

CURRICULUM VITAE



MAHA NASR SAYED ALY

1- Personal Profile

Sex: Female

Nationality: Egyptian

Email: maha2929@gmail.com; drmahanasr@pharma.asu.edu.eg

2- Current Position

Professor of Pharmaceutics, Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University, Egypt (Fast Track promotion for scientific excellence)

Executive manager of the international relations and academic cooperation sector, Faculty of Pharmacy, Ain Shams University, Egypt, which comprises six divisions; the academic cooperation office, the grants and projects office, the expatriates office, the patents office, the academic ranking office and the alumni office

3- Education

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|---------------------|---|
| January 2012 | Ph.D. of Pharmaceutical Sciences (Pharmaceutics), Title "Advanced delivery systems for pulmonary administration" Department of Pharmaceutics, Faculty of Pharmacy, Ain Shams University. |
| May 2011 | Certificate of Pharmaceutical Bioinformatics from the department of pharmaceutical biosciences, Uppsala University, Sweden(Grade pass with distinction) |
| January 2008 | M.Sc. , of Pharmaceutical Sciences (Pharmaceutics), Title "Lipid based and vesicular aceclofenac delivery systems for topical administration"
Department of Pharmaceutics, Faculty of Pharmacy, Ain Shams University. |
| May 2003 | B.Sc. , of Pharmaceutical Sciences, Faculty of Pharmacy, Ain Shams |

University with general grade “Excellent with Honors”.

4- Posts Held

- **8-10/2022:** Visiting Researcher at Charite´ University, Germany
- **11/2020 – 11/2021:** Co-president of the Arab German young academy of Sciences and Humanities AGYA
- **10/2019-current:** Adjunct Faculty at the Center of Materials Science, Zewail City of Science and Technology, Egypt
- **6-8/2019:** Visiting researcher at Berlin Brandenburger Center for Regenerative Therapies, Charite´ University, Berlin and Helmholtz Institute for Pharmaceutical research, Saarland University, Germany
- **2019:** Member of the Organization for Women in Science in developing countries (OWSD)
- **2018:** Visiting scientist, Institute of Pharmaceutical Sciences, King’s college, UK
- **9/2017-9/2019:** Associate Professor of Pharmaceutics, Department of Pharmaceutical Technology, Faculty of Pharmacy, Mutah University, Jordan
- **2018-2022:** African academy of sciences AAS affiliate
<https://aasciences.africa/affiliate/50>
- **9/2017:** Future Leader of the Science and Technology in society STS forum, Japan
- **7/2017-current:** Next Einstein Forum (NEF) fellow (African Institute for Mathematical Sciences (AIMS) <http://nef.org/meet-nef-fellows/2017-2019-nef-fellows/maha/>
- **7/2017-current:** Elected member of the Arab-German young academy of sciences and Humanities (AGYA), and steering committee member (2019/2020)
http://agya.info/members/?no_cache=1&tx_agyamemberdb_memberdbdetails%5Bmember%5D=67&tx_agyamemberdb_memberdbdetails%5Baction%5D=showDetails&tx_agyamemberdb_memberdbdetails%5Bcontroller%5D=Details&cHash=7e889eb83d3f3c798d144748f9080a9f
- **1/2017-1/2022:** Elected member of Global young academy (GYA), Berlin, Germany
<https://globalyoungacademy.net/maha-nasr/>

- **12/2016-12/2020:** TWAS-ARO (The world academy of sciences for the advancement of science in developing countries) Arab regional office young affiliate
<http://www.bibalex.org/TWAS-ARO/en/YoungAffiliate/Index.aspx>
- **2/2017-6/2017:** Lecturer of Dosage form design, Department of Pharmaceutics and Industrial Pharmacy, British University in Egypt (BUE)
- **9/2016-2/2017:** Lecturer of Biopharmaceutics and pharmacokinetics, Department of Pharmaceutics and Industrial Pharmacy, British University in Egypt (BUE)
- **3/2016-3/2017:** Africa Science Leadership ASLP fellow
<https://globalyoungacademy.net/africa-science-leadership-programme-announces-2016-fellows/>
<http://www.up.ac.za/en/centre-for-the-advancement-of-scholarship/article/2231631/aslp-2016>
<http://www.futureafrica.science/index.php/profile/Maha%20-Aly-60>
- **2/2016-6/2016:** Lecturer of Community Pharmacy, Department of Clinical Pharmacy, Misr International University (MIU)
- **9/2015- 1/2016:** Lecturer of biopharmaceutics and pharmacokinetics, Department of Pharmaceutics, British University in Egypt (BUE)
- **12/2015-1/2016:** Honorary visiting scientist, Centre for Pharmaceutical Engineering Science, University of Bradford, UK
- **2/2015 - 7/2015** Lecturer of Pharmaceutics, Department of Pharmaceutics, Misr International University (MIU), Cairo, Egypt.
- **2015:** Daniel Turnberg fellow, The Academy of medical sciences
<http://www.acmedsci.ac.uk/grants-and-schemes/grant-schemes/daniel-turnberg-travel-fellowship/>
- **2/2014- 7/2014:** Lecturer of Community Pharmacy, Department of Clinical Pharmacy, Misr International University (MIU), Cairo, Egypt
- **4/2012-4/2017:** Lecturer of Pharmaceutics and Industrial Pharmacy, Department of Pharmaceutics and Industrial Pharmacy, Ain Shams University, Cairo, Egypt
- **4/2013-10/2013:** Postdoctoral fellow, Division of Drug delivery technology, Leiden Academic Center for Drug Research, Leiden University, Netherlands

- **3/2013:** Biovision.Nxt fellow, The world academy of Sciences TWAS
- **12/2010-5/2011:** Visiting Scientist and Researcher, School of Pharmacy and Biomedical Sciences and Institute of Nanotechnology and Bioengineering, University of Central Lancashire, United Kingdom.
- **2008- 2011:** Assistant Lecturer of Pharmaceutics, Department of Pharmaceutics, Faculty of Pharmacy, Ain Shams University-Cairo, Egypt.
- **2008:** Project coordinator, The Experimental and Advanced Pharmaceutical Research Unit (EAPRU), Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.
- **2003-2007:** Teaching Assistant, Department of Pharmaceutics, Faculty of Pharmacy, Ain Shams University-Cairo, Egypt.
- **2003-2004:** Senior Pharmacist, Al Tayseer Community Pharmacy, Al Tayseer Hospital, Cairo, Egypt.

5- Teaching Experience

Institution	Level	Courses Taught
1- Ain Shams University, Faculty of Pharmacy	Undergraduates	Physical Pharmacy, Pharmaceutics 1-3, Biopharmaceutics and Pharmacokinetics, Pharmacy Practice, Dosage form design, Pharmacy Law, Quality assurance, Sterile dosage Forms, OTC medications, GMP
2- Ain Shams University, Faculty of Pharmacy	M.Sc. students	Differential Scanning Calorimetry and FTIR Principles. Dosage form design, Computer aided drug design
3- Ain Shams University, Faculty of Pharmacy	PhD. students	Scientific Writing and Research Ethics Pharmacokinetics
4- Ain Shams University, Faculty of Pharmacy	Undergraduates and Postgraduates	Advanced Concepts in Clinical Pharmacy Services.
5- Ain Shams University, Faculty of Pharmacy	Postgraduates	Special courses in clinical diploma
6- Misr International University	Undergraduates	Community pharmacy, pharmaceutics 1
7- British University in Egypt	Undergraduates	Biopharmaceutics and Pharmacokinetics
8- College of Pharmacy	Undergraduates	Drug delivery systems, Pharmaceutics

Mutah University
Jordan

Epidemiology, Pharmacognosy, Phytotherapy,
Technical writing, Pharmaceutical Technology

9- Zewail City for Science
and Technology, Egypt

Undergraduates

Special topics in Nanomedicine
Nanomaterials for regenerative medicine and
tissue engineering
Nanopharmaceutics

Postgraduates

Nanomaterials for Biomedical applications

6- Publications

h index: 36

i-10 index: 71

Number of citations: 3371

Scopus author ID: 23470343200

<http://orcid.org/0000-0002-0912-7011>

<https://scholar.google.com/citations?user=x1Q70GUAAAJ&hl=en>

* corresponding author (73% of internationally published articles and book chapters)

Internationally published papers

1- Walaah Ahmed, Riham I. El-Gogary, **Maha Nasr***, Omaima A. Sammour

Development and in-vitro / in-vivo evaluation of itopride hydrochloride expanding tablets

Journal of Pharmaceutical Innovation, in press

<https://link.springer.com/article/10.1007/s12247-023-09729-2>

2- Sally Abdelfattah, Abdelkader Ali Metwally, **Maha Nasr***

Silymarin chitosan-modified penetration enhancer microvesicles as a promising wound healing tool

Journal of Drug Delivery Science and Technology, Volume 84, June 2023, 104430.

