

Name: Ahmed Rifaat Mohamed Mahmoud Gardouh

Position:

Head of Department of Pharmaceutical sciences.

Deputy Dean of Faculty of Pharmacy, Jadara
University, Jordan.

Professor

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Personal:	Date of birth: 2 / 7 / 1979 Marital Status: married and having a girl
Academic Qualifications:	
November 2024	Professor title in Pharmaceutics & Industrial Pharmacy from Jadara University.
10 th December 2024	Professor title in Pharmaceutics & Industrial Pharmacy from Suez Canal University.
31 st December 2019	Associate Professor title in Pharmaceutics & Industrial Pharmacy from Suez Canal University.
30 th June 2012	Assistant Professor (lecturer) degree in Pharmaceutics & Industrial Pharmacy from Suez Canal University.
15 th June 2012	Ph.D. in Pharmaceutical Sciences degree in Pharmaceutics & Industrial Pharmacy from Suez Canal University.
August 2007	Master's Degree in Pharmaceutical Sciences degree in Pharmaceutics & Industrial Pharmacy from Suez Canal University.
May 2001	B.Sc. Pharmaceutical Sciences (May 2001), Faculty of Pharmacy, Suez Canal University (Excellent with the degree of honor, 87.83 %).
Language proficiency	Arabic: mother tongue English (spoken & written): excellent French (spoken & written): very good, TCF-TP (B2) certificat de langue Français Certificat de B1 de centre des langues vivantes, université de Mons, Belgique.

11 th February 2020- now		Professor at Department of Pharmacy, Faculty of Pharmacy, Jadara University, Jordan.
1 st October 2025 -now		Head of Department of Pharmacy and Deputy dean of faculty of pharmacy, jadara university
Work History	1 st October 2023- 30 th September 2024	Head of Department of Pharmacy and Deputy dean of faculty of pharmacy, jadara university.
	1 st October 2022- 30 th September 2023	Deputy dean of faculty of pharmacy, jadara university.
	1 st October 2021-30 th September 2022	Dean of faculty of pharmacy, jadara university.
	1 st September 2019- 10 th February 2020	Associate Professor at the Department of Pharmaceutics & Pharmaceutical technology, Faculty of Pharmacy, University of Heliopolis for sustainable development, Egypt. Head of Professional training unit at Faculty.
	30 th June 2012- 31 st august 2019	Assistant Professor (lecturer) at the Department of pharmaceutics & Industrial Pharmacy, Faculty of Pharmacy, Suez Canal University.
	August 2007 -June 2012	lecturer at the Department of pharmaceutics & Industrial Pharmacy, Faculty of Pharmacy, Suez Canal University.
		Teaching assistant at the Department of pharmaceutics & Industrial Pharmacy, Faculty of Pharmacy, Suez Canal University.
Administrative positions		
1 st October 2025 -now pharmacy, jadara university		Head of Department of Pharmacy and Deputy dean of faculty of
October 2024- September 2025		Deputy dean of faculty of pharmacy, jadara university.
October 2023 -September 2024		Vice-Dean of Faculty of Pharmacy, and head of department of basic and pharmaceutical sciences, Jadara University, Irbid, H.K
October 2022- September 2023		Vice- Dean of Faculty of Pharmacy , Jadara University ,Irbid, H.K Jordan
October 2021- 2022		Acting Dean of Faculty of Pharmacy , Jadara University ,Irbid, H.K Jordan.
January 2021- September 2021		Head of department of pharmaceutical sciences , Faculty of Pharmacy ,

	Jadara University , Irbid, H.k. Jordan.
<i>September 2019-2020</i>	Manager of training center (Staff members and students) Faculty of Pharmacy, Heliopolis University for sustainable development.
<i>june2014 - Sep 2015</i>	Head of training center of information technology, Suez Canal University, under supervision of information and communication technology project (ICTP) in higher education.
<i>July 2012 – august, 2014</i>	Head of E-learning center, Suez Canal University, under supervision of information and communication technology project (ICTP) in higher education.

