences (Drug Technology),**
Faculty of Pharmacy, Ain Shams University, 3/2003- 11/2007
Thesis Title: “**Pharmaceutical studies on certain drug delivery systems for the treatment of periodontal diseases**”
- **B.Sc. Pharmaceutical Sciences (May 2002) (excellent degree with honors)**
Faculty of Pharmacy, Ain Shams University

Professional Experience:

- **May 2019-present:** *Associate professor,*
Department of Pharmaceutics and Industrial Pharmacy, Ain Shams University, Cairo, Egypt
- **February 2014-May 2019:** *Assistant professor,*
Department of Pharmaceutics and Industrial Pharmacy, Ain Shams University, Cairo, Egypt
- **March 2008 - February 2014:** *Assistant Lecturer,*
Department of Pharmaceutics and Industrial Pharmacy, Ain Shams University, Cairo, Egypt
- **January 2003 - March 2008:** *Lab. instructor,*

Academic activities:

A. Teaching activities:

- 1- Designing and delivering of professional Industrial Pharmacy, Pharmaceutics 1, Drug delivery systems, Quality assurance and GMP, Pharmacy Practice, Pharmaceutical Engineering and Dosage form design
- 2- Designing and delivering the course of Quality by Design for postgraduate
- 3- Academic students supervision and mentoring for both under and postgraduate students
- 4- Students evaluation in all the given courses in Egypt was always “Exceptional”

• Scientific publication

i- Articles and reviews:

1. Heba A. Gad, Mohamed A. El-Nabarawi and Seham S. Abd el-Hady. **Formulation and evaluation of secnidazole or doxycycline dento-oral gels**. Drug Development and Industrial Pharmacy. 2008; 34:1356-67.
2. Heba A. Gad, Mohamed A. El-Nabarawi and Seham S. Abd el-Hady **Formulation and evaluation of PLA and PLGA in situ implants containing secnidazole and/or doxycycline for treatment of periodontitis**. AAPS PharmSciTechnology. 2008; 9:878-84.
3. Heba A. Gad, Amany O. Kamel, Omaira A. Sammour, Hadir F. El Dessouky. **Vesicular powder as carrier for doxycycline hydrochloride and metronidazole combination therapy**. Pharmaceutical Development and Technology. 2013; 19: 755-768
4. Nevine H. Kheir EL Din, Ola M. Ezzat, Heba A. Gad. **Clinical and Biochemical Study evaluating the effect of Atorvastatin gel as an adjunct to Scaling and Root Planing in the treatment of chronic periodontitis**. Egyptian dental journal. 2015; 61:2227-2235
5. Heba A. Gad. **Simvastatin In-Situ Forming Implants: Preparation and Characterization**. International Journal of pharmacy and Pharmaceutical Research. 2016; 7: 44-57
6. Rania M. Hathout, Heba A. Gad, Abdelkader A. Metwally. **Gelatinized-core liposomes: Toward a more robust carrier for hydrophilic molecules**. Journal of Biomedical Materials Research Part A. 2017; 107: 3086-3092
7. Reham S. Elezaby, Heba A. Gad, Abdelkader A. Metwally, Ahmed S. Geneidi, Gehanne A. Awad. **Self-assembled amphiphilic core-shell nanocarriers in line with the modern strategies for brain delivery**. Journal of Controlled Release. 2017; 261: 43-61.

8. Heba A. Gad, Amany O. Kamel, Ola M. Ezzat, Omaima A. Sammour, Hadir F. El Dessouky. **Doxycycline hydrochloride-metronidazole solid lipid microparticles gels for treatment of periodontitis: Development, in-vitro and in-vivo clinical evaluation.** Expert Opinion on Drug Delivery. 2017; 14: 1241-1251
9. Maie S. Tawfik, Khaled A. Abdel-Ghaffar, Ahmed Y. Gamal, Fatma H. El-Demerdash, Heba A. Gad. **Lycopene solid lipid microparticles with enhanced effect on gingival crevicular fluid protein carbonyl as a biomarker of oxidative stress in patients with chronic periodontitis.** Journal of Liposome Research. 2019: 1-33.
10. Heba A. Gad, Fawzia A. Abd El-Rahman, Germine M. Hamdy. **Chamomile oil loaded solid lipid nanoparticles: A naturally formulated remedy to enhance the wound healing.** Journal of Drug Delivery Science and Technology. 2019.
11. Rania M. Hathout, Heba A. Gad, Salma M. Abdel-Hafez, Nayera Nasser, Noha Khalil, Toka Ateyya, Alaa Amr, Nesreen Yasser, Sandy Nasr, Abdelkader A. Metwally. **Gelatinized core liposomes: A new Trojan horse for the development of a novel timolol maleate glaucoma medication.** International Journal of Pharmaceutics. 2019; 556: 192-199
12. Enas Elmowafy, Heba Gad, Francesca Biondo, Luca Casettari, Mahmoud E.Soliman. **Exploring optimized methoxy poly(ethylene glycol)-block-poly(ϵ -caprolactone) crystalline cored micelles in anti-glaucoma pharmacotherapy.** International Journal of Pharmaceutics. 2019; 556: 573-584
13. Khaled S. Shamarekh, Heba A. Gad, Mahmoud E. Soliman, Omaima A. Sammour. **Towards the production of monodisperse gelatin nanoparticles by modified one step desolvation technique.** Journal of Pharmaceutical Investigation. 2019; 27 June
14. Mai Mansour, Tamer A.A. El Ezz, Fathy N. Fattoh, Dalia M. AbouelFadl, Heba A. Gad. **Delineating the usage of dexamethasone-loaded cubosomes as a therapeutic armamentarium for hearing loss versus its protective effect: In-vitro and in-vivo animal study.** Journal of Drug Delivery Science and Technology. 2020; 61, 102244
15. Khaled S. Shamarekh, Heba A. Gad, Mahmoud E. Soliman, Omaima A. Sammour.. **Development and evaluation of protamine-coated PLGA nanoparticles for nose-to-brain delivery of tacrine: In-vitro and in-vivo assessment.** Journal of Drug Delivery Science and Technology. 2020; 57, 101724
16. Heba A. Gad, Rania M. Hathout. **Can the Docking Experiments Select the Optimum Natural Bio-macromolecule for Doxorubicin Delivery?** Journal of Cluster Science. 2020; 1-5