<https://www.sciencedirect.com/science/article/abs/pii/S1773224723002824#:~:text=Silymarin%20has%20powerful%20antioxidant%20and%20anti-inflammatory%20activities%20which,vesicles%2C%20for%20enhancing%20the%20skin%20penetration%20of%20silymarin.>

3- **Maha Nasr**, Omar A.H. Ahmed-farid, Rania F. Ahmed

Curcumin-resveratrol nano-formulation counteracting hyperammonemia in rats

Metabolic Brain disease, in press

<https://link.springer.com/article/10.1007/s11011-023-01162-1>

4- Eman M. E. Dokla, Nader S. Abutaleb, Sandra N. Milik, Ezzat A. E. A. Kandil, Omar M. Qassem, Yehia Elgammal, **Maha Nasr**, Martin J. McPhillie, Khaled A. M. Abouzid,

Mohamed N. Seleem, Peter Imming, Mai Adel

SAR investigation and Optimization of Benzimidazole-based Derivatives as Antimicrobial Agents Against Gram-Negative Bacteria

European Journal of Medicinal Chemistry, 2023 Feb 5;247:115040. doi: 10.1016/j.ejmech.2022.115040.

<https://www.sciencedirect.com/science/article/abs/pii/S0223523422009424?via%3Dihub>

5- Mai Mansour, **Maha Nasr***, Omar A.H. Ahmed-Farid, Rania F. Ahmed

Intranasal ondansetron microemulsion counteracting the adverse effects of cisplatin: Animal study
Pharmacological Reports, 75, 199-210, 2023.

<https://link.springer.com/article/10.1007/s43440-022-00435-3>

6- Abdullah I El-Kholy, Doaa Abdel Fadeel, **Maha Nasr**, Ibrahim El-Sherbiny, Abeer Tawfik, Yasser O. Mosaad, Maha Fadel

Topical Eosin / polypyrrole nanoparticles hydrogel for treatment of hidradenitis suppurativa: In vivo trans-epidermal permeation study and clinical case report

Pharmaceutics, 14 (10), 2197, 2022.

<https://www.mdpi.com/1999-4923/14/10/2197>

7- Alaa Ibrahim, Sara A. Abdel Gaber, Mohamed Fawzi Kabil, Omar A.H. Ahmed-Farid, Anna K.H. Hirsch, Ibrahim M. El-Sherbiny **Maha Nasr***

Baicalin lipid nanocapsules for treatment of glioma: characterization, mechanistic cytotoxicity, and pharmacokinetic evaluation

Expert Opinion on Drug Delivery, 19(11), 1549-1560, 2022.

<https://www.tandfonline.com/doi/full/10.1080/17425247.2022.2139370>

8- Marawan Abd Elbaset, **Maha Nasr***, Bassant M. M. Ibrahim, Omar A.H. Ahmed-Farid, Rofanda M. Bakeer, Nabila S. Hassan, Rania F. Ahmed

Curcumin nanoemulsion counteracts hepatic and cardiac complications associated with high-fat/high-fructose diet in rats

Journal of Food Biochemistry, 2022 Sep 27:e14442. doi: 10.1111/jfbc.14442. Online ahead of print.

<https://onlinelibrary.wiley.com/doi/10.1111/jfbc.14442>

9- Sara Barakat, **Maha Nasr***, Rania F. Ahmed, Sabry Badawy, Nahed Mortada

Recent formulation advances of mangiferin

Revista Brasileira de Farmacognosia, <https://doi.org/10.1007/s43450-022-00297-z>

<https://link.springer.com/article/10.1007/s43450-022-00297-z>

10- Rania F. Ahmed, **Maha Nasr***, Marawan Abd Elbaset, Alyaa F. Hussein, Omar A.H. Ahmed-Farid, Nermin Shafee, Marwa E. Shabana

Combating hematopoietic and hepatocellular abnormalities resulting from administration of cisplatin: Role of liver targeted glycyrrhetic acid nanoliposomes loaded with amino acids

Pharmaceutical Development and Technology, 2022 Nov;27(9):925-941. doi: 10.1080/10837450.2022.2129687.

<https://www.tandfonline.com/doi/abs/10.1080/10837450.2022.2129687?journalCode=iphd20>

11- Moustafa S. Ali, Mona Elhabak, Rihab Osman, **Maha Nasr***

Towards More Efficient Inhalable Chemotherapy: Fabrication of Nanodiamonds-Releasing Microspheres.

International Journal of Pharmaceutics, 2022 Oct 15;626:122169. doi: 10.1016/j.ijpharm.2022.122169. Epub 2022 Sep 6

<https://www.sciencedirect.com/science/article/abs/pii/S0378517322007232>

12- Eman A. Bseiso, Sarah A. Abd El-Aal, **Maha Nasr**, Omaima A. Sammour, Nabaweya A. Abd El Gawad

Nose to brain delivery of melatonin lipidic nanocapsules as a promising post-ischemic neuroprotective therapeutic modality

Drug Delivery, volume 29, 2469-2480, 2022.

<https://www.tandfonline.com/doi/full/10.1080/10717544.2022.2104405>

13- Eman A. Bseiso, Sarah A. Abd El-Aal, **Maha Nasr***, Omaima A. Sammour, Nabaweya A. Abd El Gawad

Intranasally administered melatonin core-shell polymeric nanocapsules: A promising treatment modality for cerebral ischemia

Life Sciences, volume 306, 120797, 2022.

<https://www.sciencedirect.com/science/article/abs/pii/S0024320522004970>

14- Ayman Ismail, Moataz Gamal, **Maha Nasr***

Optimization of an analytical method for simultaneous determination of acetaminophen, caffeine, and aspirin in tablet dosage form

Pharmaceutical Chemistry Journal, volume 56, 1682-1688, 2023.

<https://link.springer.com/article/10.1007/s11094-023-02844-x>

15- Ramy Said-Elbahr, **Maha Nasr***, Mohamed A. Alhnan, Ismail Taha, Omaima Sammour

Simultaneous pulmonary administration of celecoxib and naringin using a nebulization-friendly nanoemulsion: A device-targeted delivery for treatment of lung cancer

Expert Opinion on Drug Delivery, Volume 19(5), 611-622, 2022.