Teaching Experience:

Bachelor's degree students in Pharmacy program	• Participation in teaching Pharmacy orientation and physical Pharmacy course for first year students (New Regular Program) during academic year 2012-2013. • Participation in teaching Pharmaceutics II course for second year students during academic years 2012-2017. • Participation in teaching Pharmaceutics III course for third year students during the academic years 2012-2017. • Participation in teaching Industrial Pharmacy and Pharmaceutics IV course for fourth year students in the academic years 2012-2013 & 2015-2017. • Participation in teaching Biopharmaceutics and Pharmacokinetics course for fifth year students during the academic years 2012-2017.
Bachelor's degree Clinical Pharmacy program	• Participation in teaching drug information course for fifth year students during the second term and summer courses in academic years 2013-2018. • Participation in teaching clinical Pharmacokinetics course for fifth year students in the academic years 2014-2019. • Participation in teaching physical pharmacy for first year students during the academic years 2012-2014, 2015-2016 & summer semesters of 2014-2018. • Participation in teaching pharmaceutical technology and Basic pharmacokinetics courses for third year students during the academic years 2012-2017. • Participation in teaching Clinical Pharmacy course for fourth year students during the academic years 2012-2013 & 2015-2016. • Participation in teaching Biophysics course (5 h) for first year students during the academic year 2014-2015.

	• Teaching all Pharmaceutical technology and Dosage form courses at Faculty of Pharmacy, Jadara University , Jordan. • Teaching Pharmaceutics III course (30 h) for Pharmacy students, Faculty of Pharmacy, Heliopolis University for sustainable development (fall, 2014- fall 2019) (part-time and full -time). • Teaching Physical Pharmacy course (30 h) for Pharmacy students, Faculty of Pharmacy, Heliopolis University for sustainable development (spring, 2018) (part-time). • Teaching Pharmacy legislation and research methodology courses (30 h) for Pharmacy students, Faculty of Pharmacy, Heliopolis University for sustainable development (spring 2014-2018) (part-time).
Other Universities	• Teaching New drug delivery systems and Biopharmaceutics and Pharmacokinetics course (30 h) for Pharmacy students, Faculty of Pharmacy, Heliopolis University for sustainable development (summer, 2018, 2019) (part-time). • Teaching Physical Pharmacy course (30 h) for Pharmacy students, Faculty of Pharmacy, Sinai University (spring and summer, 2018) (part-time). • Teaching Pharmaceutics IV course (30 h) for Pharmacy students, Faculty of Pharmacy, Sinai University (spring and summer, 2018) (part-time). • Teaching Hospital Pharmacy practice course (30 h) for Pharmacy students, Faculty of Pharmacy, Sinai University (summer, 2014) (part-time). • Teaching Pharmaceutical technology and clinical pharmacy courses (30 h) for Pharmacy students, Faculty of Pharmacy, Nahda University (summer, 2017 and 2018) (part-time).
Postgraduate and Pharm D Program	• Participation in teaching <i>Principles of Physical pharmacy and Pharmacokinetics for master students at jadara university</i> • Participation in teaching <i>Principles of Pharmaceutical Care and Biometrics</i> (45 h) during the academic years 2015-2016 [PI] and 2016-2017 (15 h). • Participation in teaching <i>Drug Information</i> (15 h) course during the academic year 2015-2016. • Teaching Hospital Pharmacy course during the academic years 2015-2020 . • Teaching clinical Pharmacokinetics course during the academic years 2015-2020 .
PhD students	• Participation in teaching advanced drug delivery systems course (10 h) during the

	academic year 2016-2017.
	• Participation in teaching GMP course (10 h) during the academic years 2016-2019. • Participation in teaching advanced pharmacokinetics course (12 h) during the academic year 2016-2017.
Master's Students	• Participation in teaching physical pharmacy course (50 h) for Master students during the academic years 2023-now at Jadara University. • Participation in teaching advanced Pharmacokinetics course (50 h) for Master students during the academic years 2023-now at Jadara University. • Participation in teaching physical pharmacy course (50 h) for Master students during the academic years 2015-2019. • Participation in teaching cosmetics (50 h) for Master students during the academic years 2017-2018. • Participation in teaching drug delivery systems course (25 h) for Master students during the academic years 2014-2016. • Teaching dosage form stability course (50 h) for Master students during the academic year 2017-2018.