17. Layla Hashem, Heba Gad, Omaira Sammour. **An Insight on atopic dermatitis therapy: from conventional to Lipid based nanocarriers.** Archives of Pharmaceutical Sciences Ain Shams University 2020; 4 (2), 271-289
18. Mahmoud A Elfaky, Alaa Sirwi, Heba H Tolba, Rasheed A Shaik, Nouf M Selmi, Ahlam H Alattas, Raghad S Albreki, Nuha M Alshreef, Heba A Gad. **Development, optimization, and antifungal assessment of ocular gel loaded with ketoconazole cubic liquid crystalline nanoparticles.** Journal of Pharmaceutical Sciences. 2021; 110 (5), 2210-2220 1
19. Mai Mansour, Enas Elmowafy, Heba A Gad. **Intranasal versus intraperitoneal Myrj 59-stabilized cubosomes: A potential armamentarium of effective anti-diabetic therapy.** Colloids and Surfaces B: Biointerfaces. 2021; 199, 111534
20. Heba A Gad, Autumn Roberts, Samirah H Hamzi, Haidy A Gad, Ilham Touiss, Ahmed E Altyar, Osama A Kensara, Mohamed L Ashour. **Jjoba Oil: An Updated Comprehensive Review on Chemistry, Pharmaceutical Uses, and Toxicity.** Polymers, 2021; 13 (11), 1711

ii- Posters:

- 1- Nevine H. Kheir El Din, Ola M. Ezzat and Heba A. Gad. **Clinical and Biochemical Study evaluating the effect of Atorvastatin gel as an adjunct to Scaling and Root Planing in the treatment of chronic periodontitis.** The 1st International Dental Congress, Faculty of Dentistry, Ain shams University 9-11 October 2014. Cairo, Egypt.
- 2- Rania M. Hathout, Heba A. Gad, Abdelkader A. Metwally. **Gelatinized core liposomes: Towards an advanced carrier for hydrophilic drugs formulation.** The 42nd annual meeting and exposition of the controlled release society. 26-29 July 2015, Edinburg, Scotland.
- 3- Reham S. Elezaby, Heba A. Gad, Abdelkader A. Metwally, Ahmed S. Geneidi, Gehanne A. Awad. **A novel approach for treatment of Parkinson's disease.** The 7th Annual Ain Shams University Conference, Internalization and Mobilization 2-5 April 2018
- 4- Khaled S. Shamarekh, Heba A. Gad, Mahmoud Soliman, Omaira A. Sammour. **Brain targeting using gelatin nanoparticles.** The 7th Annual Ain Shams University Conference, Internalization and Mobilization 2-5 April 2018

iii- Conference participation

- The 17th Scientific Congress of the Association of Pharmacy Colleges in the Arab World, Faculty of Pharmacy, Ain Shams University, 14-16 October 2014, (Attending and organizing the conference).
- FUE International Conference of Pharmaceutical Sciences, Intercontinental City Stars, Cairo, Egypt, 9-12 February 2015. (Attending the conference).

- **Journal Reviewer:**

I have been reviewing for many prestigious journals like: Drug Development and Industrial Pharmacy, Nanomedicine, International Journal of Pharmaceutics and Express Polymer Letters

- **Research Projects**

2018: Title: Impact of intratympanic corticosteroids sustained nanocarriers on the prevention and treatment of sensorineural hearing loss (SNHS) (Principle investigator)

C. Committees & Communities activities:

- Member of academic affair, community services, library, international affairs committees in Egypt Faculty of Pharmacy, Ain Shams University 2014-2021
- Member of Quality and steering unit for Accreditation
- Member of the organization committee for the 17th meeting of The Arab schools of Pharmacy held in Egypt
- Member of drug development committee, General directorate of registration, Central Administration for Pharmaceutical Affairs, Ministry of health.

D. Accreditation activities:

- Member of the steering committee for ACPE accreditation responsible for Academic standards and educational programs
- Member of quality committee for NAQAAE accreditation responsible for preparation of course specs, portfolios, ILOs in ASU, Egypt