<https://www.tandfonline.com/doi/abs/10.1080/17425247.2022.2076833?src=&journalCode=iedd20>

16- Ghada Yasin, **Maha Nasr**, Sara A. Abdel Gaber, Dirk Hüttenberger, Maha Fadel
Response surface methodological approach for optimization of photodynamic therapy of onychomycosis using chlorine e6 loaded nail penetration enhancer vesicles
Journal of Photochemistry & Photobiology, B: Biology, 2022 Jul;232:112461.
<https://www.sciencedirect.com/science/article/abs/pii/S1011134422000756>

17- Shymaa Hatem, Reham S. Elezaby, **Maha Nasr**, Noha H. Moftah, Maha H Ragai, Seham A. Elkheshen, Amany O. Kamel, Nada M. El Hoffy
Functionalized chitosan nanoparticles for cutaneous delivery of a skin whitening agent: An approach to clinically augment the therapeutic efficacy for melasma treatment
Drug Delivery, Volume 29, issue 1, 2022, pages 1212-1231.
<https://www.tandfonline.com/doi/full/10.1080/10717544.2022.2058652>

18- Riham I. El-Gogary, **Maha Nasr***, Laila A. Rahsed, Mohamed A. Hamzawy
Ferulic acid nanocapsules as a promising treatment modality for colorectal cancer: Preparation and in vitro/in vivo appraisal
Life Sciences, Volume 298, 1 June 2022, 120500
<https://www.sciencedirect.com/science/article/abs/pii/S0024320522002004>

19- Alaa Ibrahim, **Maha Nasr***, Ibrahim M. El-Sherbiny
Baicalin as an emerging magical nutraceutical molecule: Emphasis on pharmacological properties and advances in pharmaceutical delivery
Journal of Drug Delivery Science and Technology, Volume 70, April 2022, 103269
<https://www.sciencedirect.com/science/article/abs/pii/S1773224722001794>

20- Robert M Frederickson, Thomas Ritter, Kevin Morris, Marcin Kortylewski, **Maha Nasr**, Roland W Herzog
Call for papers: Exploiting extracellular vesicles as therapeutic agents
Molecular Therapy, 2022 Mar 2, Volume 30, Issue 3, 979.
[https://www.cell.com/molecular-therapy-family/molecular-therapy/fulltext/S1525-0016\(22\)00090-9](https://www.cell.com/molecular-therapy-family/molecular-therapy/fulltext/S1525-0016(22)00090-9)

21- Dalia O. Saleh, **Maha Nasr***, Azza Hassan, Sally A. El-Awdan, Gehad A. Abdel Jaleel
Curcumin Nanoemulsion Ameliorates Brain Injury in Diabetic Rats
Journal of Food Biochemistry, 2022 Jul;46(7):e14104. doi: 10.1111/jfbc.14104.
<https://onlinelibrary.wiley.com/doi/full/10.1111/jfbc.14104>

22- Mohamed Fawzi Kabil, **Maha Nasr**, Ismail T. Ibrahim, Yasser A. Hassan, Ibrahim M. El-Sherbiny

New repurposed rolapitant in nanovesicular systems for lung cancer treatment: Development, in-vitro assessment and in-vivo biodistribution study

European Journal of Pharmaceutical Sciences, 2022, Volume 171, 106119.

<https://www.sciencedirect.com/science/article/pii/S0928098722000045>

23- Mennatallah Mohamed, **Maha Nasr**, Walid Elkhatib, Wafaa Eltayeb, Aliaa Elshamy, Gharieb El-Sayyad

Nanobiotic formulations as promising advances for combating MRSA resistance: Susceptibilities and post-antibiotic effects of clindamycin, doxycycline, and linezolid

RSC Advances, 2021,11, 39696-39706.

<https://pubs.rsc.org/en/content/articlelanding/2021/ra/d1ra08639a>

24- Abdullah I El-Kholy, Doaa Abdel Fadeel, **Maha Nasr**, Ibrahim El-Sherbiny, Maha Fadel (Rose Bengal)/ (Eosin Yellow)-Gold-Polypyrrole Hybrids: A Design for Dual Photo-Active Nano-System with Ultra-High Loading Capacity

Drug Design, Development and Therapy, December 2021, Vol. 15, pages 5011-5023.

<https://www.dovepress.com/rose-bengaleosin-yellow-gold-polypyrrole-hybrids-a-design-for-dual-pho-peer-reviewed-fulltext-article-DDDT>

25- **Maha Nasr***, Hend Abd-Allah, Omar A.H. Ahmed-Farid, Rofanda M. Bakeer, Nabila S. Hassan, Rania F. Ahmed

A comparative study between curcumin and curcumin nanoemulsion on High-Fat, High-Fructose diet-induced impaired spermatogenesis in rats

Journal of Pharmacy and Pharmacology, 2022, Vol. 74, pages 268-281.

<https://academic.oup.com/jpp/advance-article-abstract/doi/10.1093/jpp/rgab172/6470726?redirectedFrom=PDF>

26- Ghada M. El Zaafarany, **Maha Nasr***

Insightful exploring of advanced nanocarriers for the topical/transdermal treatment of skin diseases

Pharmaceutical Development and Technology, 2021 Dec;26(10):1136-1157. doi:

10.1080/10837450.2021.2004606.

<https://www.tandfonline.com/doi/abs/10.1080/10837450.2021.2004606?journalCode=iphd20>

27- Sandra Sherif Amer, **Maha Nasr**, Wael Mamdouh, Amr El Shaer, Elena Polycarpou, Rasha T.A. Abdel-Aziz, Omaila Sammour

Quercetin loaded cosm-nutraceutical electrospun composite nanofibers for acne alleviation: Preparation, characterization and experimental clinical appraisal

International Journal of Pharmaceutics, 2021 Nov 18:121309.
<https://www.sciencedirect.com/science/article/abs/pii/S0378517321011157>

28- Mahitab Bayoumi, Mona G. Arafa, **Maha Nasr***, Omaima A. Sammour
Nobiletin-loaded composite penetration enhancer vesicles restore the normal miRNA expression and the chief defence antioxidant levels in skin cancer
Scientific Reports, 2021 October 12, Volume 11(1): 20197.
<https://www.nature.com/articles/s41598-021-99756-1>

29- Mohamed Fawzi Kabil, **Maha Nasr**, Ibrahim M. El-Sherbiny
Conventional and hybrid nanoparticulate systems for the treatment of hepatocellular carcinoma: An updated review
European Journal of Pharmaceutics and Biopharmaceutics, 2021 Oct;167:9-37.
<https://www.sciencedirect.com/science/article/abs/pii/S0939641121001843?via%3Dihub>

30- Ghada M. El-Zaafarany, Rasha T.A. Abdel-Aziz, Mahmoud Hamdy Ahmed Montaser, **Maha Nasr***
Coenzyme Q10 phospholipidic vesicular formulations for treatment of androgenic alopecia: *Ex vivo* permeation and clinical appraisal
Expert Opinion on Drug Delivery, 2021 Oct;18(10):1513-1522.
<https://www.tandfonline.com/doi/abs/10.1080/17425247.2021.1936497?journalCode=iedd20>

31- Omar Abu-Azzam, Saed Aldalaen, **Maha Nasr***
Potential of the cytotoxic activity of the nutraceutical phloretin against cervical cancer by formulation into microemulsion
Pharmaceutical Chemistry journal, Volume 55, 1215-1218, 2022.
<https://link.springer.com/article/10.1007/s11094-022-02569-3>

32- Islam A. Arida, Isra H. Ali, **Maha Nasr***, Ibrahim M. El-Sherbiny
Electrospun Polymer-based Nanofiber Scaffolds for Skin Regeneration
Journal of Drug Delivery Science and Technology, August 2021, 102623.
<https://www.sciencedirect.com/science/article/abs/pii/S1773224721003038>

33- Riham I. El-Gogary, Maha H. Ragai, Noha Moftah, **Maha Nasr***
Oleuropein as a novel topical antipsoriatic nutraceutical: Formulation in microemulsion nanocarrier and exploratory clinical appraisal
Expert Opinion on Drug Delivery, 2021, 18(10), 1523-1532.
<https://www.tandfonline.com/doi/abs/10.1080/17425247.2021.1932813>

34- Noha Hesham Radwan, Rania A. H. Ishak, **Maha Nasr**, Gehanne A.S. Awad

Moxifloxacin-loaded In situ Synthesized Bioceramic/Poly(L-lactide-co-ε-caprolactone) Composite Scaffolds for Treatment of Osteomyelitis and Orthopedic regeneration

International Journal of Pharmaceutics, Volume 602, 1 June 2021, 120662.