Participation in academic accreditation

<i>2024-now</i>	Participation in steering committee for Jordan accreditation, Faculty of Pharmacy, Jadara University.
<i>2023- now</i>	Participation in steering committee for ACPE accreditation, Faculty of Pharmacy, Jadara University.
<i>2022-2023</i>	Participation in Team responsible for NQF (national qualifications frame) in Jordan with successful inclusion of Faculty of Pharmacy, Jadara University.
<i>21st Aug 2017</i>	Participation in a meeting for application of mission of the faculty for developing the pharmacy profession and improving the quality of the graduates, at Faculty of Pharmacy, Suez Canal University
<i>2016-2017</i>	Participation in renewal of the curriculum of postgraduate studies at Faculty of Pharmacy, Suez Canal University
<i>24th Feb- 30th March 2014</i>	Head of " the committee for revising the faculty research plan ", Faculty of Pharmacy, Suez Canal University.

September 2015- september 2019	The head of “ the training unit ” at the quality assurance unit, Faculty of Pharmacy, Suez Canal University.
Dec 2013 - Dec 2014	The head of the “ committee for leadership and governance ” at the quality assurance unit, Faculty of Pharmacy, Suez Canal University.
Sept 2012-2014	An active member of the implementation team of Continuous Improvement and Qualifying for Accreditation Project (CIQAP), Faculty of Pharmacy, Suez Canal University, Ismailia- Egypt.
Aug 2007- 2014	An active member of the implementation team of Quality Assurance and Accreditation Project (QAAP), Faculty of Pharmacy, Suez Canal University, Ismailia- Egypt.

Publications:

Google Scholar h index = 17 (citations = 1294)

Scopus h index = 12 (citations = 799)

Publications:

1. Mosalam E.M., Abdallah M.S., **Gardouh A.R.**, Hamza E., Bahaa M.M., Nazih M., Al-Dhelaan R.A., Kamal N. SIRT1 in brain aging: molecular mechanisms and therapeutic potential of pharmacological and natural modulators. (2026) Biogerontology, 27 (4), art. no. 137, DOI: 10.1007/s10522-026-10480-7
2. Bahaa M.M., Abdallah M.S., Mosalam E.M., **Gardouh A.R.**, Nazih M., Hamza E., Al-Dhelaan R.A., Kamal N. Ulcerative colitis, pathophysiological mechanisms and drug repurposing: a new therapeutic dawn-narrative review .(2026) Inflammopharmacology, 34 (4), pp. 2077 - 2113, DOI: 10.1007/s10787-025-02101-5
3. Mosalam E.M., Abdallah M.S., **Gardouh A.R.**, Hamza E., Bahaa M.M., Nazih M., Al-Dhelaan R.A., Kamal N. The cross-talk between GSK-3 β , RKIP, and PTEN as potential targets for therapeutic implications in cancer: a comprehensive insight. (2026) Journal of Pharmacy and Pharmaceutical Sciences , 29, art. no. 16610, DOI: 10.3389/jpps.2026.16610.
4. **Gardouh AR**, Abdallah MS, Alanazi KD, Aldossary KM. Physicians' Awareness and Knowledge of Barriers to Medication Adherence in Cardiovascular Patients and Strategies Employed in Clinical Practice in Saudi Arabia: A Cross-Sectional Study. *INQUIRY: The Journal of Health Care Organization, Provision, and Financing*. 2026;63. doi:[10.1177/00469580261427422](https://doi.org/10.1177/00469580261427422)
5. Nada A. Ezzat, Rasha S. Elbeltagy, Marwa Diab, **Ahmed R. Gardouh**, Ola H. El-Habit. Annona muricata L. leaves extract loaded on chitosan nanoparticles combined with methotrexate induces cytotoxicity in A549 cancer cell line. Egypt. J. Cancer Biomed. Res., 2026, 10(1). [10.21608/icbr.2026.378212.1396](https://doi.org/10.21608/icbr.2026.378212.1396).
6. Mahmoud Abdallah, Esraa Mosalam, **Ahmed Gardouh**, Mostafa Bahaa, Mahmoud Nazeih, Noha Kamal. Ulcerative colitis, pathophysiological mechanisms and drug repurposing: a new therapeutic dawn-narrative review. *Inflammopharmacol* (2026) <https://doi.org/10.1007/s10787-025-02101-5>
7. Haddad R, **Gardouh AR**. Development and Evaluation of an Orodispersible Tablet Formation for the Delivery of a Hydrophobic Drug. *Adv Pharmacol Pharm Sci*. 2024;2024:7914860. Published 2024 Oct 17. doi:10.1155/2024/7914860.