<https://www.sciencedirect.com/science/article/abs/pii/S0378517321004671>

35- Maha Fadel, **Maha Nasr***, Reem Mostafa Hassan, Sarah Salah Thabet
Cationic zinc (II) phthalocyanine nanoemulsions for photodynamic inactivation of resistant bacterial strains

Photodiagnosis and Photodynamic Therapy, Volume 34, June 2021, 102301

<https://www.sciencedirect.com/science/article/abs/pii/S1572100021001277>

36- **Maha Nasr***

Editorial “Impact of Micro/Nanoencapsulation on the therapeutic outcome of drugs”

Current Drug Delivery, 2021, 18(3).

<https://www.eurekaselect.com/190842/article>

37- Hend Abd-Allah, **Maha Nasr***, Omar A.H. Ahmed-Farid, Salma A. El-Marasy, Rofanda M. Bakeer, Rania F. Ahmed

Biological and pharmacological characterization of ascorbic acid and nicotinamide chitosan nanoparticles against insulin resistance-induced cognitive defects: A comparative study

ACS Omega, Volume 6, issue 5, 2021, pages 3587-3601.

<https://pubs.acs.org/doi/10.1021/acsomega.0c05096>

38- Abdullah Alyoussef, Riham I. El-Gogary, Rania F. Ahmed, Omar AH Ahmed Farid, Rofanda M. Bakeer, **Maha Nasr***

The beneficial activity of curcumin and resveratrol loaded in nanoemulgel for healing of burn-induced wounds

Journal of Drug Delivery Science and Technology, Volume 62, April 2021, 102360.

<https://www.sciencedirect.com/science/article/abs/pii/S177322472100040X>

39- Aseel Khaled Al Sarayrah, Rasha Zakaria Al Tarawneh, **Maha Nasr***, Sherif S. Ebada

A comparative study of the efficacy of different Artemisia Cina extracts and their nanoparticulated forms against A549 lung cancer cell line

Pharmaceutical Chemistry Journal, 2020, 54, 938-942.

<https://link.springer.com/article/10.1007/s11094-020-02300-0>

40- Diana El-Hussien, Ghada M. El-Zaafarany, **Maha Nasr***, Omaima Sammour

Chrysin nanocapsules with dual anti-glycemic and anti-hyperlipidemic effects: Chemometric optimization, physicochemical characterization and pharmacodynamic assessment

International Journal of Pharmaceutics, 2021 Jan 5, 592, 120044.

<https://www.sciencedirect.com/science/article/abs/pii/S0378517320310292>

- 41- Ahmed Gouda, Omar S. Sakr, **Maha Nasr***, Omaima Sammour
Ethanol injection technique for liposomes formulation: an insight into development, influencing factors, challenges and applications
Journal of Drug delivery science and Technology, February 2021, Vol. 61, 102174.
<https://www.sciencedirect.com/science/article/abs/pii/S1773224720314635>
- 42- Mai Shaaban, **Maha Nasr***, Abeer Attia, Maha Fadel, Omaima Sammour
Bergamot oil as an integral component of nanostructured lipid carriers and a photosensitizer for photodynamic treatment of vitiligo: Characterization and clinical experimentation
Expert Opinion on Drug Delivery, 2021 Jan;18(1):139-150.
<https://www.tandfonline.com/doi/full/10.1080/17425247.2021.1844180>
- 43- Hend Abd-Allah, **Maha Nasr***, Omar A.H. Ahmed-Farid, Bassant M. M. Ibrahim, Rofanda M. Bakeer, Rania F. Ahmed
Nicotinamide and ascorbic acid nanoparticles against the hepatic insult induced in rats by high fat high fructose diet: A comparative study
Life Sciences, 2020, 2020 Dec 15;263:118540.
<https://www.sciencedirect.com/science/article/abs/pii/S0024320520312935>
- 44- Razan Altaweel, Aws Lafi, Weaam Ebrahim, Sherif S. Ebada, **Maha Nasr***
Honey-based extracts and their microemulsions in the treatment of liver and breast cancers
Pharmaceutical Chemistry journal, 2021, 55, 476-482.
<https://link.springer.com/article/10.1007/s11094-021-02444-7>
- 45- Shymaa Hatem, Nada M. El Hoffy, Reham S. Elezaby, **Maha Nasr***, Amany O. Kamel, Seham A. Elkheshen
Background and different treatment modalities for melasma: Conventional and nanotechnology-based approaches
Journal of Drug Delivery Science and Technology, 2020, Volume 60, 101984.
<https://www.sciencedirect.com/science/article/abs/pii/S1773224720312739>
- 46- Abdullah Alyoussef, **Maha Nasr***, Rania F. Ahmed, Omar AH Ahmed Farid, Rofanda Bakeer, Hrushikesh Karandikar, Anant Paradkar
Nicotinamide extrudates as novel anti-aging and collagen promoting platform: A comparative cosmeceutical study versus the gel form
Pharmaceutical Development and Technology, 2020 Nov;25(9):1139-1149.
<https://www.tandfonline.com/doi/full/10.1080/10837450.2020.1803908>
- 47- Lydia Ramzy, Abdelkader A. Metwally, **Maha Nasr***, Gehanne A.S. Awad
Novel thymoquinone lipidic core nanocapsules with anisamide-polymethacrylate shell for colon cancer cells overexpressing sigma receptors

Scientific Reports, 2020 July 3, 10(1):10987.

<https://www.nature.com/articles/s41598-020-67748-2>

48- **Maha Nasr***

Commentary on “Non-steroidal anti-inflammatory drugs loaded liposomes for topical treatment of inflammatory and degenerative conditions” by Carla Matos, FP-ENAS- UFP Energy, Environment and Health Research Unit/CEBIMED- Centro de Estudos em Biomedicina, Fernando Pessoa University, Porto, Portugal

Current Medicinal Chemistry, 2020; Vol 27, issue 27, 4577-4578.

<http://www.eurekaselect.com/182957/article?trendmd-shared=3>

49- Mona Soliman, Manal Salah, Maha Fadel, **Maha Nasr***, Heba El-Azab

Contrasting the efficacy of pulsed dye laser and photodynamic methylene blue nanoemulgel therapy in treating acne vulgaris

Archives of Dermatological Research, 2021 April, 313(3), 173-180.

<https://link.springer.com/article/10.1007/s00403-020-02093-y>

50- Noha Hesham Radwan, **Maha Nasr***, Rania A. H. Ishak, Nourtan F. Abdeltawab, Gehanne A.S. Awad

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A reliable predictive factorial model for entrapment optimization of a sodium bisphosphonate into biodegradable microspheres.

Journal of Pharmaceutical Sciences, Vol. 100, Issue (2), February 2011, Pages 612-621.

<http://onlinelibrary.wiley.com/doi/10.1002/jps.22297/abstract>

120- **Maha Nasr Sayed Aly***

Intra-articular drug delivery: A fast growing approach.

Recent patents on drug delivery and formulation. Vol. 2, number 3, November 2008, Pages 231-237.

<http://www.bentham.org/ddf/contabs/ddf2-3.htm>

121- **Maha Nasr***, Samar Mansour, Nahed D. Mortada, A.A. ElShamy.

Vesicular Aceclofenac systems: A comparative study between liposomes and niosomes.

Journal of Microencapsulation, Vol. 25, Issue 7 October 2008, Pages 499-512.

<http://www.informaworld.com/smpp/content~db=all~content=a792967635>

122- **Maha Nasr***, Samar Mansour, Nahed D. Mortada, A.A. ElShamy.

Lipospheres as carriers for topical delivery of aceclofenac. Preparation, characterization and in vivo evaluation.

AAPS PharmSciTech, Vol. 9, Number 1, March 2008, Pages 154-162.

<http://springerlink.com/content/0885r253485p5370/?p=e5945e5ec6634341b36a21851b60492d&pi=0>

Internationally published book chapters and drug profiles

1- Mohamed Fawzi Kabil, **Maha Nasr***

Deferasirox

Profiles of Drug Substances, Excipients, and related Methodology, Elsevier publishers, in press

2- Reham Samir Elezaby, **Maha Nasr**, Ibrahim M. El-Sherbiny

Mucosal vaccination through chitosan-based delivery systems

In: Chitosan in Biomedical Applications, published by Elsevier, in press.

<https://www.sciencedirect.com/science/article/pii/B9780128210581000022>

3- **Maha Nasr***, Riham I. El-Gogary, Hend Abd-Allah, Mona Abdel-Mottaleb

Nanoparticulate systems for wound healing

Book chapter, In: Nanopharmaceuticals 1st edition: Expectations and realities of multifunctional drug delivery systems, 2020, Volume 1 published by Elsevier, pages 73-90.

<https://www.sciencedirect.com/science/article/pii/B978012817778500004X>

4- Mona Abdel-Mottaleb, Hend Abd-Allah, Riham I. El-Gogary, **Maha Nasr***

Versatile hyaluronic acid nanoparticles for improved drug delivery

Book chapter, In: Drug delivery aspects published by Elsevier, 1st edition: Expectations and realities of multifunctional drug delivery systems, 2020, Volume 4 published by Elsevier, pages 1-18.

<https://www.sciencedirect.com/science/article/pii/B9780128212226000014>

5- Sara M. Abdel Samie, **Maha Nasr***

Food to medicine transformation of stilbenoid vesicular and lipid based nanocarriers: Technological advances

Book chapter, In: Drug delivery aspects published by Elsevier, 1st edition: Expectations and realities of multifunctional drug delivery systems, 2020, Volume 4 published by Elsevier, pages 217-245.

<https://www.sciencedirect.com/science/article/pii/B9780128212226000117>

6- **Maha Nasr***, Enas Elmowafy, Mahmoud Eid Soliman

The evolution of dendrimers to composite dendrimers: A review of the state of the art

Book chapter: In Nanoparticles in pharmacotherapy, Alex Grumezescu (Ed.), 1st Edition, **Elsevier publishers**, 2019, Chapter 8, pages 217-249.

<https://www.elsevier.com/books/nanoparticles-in-pharmacotherapy/grumezescu/978-0-12-816504-1>

Nationally published papers

1- Walaa Ahmed, Riham I. El-Gogary, **Maha Nasr**, Omaima Sammour

Current progress of oral site-specific dosage forms: Emphasis on gastroretentive drug delivery systems

Archives of Pharmaceutical Sciences Ain Shams University, in press

2- Shymaa Hatem, Nada ElHoffy, Reham Elezaby, **Maha Nasr**, Amany Osama, Seham A. Elkheshen

Optimization of the colloidal properties of chitosan nanoparticles encapsulating alpha-arbutin
Archives of Pharmaceutical Sciences Ain Shams University, Volume 6, Issue 1, 17-28
https://aps.journals.ekb.eg/article_246909.html

3- Sally Abdelfattah, **Maha Nasr**, Abdelkader Ali, Ahmed Shawky Genedy

Vesicular systems used for wound healing
Archives of Pharmaceutical Sciences Ain Shams University, Volume 5, Issue 1, 184-203.
https://aps.journals.ekb.eg/article_179174.html

4- Mohamed Salah Eleleemy, Basma Hamdy Amin, **Maha Nasr**, Omaima Samour

A succinct review on the therapeutic potential and delivery systems of Eugenol
Archives of Pharmaceutical Sciences Ain Shams University, 2020, 4(2), 290-311.
https://journals.ekb.eg/article_137363.html

5- Mahitab Bayoumi, Mona Arafa, **Maha Nasr**, Omaima Samour

Skin cancer therapy: From conventional to nutraceutical based nanovesicular carriers
Archives of Pharmaceutical Sciences Ain Shams University, 2020, 4(2), 253-269.
https://aps.journals.ekb.eg/article_135143.html

6- Noha Hesham, **Maha Nasr**, Rania A.H. Ishak, Gehanne A.S. Awad

Recent trends in the use of bioceramics for treatment of osteomyelitis
Archives of Pharmaceutical Sciences Ain Shams University, 2020, 4(1), 1-19.
https://aps.journals.ekb.eg/article_102055_15454.html

7- Sara Barakat, Maha Nasr, Nahed Mortada, Sabry Badawy

Preparation and characterization of mangiferin-loaded lipid nanocapsules
Archives of Pharmaceutical Sciences Ain Shams University, 2023, in press

7- Patents

Patent application to the Egyptian Patent Office (EGPO) number EG/P/2022/1380 dated 23/9/2022 titled “Advanced topical nanoformulations for treatment of melasma”

8- Conferences, workshops and webinars

1- Participated as a keynote speaker in the workshop titled “Collective Leadership and Career Advancement for early career researchers: An ASLP initiative” held in the iHUB of Ain Shams University, Egypt on 6 December 2022 with a presentation titled “Tips for career advancement”.

2- Participated in the workshop titled “Intellectual property and access to medicines” held from 10-11 October 2022 at the Faculty of Pharmacy, Ain Shams University

3- Participated in the UKICRS symposium with a poster titled “Nebulization-friendly nanoemulsion formulation for device-targeted co-delivery of celecoxib and naringin for treatment of lung cancer”, Manchester, UK, 9-10 June 2022.

Ramy Said-Elbahr, **Maha Nasr**, Mohamed A. Alhnan, Ismail Taha, Omailma Sammour

4- Participated as a keynote speaker in the international conference titled “**2nd International Conference on Transforming Ripples in Healthcare Research: Obstacles, Sustenance & Cutting-edge innovations**” (ICTRHR-2022), with a lecture titled “**Clinical applications of nanoparticles: Reality or fiction?**”, organized by the School of Medical Sciences, Adamas University, India, 10-11 February 2022.

5- Participated as a speaker in the webinar titled “**Science Policy and International young academics**” organized by the Egyptian young academy of Sciences EYAS, 13 March 2021.

6- Participated as a keynote speaker with a lecture titled “**Preclinical and clinical applications of nanotechnology: Emphasis on studies conducted in Egypt**” at the Egyptian Academics Together 2021 conference, 13 March 2021.

7- Participated as a keynote speaker with a lecture titled “**Overcoming the shortcomings of conventional medical treatment using nanotechnology**” at the fourth international Pharma virtual conference, 18-19 November 2020.

8- Participated as a speaker with a lecture titled “**Opportunities of nanotechnology in medicine**” organized by the Women in Science without borders initiative and SciComm X, 19 September 2020.

9- Participated as a keynote speaker with a lecture titled “**Opportunities of nanotechnology in medicine as well as in Covid-19**” at the first international conference titled “Maintenance of a safe life during the pandemic” from 24-27 September 2020 organized by the Biosciences Research Support Foundation.

10- Participated as a speaker with a lecture titled “**Using nanotechnology in medicine: how successful are we?**” **international online webinar** organized by the Arab Science Week, 19 August 2020.

11- Participated as a speaker with a lecture titled “**COVID-19 Now and Beyond: Perspectives from AAS affiliates**” **international online webinar** organized by the African Academy of Sciences, 6 August 2020.

12- “Nanotechnology: Opportunities and challenges” international online webinar organized by the African institute of Mathematical Sciences AIMS, 30 July 2020. Participated as a speaker.

13- “Reforming academia during and after COVID-19” online webinar organized by the Egyptian Young Academy of Sciences EYAS , 11 July 2020. Participated as a panelist/speaker with an oral presentation titled “Research management during and after COVID-19”.

14- “Empowering women in Science: unleashing latent talent” international online webinar, organized by Institute of Chemical Technology, Mumbai, India, 11 July 2020. Participated as a panelist/speaker with an oral presentation titled “Empowering women in developing countries: Challenges and Opportunities”.

15- Phi research and innovation summit (virtual conference), 3-4 July 2020. Participated as:
a) Speaker with an oral presentation titled “Shaping the future of medicine using nanotechnology”
b) Panelist in the session “Empowering women, Leading entrepreneurs in the middle east”
c) Moderator of the session “Role of academies in the career development and capacity building of young scholars”

16- Biovision Alexandria, Egypt, 14-15 April 2020. Participated with two posters titled “Nutraceutical nanoemulsions applications in burn healing” and “Resveratrol controlling the cardiac complications associated with high-fat high-fructose diet in rats”

17- 15th congress of ECCO (European Crohn’s and colitis organization), Vienna, Austria, 12-15 February 2020. Participated with a poster titled “The influence of short chain fatty acids by commensal bacteria on macrophage phenotype”.