8. Hatem M. Tawfek, Mohamed A. Nasr-Eldin, Mohamed A. Akl, Mohamed Elsayed, **Ahmed R. Gardouh**. Development And Characterization Of Protransfersomes Loaded With Model Drug For Transdermal Delivery, *Az. J. Pharm Sci.* Vol. 70, September, 2024.
9. Mokhtar HI, Khodeer DM, Alzahrani S, Qushawy M, Alshaman R, Elsherbiny NM, Ahmed ES, Abu El Wafa EG, El-Kherbetawy MK, **Gardouh AR** and Zaitone SA (2024) Formulation and characterization of cholesterol-based nanoparticles of gabapentin protecting from retinal injury. *Front. Chem.* 12:1449380. doi: 10.3389/fchem.2024.1449380
10. Alsharif ST, **Gardouh AM**, Mandour MF, Alaqais ZM, Alharbi LK, Almarwani MJ, Mokhtar HI, Hisham FA, Abdellah MM, Mohamed GM, Shorog EM, Almaeen AH, Atteia HH, Zaitone SA. Antitumor activity and targeting p53-PUMA mRNA expression by 5-flurouracil PLGA-lipid polymeric nanoparticles in mouse mammary carcinomas: comparison to free 5-flurouracil. *Toxicol Mech Methods.* 2024 May;34(4):385-397. doi: 10.1080/15376516.2023.2294083.
11. Hatem M. Tawfek, Mohamed A. Akl, Mohamed El-sayed, **Ahmed R. Gardouh**. A Recent Overview Of Advanced Pharmaceutical Delivery Systems: Transfersome and Protransfersome As Promising Nanoencapsulation Techniques For Transdermal Drug Delivery. May 2024 *.Records of Pharmaceutical and Biomedical Sciences* 8(3):175-192 DOI: [10.21608/rpbs.2024.327903.1330](https://doi.org/10.21608/rpbs.2024.327903.1330)
12. Al-Shdefat, R.; Hailat, M.; Alshogran, O.Y.; Abu Dayyih, W.; **Gardouh, A.**; Al Meanazel, O. Ribociclib Hybrid Lipid–Polymer Nanoparticle Preparation and Characterization for Cancer Treatment. *Polymers* 2023, 15, 2844. <https://doi.org/10.3390/polym15132844>.
13. Khafagy ES, Motawee AO, Ghorab MM, **Gardouh AR**. Atorvastatin-loaded pro-nanolipospheres with ameliorated oral bioavailability and antidyslipidemic activity *Colloids Surf B Biointerfaces.* 2023 Jul;227:113361. doi: 10.1016/j.colsurfb.2023.113361.
14. Shoiab, A. A., Khwaldeh, A. S., Alsarhan, A. A., **Gardouh, A. R.**, & Al-fawaeir, S. A. The Counter-Effect of Glycyrrhiza glabra Against Gastrointestinal Tract Toxicity of Indomethacin on Rats. (2023). <http://www.doi.org/10.26538/tjnpr/v7i10.22>. *Tropical Journal of Natural Product Research (TJNPR)*, 7(10), 4267–4272.
15. Khwaldeh A, Shoiab A, Alsarhan A, **Gardouh A**, Alsheikh A, Ababneh S, Alqaraleh M, Bdeir R. Prevalence of Depression Among Jordanian University Students During COVID-19 Pandemic. *Biomed Pharmacol J* 2023;16(2).
16. Shoiab A. A, **Gardouh A**, khwaldeh A, Alsarhan A, Al-hamad N. The Comparison Between the Effect of Atorvastatin and Nanoparticle Atorvastatin on Rat Liver.. *Biomed Pharmacol J* 2023;16(1).
17. Ali ALSARHAN *, Aiman A. SHOIAB , **Ahmed GARDOUH** , Alia KHWALDEH Ashraf O. KHASHROUM Comparison between Ibuprofen Nanoparticles and Suspension Ibuprofen Regarding GIT Side Effects . *Lat. Am. J. Pharm.* **41** (11): 2227-30 (2022).
18. Ali Alsarhan, Aiman Shoiab, **Ahmed Gardouh**, Alia Khwaldeh, Moath Alqaraleh . Obesity risk throughout collective quarantine for the COVID-19 . *Rom. J. Diabetes Nutr. Metab. Dis.* 2022; volume 29, issue 3, pages 280-283.
19. Alshaman, R.; Alattar, A.; El-Sayed, R.M.; **Gardouh, A.R.**; Elshaer, R.E.; Elkazaz, A.Y.; Eladl, M.A.; El-Sherbiny, M.; Farag, N.E.; Hamdan, A.M.; et al. Formulation and Characterization of Doxycycline-Loaded Polymeric Nanoparticles for Testing Antitumor/Antiangiogenic Action in Experimental Colon Cancer in Mice. *Nanomaterials* 2022, 12, 857. <https://doi.org/10.3390/nano12050857>.
20. Alfatama, M., **Gardouh, A.R.**, Doolaane, A.A. Stability of Nanomaterials. *Drug Delivery Using Nanomaterials*, 2022, pp. 355–379.(book chapter)