18- The 10th international conference on laser applications (ICLA 10), Egypt, 23-28 November 2019. Participated as a keynote speaker with an oral presentation titled “Microneedle-assisted photodynamic therapy: A promising treatment modality for skin diseases”.

19- The Daniel Turnberg alumni conference, Cyprus, 19-21 November 2019. Participated with a poster presentation titled “Exploration of the applicability of nicotinamide hot melt extrudates in treatment of acne”.

20- The Grand challenges annual conference, Addis Ababa, Ethiopia, 27-31 October 2019. Participated with a poster presentation titled “Impact of nanotechnology on disease treatment: Preclinical and clinical insights” <https://gatesopenresearch.org/posters/3-1589> and to lead the breakout session titled “African Innovation, Research & Development Ecosystem” on how do we best retain, attract and support talented African innovators.

21- AAPS conference, San Antonio, USA, 3-6 November 2019. Participated (without attendance) with a **poster presentation** titled” Mangiferin loaded nanocapsules: Preparation and optimization” Sara Barakat, Maha Nasr, Sabry Badawy, Nahed Mortada

22- The 46th controlled release society CRS annual meeting, Valencia, Spain, 21-24 July 2019. Participated as a speaker with **an oral presentation** titled “A nano-nutraceutical approach for psoriasis treatment with clinical appraisal” in the session Delivery technologies in advanced preclinical-clinical stages, and **2 poster presentations** titled:

a) “Baicalin loaded nanocapsules: A promising anticancer modality”

Riham I. El-Gogary, Sara A. Abdel Gaber, Maha Nasr

b) “Nutraceutical assisted wound healing using vesicular nanoparticles “PEVs”

Saed Aldalaen, Maha Nasr, Riham I. El-Gogary

23- The 79th FIP World Congress of Pharmacy and Pharmaceutical Sciences 2019, Abu Dhabi, UAE, 22-26 September 2019. Participated with a poster titled “Modulatory effect of polymer type & concentration on ranolazine sustained release from matrix tablets”

24- HIPS symposium - Helmholtz-Institut für Pharmazeutische Forschung Saarland, 27-28 June 2019. Attendance

25- The 8th Ain Shams University conference, Egypt. Participated with a poster titled “Preparation and characterization of a versatile biodegradable and bioactive composite scaffold for bone disorders”, 1-3 April 2019.

26- The European forum Alpbach 2018, Austria. Participated as a session chair for the seminar “Precision medicine and its impact on society”, 16-21 August 2018

27- The 8th international conference of Mathematics and information sciences and the 5th conference of the Faculty of Education , 6th October University. Participated as a speaker with an oral presentation titled “Shaping the future of medicine using nanotechnology”, Egypt 8-10 February 2019.

28- International conference on current trends in higher education (ICCTHE-Adamas), themed Higher education: Challenges and perspectives in the context of globalization, participated as a speaker with a presentation titled “ Nanotechnology in medicine: from lab to preclinical and clinical applications, Adamas University, India, 21-22 January 2019.

29- My health seventh regional conference “Talk, listen, change”, participated as a speaker with a presentation titled “Secrets of nature in skin nutrition”, Al Sharjah University, UAE, 27-28 November 2018.

30- The second international conference of the Faculty of Pharmacy, Ain Shams University ICPASU, 13-15 November 2018. Participated with a poster titled “The effect of rosuvastatin polymeric nanocapsules on the cell cycle of hepatic cancer cells”

31- The AGYA workshop titled “Active pedagogical techniques in higher education: Combining multidisciplinary learner-centered educational experiences from Egypt, Germany, Malaysia and the United States”, Mutah University, Jordan, 3-4 October 2018. Participated as organizer and with an oral presentation titled “An implementation experience of active teaching for pharmacy students” <https://agya.info/research/research-projects-by-year/active-pedagogical-techniques-in-higher-education>

32- The AGYA international panel on ‘Science Education and Experimental Pedagogies’ on 11 October 2018, the Conference ‘Formation à l’esprit scientifique et pédagogies expérimentales d’apprentissage (FESPE 2018)’ in Tunis. Participated with a proceeding from the AGYA workshop “Active pedagogical techniques in higher education”.

33- The UKICRS workshop and symposium, Queen’s university of Belfast, Ireland, UK 5-6 June 2018. Participated with a poster presentation titled “Intranasal lipid nanocarrier systems for treatment of oxidative diseases”.

Eman A. Bseiso, Sara A. Abdl al, **Maha Nasr**, Omaima Sammour, Nabaweya A. Abd El Gawad

34- The 8th International conference of Young scientists and Annual meeting of the global young academy, Pattaya, Thailand 7-12 May 2018. Participated with an oral presentation titled “How can antioxidant nanoparticles counteract the age dependent androgenic alopecia”.

35- The First International Conference of the Faculty of Pharmacy, Mutah University, participated with an oral presentation titled “Improvement of stability and ocular pharmacokinetics of a flavone glycosidic drug using vesicular systems”, the Dead Sea, Jordan, 18-19 April 2018, and moderating the session of “Drug delivery”, and supervising undergraduate students project with poster presentation titled “Survey on the spread of antibiotics misuse in Jordanians”.

36- The Next Einstein Forum global gathering, participated as a speaker with a presentation titled “Suffering is optional”, Kigali, Rwanda, 26-28 March 2018

37- The Next Einstein Forum global gathering, participated as a panelist, the panel was titled "Inspiring the Next Generation: An Intergenerational Conversation with Top Scientists", Kigali, Rwanda, 26-28 March 2018

38- The 20th congress of the Arab Association of the Faculties of Pharmacy/5th International conference of the Jordanian Faculties of Pharmacy/2nd International conference of the Faculty of Pharmacy at Isra University, Jordan, 7-9 November 2017

Attendance

39- The sixth strategic conference of Ain Shams University, Egypt, 11-13 April 2017

Oral presentation titled "Plagiarism and how to avoid it".

40- The AGYA fellowship on translational research training program, 17-21 November 2018, American University in Cairo AUC. Participated as a speaker with a lecture titled "Research misconduct: Fabrication, falsification and plagiarism".

41- Fourth FUE international conference of Pharmaceutical Sciences, Egypt, 31 January-2 February 2017. Poster presentations entitled:

a) "Preparation and Characterization of (-)-Epigallocatechin-3-Gallate Vesicular Systems "

Maha ElKayal, Maha Nasr, Nahed Mortada, Seham ElKhashen

b) "Cosmeceutical vesicles for topical delivery"

Shymaa Hatem, Maha Nasr, Seham Elkheshen, Ahmed S. Genedi

42- Daniel Turnberg Alumni conference, Cyprus, 9-11 November 2016

Poster presentation entitled "Nebulizable nanosystems for treatment of pulmonary cancer: a promising approach"

43- Fourth Arab-American Frontiers of science, engineering and medicine symposium, hosted by the Masdar institute of Science Technology in Abu Dhabi, UAE, 5-7 November 2016.

Poster presentation and flash talk entitled "The emerging era of nanotechnology in the pharmaceutical field and its connection with other fields".

44- Dubai International pharmaceuticals and technologies conference and exhibition – DUPHAT, 15-17 March 2016

Poster presentation entitled "Effect of co-encapsulation of resveratrol with curcumin on the latter's anticancer potential in nanoparticulate form"

45- The 15th UKICRS workshop and symposium, University of Nottingham, United Kingdom, 15-16 April 2015

Poster presentation entitled "An optimized antipsoriatic microemulsion system for dermal delivery"

Maha Nasr, Sameh Abdelhamid

46- Dubai Municipality, 22-23 March 2015, Dubai, UAE. Invited guest speaker in the Regulatory and Safety Cosmetic Perspective workshop with two oral presentations entitled "Non-traditional actives in cosmeceuticals" and "Nanocosmeceuticals".