21. **Ahmed R. Gardouh**, Ahmed M. Nasef, Yasser Mostafa, Shadeed Gad. Impact on HDL and LDL of Hyperlipidemic Rat Models: Designed Solid Self-Nanoemulsifying Drug Delivery Systems with Atorvastatin and Ezetimibe combination. Research Journal of Pharmacy and Technology. 2022; 15(6):2459-9. doi: 10.52711/0974-360X.2022.00411.
22. **Ahmed R. Gardouh**, Sameh Elhusseiny, Shadeed Gad. Mixed Avanafil and Dapoxetine Hydrochloride cyclodextrin nano-sponges: Preparation, in-vitro characterization, and bioavailability determination, Journal of Drug Delivery Science and Technology, 68 (2022,)103100. <https://doi.org/10.1016/j.jddst.2022.103100>.
23. **Ahmed R. Gardouh**, Ahmed S. G. Srag El-Din, Yasser Mostafa, Shadeed Gad. Starch Nanoparticles Preparation and Characterization by in situ combination of Sono-precipitation and Alkali hydrolysis under Ambient Temperature. Research Journal of Pharmacy and Technology. 2021; 14(7):3543-2. doi: 10.52711/0974-360X.2021.00614.
24. **Gardouh AR**, Srag El-Din AS, Salem MSH, Moustafa Y, Gad S. Starch Nanoparticles for Enhancement of Oral Bioavailability of a Newly Synthesized Thienopyrimidine Derivative with Anti-Proliferative Activity Against Pancreatic Cancer. Drug Des Devel Ther. 2021;15:3071-3093 <https://doi.org/10.2147/DDDT.S321962>.
25. Al-Thamarani S, **Gardouh A**. Enhanced oral bioavailability and gastroprotective effect of ibuprofen through mixed polymer-lipid nanoparticles. Ther Deliv. 2021 Apr 14. doi: 10.4155/tde-2020-0125. Epub ahead of print. PMID: 33849297.
26. Aiman A. Shoiab, **Ahmed R. Gardouh**. The Nephroprotective Effect of Zizphus Jujuba Extract Against 5-Flurouracil- Induced Nephropathy. Al-Kitab Journal for Pure Sciences 2020, Volume 4, Issue 2, Pages 59-70
27. **Ahmed R. Gardouh**, Ahmed M.Nasef , Yasser Mostafa , Shadeed Gad. Emulsifying Drug Delivery System: A Novel Approach for Oral Delivery of Poorly Water Soluble Drugs. Records of Pharmaceutical and Biomedical Sciences, 2021; 5(Pharmacology-Pharmaceutics): 52-58. doi: 10.21608/rpbs.2021.52929.1086
28. **Gardouh, A.**, Srag El-Din, A., Moustafa, Y., Gad, S. Formulation factors of starch-based nanosystems preparation and their pharmaceutical application. Records of Pharmaceutical and Biomedical Sciences, 2021; 5(Pharmacology-Pharmaceutics): 28-39. doi: 10.21608/rpbs.2020.51097.1080.
29. Salem, S., **gardouh, A.**, Gad, S. C:Parameter Optimization of Solid Lipid Nanoparticles Formulation. Records of Pharmaceutical and Biomedical Sciences, 2020; 4(2): 1-7. doi: 10.21608/rpbs.2020.23041.1050
30. **Ahmed R.Gardouh**, Tassneim M.Ewedah, Fathy I.Abd-Allah, Mamdouh M.Ghorab, Mervat M.Omran, Hossam S.El-Sawy. Enhanced efficacy, cellular uptake, and antiangiogenic activity of the optimized imatinib mesylate-loaded proniosomal-derived nanovesicles. Journal of Drug Delivery Science and Technology Volume 61, February 2021, 102267, <https://doi.org/10.1016/j.jddst.2020.102267>.
31. A. Attia, M.; Enan, E.T.; Hashish, A.A.; M. H. El-kannishy, S.; **Gardouh, A.R.**; K. Tawfik, M.; Faisal, S.; El-Mistekawy, A.; Salama, A.; Alomar, S.Y.; H. Eltrawy, A.; Yagub Aloyouni, S.; Zaitone, S.A. Chemopreventive Effect of 5-Flurouracil Polymeric Hybrid PLGA-Lecithin Nanoparticles against Colon Dysplasia Model in Mice and Impact on p53 Apoptosis. Biomolecules 2021, 11, 109. <https://doi.org/10.3390/biom11010109>
32. **Ahmed R. Gardouh**, Ahmed M. Nasef, Yasser Mostafa, Shadeed Gad, Design and evaluation of combined atorvastatin and ezetimibe optimized self- nano emulsifying drug delivery system,