47- The 3rd FUE International conference on Pharmaceutical sciences, Cairo, Egypt, 9-11 February 2015

Poster presentation entitled "Preparation and characterization of antioxidant cosmeceutical formulations"

Shymaa Hatem, **Maha Nasr**, Seham Elkheshen, Ahmed S. Genedi

48- The 17th Scientific Congress of the association of colleges of pharmacy in the Arab world, Ain Shams University, Egypt, 14-16 October 2014.

a) Poster presentation entitled "Formulation Optimization of High Dose Nutraceuticals into an Oral Disintegration Tablet (ODT)"

Ahmed M. Agiba, Sameh M. Abdel-Hamid, **Maha Nasr**, Ahmed S. Genidy.

b) Poster presentation entitled "Optimization of formulation variables of bergamot oil nanostructured lipid carriers"

Mai Shaaban, **Maha Nasr**, Maha Fadel, Omaima A. Sammour.

c) Poster presentation entitled "Optimization of nanoemulsion formulations for treatment of lung cancer"

Ramy S.El-Bahr, **Maha Nasr**, Omaima A. Sammour.

d) Poster presentation entitled "Novel vesicular systems for treatment of skin fungal infections"

Eman A. Bseiso, **Maha Nasr**, Omaima. Sammour, Nabaweya A. Abd El Gawad.

49- Faculty of Pharmacy Cairo University, 5thInternational Scientific conference, 23-24 April 2014.

Poster presentation entitled "Penetration enhancer containing vesicles of sertaconazole for topical treatment of deep seated fungal infections"

Eman A. Biseso, **Maha Nasr**, Omaima A. Sammour, Nabaweya A. Abd El Gawad.

50- Materials Today Virtual conference: Biomaterials, 19-21 November 2013.

Attendance

51- 19th International Symposium on Microencapsulation, 9-11 September 2013, Pamplona, Spain.

Poster presentation entitled "Could liposomes be a suitable carrier for systemic delivery of an anti-osteoporotic drug via the pulmonary route?"

Maha Nasr*, Ismail Taha, Rania Hathout

52- Biovision, the world life sciences forum, 24-26 March 2013, Lyon, France.

Attendance

53- Future University International Workshop on Tablet Manufacturing, QC/QA, Bioavailability/Bio-equivalence, 20-21 February 2013, Egypt.

Attendance

54- FIP Centennial World Congress, 3-8 October 2012, Amsterdam, The Netherlands.

Poster presentation entitled “A feasibility study for nebulization of a model anti-asthma drug using dendrimers as nanocarriers”.

Maha Nasr^{*}, Abdelbary ElHissi, Antony D’Emanuele

55- FUE International conference on Pharmaceutical Technologies, 6-9 February 2012, Cairo, Egypt.

Attendance

56-United Kingdom and Ireland Controlled Release Symposium (UKICRS), 12-14 April 2011, Belfast, Ireland.

Participated with:

a) Poster presentation entitled “Pulmonary delivery of Amphotericin B using two commercially available nanoemulsions for treatment of aspergillosis”.

Maha Nasr^{*}, Samrana Nawaz, Abdelbary ElHissi, Waqar Ahmed, Antony D’Emanuele

b) Poster presentation entitled “Pulmonary delivery of beclomethasone dipropionate using PAMAM dendrimers as nanocarriers”.

Maha Nasr^{*}, Abdelbary ElHissi, Antony D’Emanuele

c) Oral and Poster presentation entitled “An Alternative Route of Administration for Bisphosphonates: From Theory to Practice”.

Maha Nasr^{*}, Gehanne A.S.Awad, Samar Mansour, Ismail Taha, Abdelhamid Alshamy, Nahed Mortada

57- First Middle East Congress of Pharmacy and Pharmaceutical Sciences, 26-28 November 2008, Sharm ElSheikh.

Oral presentation entitled: “Strategies to reduce medication errors and role of the pharmacist”.

58- The Egyptian pharmaceutical society conference of pharmaceutical sciences, 19-21 December 2006.

Poster presentation entitled: “Non inflammatory vesicular systems: a comparative study between liposomes and niosomes”.

Maha Nasr^{*}, Samar Mansour, Abdelhamid Alshamy, Nahed Mortada

9- PhD and Masters Theses supervision

- 1- Vesicular delivery systems for treatment of psoriasis (Master thesis, National Organization for drug control and research NODCAR) (**Completed 2016**).
- 2- A pharmaceutical study on photodynamic therapy for skin diseases (Master thesis, Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University) (**Completed 2017**).
- 3- Optimizing the nutraceutical formulations of chondroitin sulphate and glucosamine sulphate using certain pharmaceutical technologies (Master thesis, Sigma Pharmaceutical company) (**Completed 2017**).
- 4- Chitosan microspheres and ultraflexible liposomes as intranasal delivery systems of verapamil hydrochloride (Master thesis, Future University) (**Completed 2016**).
- 5- A pharmaceutical study on nebulizable delivery systems for pulmonary administration (Master thesis, Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University) (**Completed 2016**).
- 6- In situ gels and nanocomposite systems for intranasal delivery of dimenhydrinate (Master thesis, Misr International University) (**Completed 2016**).
- 7- Nanocarriers for the topical delivery of an antifungal drug (Master thesis, 6th of October University) (**Completed 2015**).
- 8- Preparation and characterization of antioxidant cosmeceutical formulations (Master thesis, Future University) (**Completed 2018**).
- 9- Nanoparticles for targeting colon cancer (Master thesis, Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University). (**Completed 2017**)
- 10- Formulation and evaluation of vesicular systems of a nutraceutical drug for targeting and treatment of skin cancer (PhD thesis, Future University). (**Completed 2019**)
- 11- Nano-delivery systems for treatment of an infectious parasitic cutaneous disease (PhD thesis, Al Sadat University)
- 12- Composite biodegradable systems for localized treatment of osteomyelitis (Master thesis, Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University). (**Completed 2020**)
- 13- Enhancement of the ocular delivery of baicalin using vesicular systems (Master thesis, Department of Pharmaceutics, Faculty of Pharmacy, Heliopolis University) (**Completed 2017**).

- 14- Preparation and characterization of nanoformulations for acne treatment (Master thesis, Department of Pharmaceutics, Faculty of Pharmacy, Pharos University in collaboration with the American University in Cairo) (**Completed 2019**).
- 15- Enhancement of the therapeutic effectiveness of eugenol using vesicles (Master thesis, Department of Pharmaceutics, Faculty of Pharmacy, Russian University) (**Completed 2022**)
- 16- Quality by design approach for formulation of itopride gastroretentive tablets (Master thesis, Central Administration for Pharmaceutical affairs) (**Completed 2023**)
- 17- Optimization of an ocular formulation for treatment of glaucoma (Master thesis, SigmaTech company) (**Completed 2020**).
- 18- Preparation and characterization of silymarin vesicular system customized for wound healing (Master thesis, Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University) (**Completed 2022**).
- 19- Nanocarriers for treatment of glioma (PhD thesis, Faculty of Pharmacy, British University in Cairo)
- 20- Development of solvent-free techniques for tablet manufacturing (Master thesis, Amoun Pharmaceutical company) (**Completed 2020**).
- 21- Vesicular systems for the topical delivery of nobiletin (Master thesis, British University in Cairo) (**Completed 2020**)
- 22- Preparation and characterization of vesicular nebulizable delivery systems for pulmonary administration (Master thesis, Nawah scientific company) (**Completed 2021**).
- 23- Preparation and optimization of chrysin nanoparticles (Master thesis, Heliopolis University) (**Completed 2021**).
- 24- Preparation, characterization and evaluation of novel nanoemulsions in photodynamic therapy (PhD thesis, National Institute of Laser Enhanced Sciences NILES) (**Completed 2021**).
- 25- PEVs as a novel nanocarrier for topical PDT (PhD thesis, National Institute of Laser Enhanced Sciences NILES) (**Completed 2022**)
- 26- Nanoparticles to overcome the pharmaceutical limitations and enhance the therapeutic efficacy of mangiferin (PhD thesis, Misr International University MIU) (**Completed 2023**)
- 27- Nanoparticles for brain targeting of melatonin (PhD thesis, October Six University) (**Completed 2022**)
- 28- Preparation and characterization of topical nanoformulations for treatment of melasma (PhD thesis, Future University) (**Completed 2022**).