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- Journal of Drug Delivery Science and Technology Volume 60, 2020, <https://doi.org/10.1016/j.jddst.2020.102093>.
33. **GARDOUH A**, GAMAL A, GAD S. Formulation and pharmacokinetic evaluation of rifampicin solid lipid nanoparticles. J.Res.Pharm. 2020; 24(4): 539-551. <http://dx.doi.org/10.35333/jrp.2020.202>.
 34. **Ahmed R. Gardouh** ,Mohammed A. Attia ,Eman T. Enan ,Alaaeldeen M. Elbahaie ,Rania A. Fouad ,Mohamed El-Shafey ,Amal M. Youssef ,Suliman Y. Alomar ,Zinab Abd-Elhady Ali ,Sawsan A. Zaitone andMona K.E. Qushawy. Synthesis and Antitumor Activity of Doxycycline Polymeric Nanoparticles: Effect on Tumor Apoptosis in Solid Ehrlich Carcinoma .Molecules **2020**, 25(14), 3230; <https://doi.org/10.3390/molecules25143230>.
 35. Mahmoud Mostafa, **Ahmed R. Gardouh**, Noha M. Abogresha, Shadeed Gad, Factorial design, formulation, in vitro and in vivo evaluation of rapid orally disintegrating tablets prepared by sublimation technique using captopril as a model drug, Journal of Drug Delivery Science and Technology, Volume 57 <https://doi.org/10.1016/j.jddst.2020.101635>.
 36. Ghourab, N., **gardouh, A.**, Gad, S., Moustafa, Y. Nanosponge as a drug delivery system. Records of Pharmaceutical and Biomedical Sciences, 2020; 4(1): 17-31. doi: 10.21608/rpbs.2019.17076.1041.
 37. **Ahmed Gardouh**, Sherif Shaker, Zainab Zakaria Ali and Mamdouh Ghorab, "Silymarin spray dried proliposomes: preparation, characterization and cytotoxic evaluation", Drug Delivery Letters (2020) 10: 1. <https://doi.org/10.2174/2210303109666190722114211>.
 38. **Gardouh A**, Abou-Taleb H and Solyman S: Preparation, characterization and evaluation of antifungal activity of clotrimazole nanostructured lipid carriers. Int J Pharm Sci & Res 2019; 10(10): 1000-08. doi: 10.13040/IJPSR.0975-8232.10(10).1000-08.
 39. **Gardouh A**, Khafagy E, Elkady M. Preparation of self –flocculated solid lipid nanoparticles. J Res Pharm. 2019; 23(4): 1-10.
 40. **GARDOUH, A.**, S. H. Faheim, and S. M. Solyman. "Design, Optimization And In Vitro Evaluation of Antifungal Activity Of Nanostructured Lipid Carriers Of Tolnaftate". International Journal of Pharmacy and Pharmaceutical Sciences, Vol. 11, no. 7, May 2019, pp. 109-15, doi:10.22159/ijpps.2019v11i7.33115.
 41. faheim, S., **gardouh, A.**, nouh, A., ghorab, M. Review article on nanoemulsions and nanostructured lipid carriers. Records of Pharmaceutical and Biomedical Sciences, 2018; 2(2): 23-31. doi: 10.21608/rpbs.2018.5223.1011.
 42. **Ahmed R. Gardouh**, Bassant M. Barakat, Mona K.E. Qushawy, Amany Y. El-kazzaz,Manal M. Sami, Sawsan A. Zaitone. Antitumor activity of a molecularly imprinted nanopreparation of 5-flurouracil against Ehrlich carcinoma solid tumors grown in mice: Comparison to free 5-flurouracil. Chemico-Biological Interactions Volume 295, November 2018, Pages 52-63. DOI: 10.1016/j.cbi.2018.04.019.
 43. **Ahmed R. Gardouh**, Samar H. Faheim, Ahmed T. Nouh, Mamdouh M. Ghorab (2018). Influence Of Formulation Factors On The Size Of Nanostructured Lipid Carriers And Nanoemulsions Prepared By High Shear Homogenization. International Journal of Pharmacy and Pharmaceutical Sciences 10(4), 61-75. DOI: <http://dx.doi.org/10.22159/ijpps.2018v10i4.23142>.
 44. Ahmed Mohammed Nasef, **Ahmed Rifaat Gardouh**, Mamdouh Moustafa Ghorab (2017). Formulation and in-vitro evaluation of pantoprazole loaded pH-sensitive polymeric nanoparticles. Future Journal of Pharmaceutical Sciences, 3, (2017) 103-117. <https://doi.org/10.1016/j.fjps.2017.04.004>.
 45. Sherif Shaker, **Ahmed Rifaat Gardouh** and Mamdouh Mostafa Ghorab (2017). Factors affecting
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- liposomes particle size prepared by ethanol injection Method. Research in Pharmaceutical Sciences, 12(5): 346-352. doi: 10.4103/1735-5362.213979.
46. Ali Nasr, **Ahmed Gardouh** and Mamdouh Ghorab (2016). Novel Solid Self-Nanoemulsifying Drug Delivery System (S-SNEDDS) for Oral Delivery of Olmesartan Medoxomil: Design, Formulation, Pharmacokinetic and Bioavailability Evaluation. *Pharmaceutics* ,8, 20. DOI:10.3390/pharmaceutics8030020.
 47. Ali M. Nasr, **Ahmed R. Gardouh**, Hassan M. Ghonaim and Mamdouh M. Ghorab (2016). Design, formulation and in-vitro characterization of Irbesartan solid self-nanoemulsifying drug delivery system (S-SNEDDS) prepared using spray drying technique. *Journal of Chemical and Pharmaceutical Research*, 8(2):159-183.
 48. Ali Nasr, **Ahmed Gardouh**, Hassan Ghonaim, Elsayed Abdelghany, Mamdouh Ghorab (2016). Effect of Oils, Surfactants and Cosurfactants On Phase Behavior And Physicochemical Properties of Self-Nanoemulsifying Drug Delivery System (Snedds) For Irbesartan And Olmesartan. *Int J App Pharm*, Vol 8, Issue 1,13-24.
 49. Mamdouh Ghorab, **Ahmad Gardouh**, Shadeed Gad. Effect of viscosity, method of preparation and homogenization speed on Physical Characteristics of Solid Lipid Nanoparticles. *International Journal of Pharmacy and Pharmaceutical Sciences*. Vol 7, Issue 3, 2015.
 50. Ahmed M. Nasef, **Ahmed R. Gardouh** and Mamdouh M. Ghorab (2015). Polymeric nanoparticles: influence of polymer, surfactant and composition of manufacturing vehicle on particle size. *World J Pharm Sci*; 3(12): 2308-2322.
 51. Ramy B. Gales, Hassan M. Ghonaim, **Ahmed R. Gardouh**, Mamdouh M. Ghorab and Sabry S. Badawy (2014). Preparation and Characterization of Polymeric Mucoadhesive Film for Buccal Administration. *British Journal of Pharmaceutical Research* .476-453 :(4) . DOI: 10.9734/BJPR/2014/5399.
 52. **A. R. Gardouh**, (2013). Preparation and Characterization of Mucoadhesive Buccal Film for Delivery of Meloxicam. *British Journal of Pharmaceutical Research* 3(4): 743-766 .DOI: 10.9734/BJPR/2013/4288.
 53. **A. R. Gardouh** , Shadeed Gad, Hassan M. Ghonaim and Mamdouh M. Ghorab. Design and Characterization of Glyceryl monostearate Solid Lipid Nanoparticles by High Shear Homogenization” *British Journal of Pharmaceutical Research* 3(3): 326-346, 2013.
 54. **A. R. Gardouh** , Shadeed Gad, Mamdouh M. Ghorab. preparation and characterization of solid lipid micro/nanoparticles i. Effect of lipid concentration, surfactant type and concentration on physical characteristics of solid lipid Micro/Nanoparticles” *Zagazig J. Pharm. Sci.*, June, 2010Vol. - , No. 2, pp, 10-15.
 55. **Ahmed R. Gardouh**, Mamdouh M.Ghorab, H.A.Syaed. preparation and evaluation of sustained-release microcapsules of fluoxetine hydrochloride” *zagazig j. Pharm. Sci.*, June 2006 vol. 15, no. 1, pp. 37-45.

Research students supervised (theses supervision)

PhD students	4
Master students	25

⑪ Editorial boards : Al-Kitab Journal of pure sciences