29- Pharmaceutical and photothermal study of some conductive polymer-based nanosystems (PhD thesis, National Institute of Laser Enhanced Sciences NILES) (**Completed 2023**)

30- Preparation and characterization of targeted drug delivery systems for breast cancer treatment (PhD thesis, Faculty of Pharmacy, Ain Shams University).

31- Effect of topical delivery of nanoparticulated spironolactone on laser treatment of Hirsutism (PhD thesis, National Institute of Laser Enhanced Sciences NILES).

32- Cosmeceutical vesicular nanocarriers for skin aging (Master thesis, Faculty of Pharmacy, Ain Shams University).

33- Ligand-decorated gold nanoparticles as a platform for tumor delivery (PhD, Faculty of Pharmacy, Ain Shams University).

10- Role as external examiner of theses

1- Nanocarrier systems for taste masking of diclofenac potassium (PhD thesis, Cairo University, 2022)

2- Mitochondrial and sequential targeting of cancer using smart nano drug delivery systems (PhD thesis, Zewail City of Science and Technology, 2021).

3- Preparation and evaluation of nanovesicles containing an anticancer herbal drug (Masters thesis, Cairo University, 2021).

4- Nanocarriers as a tool for the dermal delivery of an antifungal agent (Masters thesis, Ain Shams University, 2021).

5- Investigation of chitosan nanoparticles as carrier for an anti-cellulite drug (Masters thesis, Cairo University, 2020).

6- Fortified 3D-Engineered Biomimicking Scaffolds for Bone Tissue Regeneration and Treatment of Diseases Associated with Bone Deformities (PhD thesis, Zewail City of Science and Technology, 2022).

7- Yeast Genetic Screening Approaches and Transcriptomic Analysis to Provide Novel Insights into DNA Damage Response (Masters thesis, Zewail City of Science and Technology, 2023).

8- Exploring the Links between High Glucose Levels, DNA Damage Response, and Metabolic Reprogramming (Masters thesis, Zewail City of Science and Technology, 2023).

9- Formulation and evaluation of nano drug delivery system for the enhancement of certain drug (Masters thesis, Cairo University, 2023).

11- Peer Reviewing roles

- 1- International Journal of Pharmaceutics
- 2- Clinical Drug Investigation journal
- 3- Biotechnology Progress journal
- 4- Carbohydrate Polymers journal
- 5- Reviewer of E-books for Bentham Science Publishers
- 6- International journal of Nanomedicine
- 7- Drug Delivery Journal
- 8- Local and Regional Anesthesia Journal
- 9- International Journal of Cancer
- 10- Journal of Pharmaceutical Sciences
- 11- Journal of Liposome Research
- 12- Journal of Pharmacy and Bioallied Sciences
- 13- Journal of Pharmacy and Pharmacology
- 14- Journal of Advanced Pharmaceutical Technology & Research
- 15- Journal of Microencapsulation
- 16- Indian Journal of Pharmaceutical Sciences
- 17- African Journal of Pharmacy and Pharmacology
- 18- Journal of Biomaterials Applications
- 19- Journal of Hazardous Materials
- 20- World Journal of Medicine and Medical Science Research
- 21- Current Drug delivery
- 22- Archives of Pharmaceutical Sciences
- 23- The pharmacy and pharmacology research
- 24- Journal of Materials Today proceedings
- 25- Medical practice and reviews
- 26- Journal of Traditional and complementary medicine
- 27- Journal of drug development and clinical trials
- 28- Current Nanomedicine
- 29- Current Pharmaceutical Design
- 30- Epidemiology and infection
- 31- Reviewer for Science and Technology Development fund (STDF) projects and grants
- 32- Journal of medicinal plants research
- 33- Clinical reviews and opinions
- 34- Drug development and Industrial Pharmacy
- 35- Journal of "Anticancer agents in medicinal chemistry"
- 36- Current Nanoscience
- 37- Micro and Nanosystems
- 38- Journal of applied Pharmaceutical Science
- 39- Journal of Advanced Research
- 40- Bioscience reports

- 41- Drug delivery letters
- 42- Journal of Nanotechnology: Nanomedicine & Nanobiotechnology
- 43- Journal of Radiation research and applied sciences
- 44- Acta Pharmaceutica
- 45- Journal of drug delivery science and technology
- 46- International journal of Pharma and Drug development
- 47- Colloids and Surfaces B Biointerfaces
- 48- Biomed Research International
- 49- Molecular Pharmaceutics
- 50- Elyns journal of pharmaceutical research
- 51- International journal of biological macromolecules
- 52- Saudi Pharmaceutical journal
- 53- Biomaterials Science
- 54- Trends in food science and technology
- 55- AAPS PharmSciTech
- 56- FEMS Microbiology Letters
- 57- Journal of Dermatology and skincare
- 58- RADS journal of pharmacy and pharmaceutical sciences
- 59- Future Oncology
- 60- Current Pharmaceutical Biotechnology
- 61- Current Medicinal Chemistry
- 62- Clinical Interventions in aging
- 63- Archives of Pharmaceutical Sciences Ain Shams University
- 64- Drug design, development and therapy
- 65- Scientific reports
- 66- Clinical, Cosmetic and investigational dermatology
- 67- Egyptian Journal of Chemistry
- 68- Archives of dermatological research
- 69- Medicinal research reviews
- 70- Therapeutic delivery
- 71- Journal of Pharmaceutics & Drug delivery research
- 72- ACS biomaterials science and engineering
- 73- Ocular and Cutaneous Toxicology
- 74- Materials Science and Engineering C
- 75- Food chemistry
- 76- Arabian Journal of Chemistry
- 77- Pharmaceutical Development and Technology
- 78- SAGE Open Medical Case Reports
- 79- Future Journal of Pharmaceutical Sciences
- 80- Nanomedicine (London)

81- Expert Opinion on Biological Therapy
82- Cell Biochemistry & Function
83- Life Sciences
84- Expert Opinion on Drug Delivery
85- Ceramics International
86- Biocell
87- Science Progress
88- Applied Biochemistry and Biotechnology
89- Pharmaceutical Research
90- Progress in Biomaterials
91- Journal of King Saud University
92- Acta Biomaterialia
93- Annals of Medicine
94- Heliyon
95- Metabolic Brain Disease
96- ACS Omega
97- Frontiers in Pharmacology
98- Biomedicine and Pharmacotherapy
99- Therapeutic advances in chronic disease
100- Journal of Nanobiotechnology
101- PLOS One
102- BMJ Open
103- ACS Applied Materials and Interfaces
104- Journal of Fluorine Chemistry
105- Journal of Nanostructure in Chemistry
106- Bioengineering
107- Journal of Taibah University Medical Sciences
108- Journal of Functional Biomaterials
109- Materials Today: Proceedings
110- Pharmaceuticals
111- Apoptosis
112- Pharmaceutical Biology
113- Pharmaceutics
114- International Journal of Immunopathology and Pharmacology
115- International Journal of Molecular Sciences
116- International Journal of Food Science and Technology
117- Open Nano
118- Bioactive Materials
119- Current Issues in Molecular Biology
120- Biomaterials Advances

- 121- Environmental Quality Management
- 122- Microorganisms
- 123- WIREs Nanomedicine & Nanobiotechnology
- 124- Particulate Science and Technology
- 124- Discover Nano
- 125- Journal of Oleo Science
- 126- Journal of Dispersion Science and Technology
- 127- Nanoscale

12- Rankings provided by journals

- 1- 1st most cited author in *Journal of Microencapsulation* (2008)
- 2- 1st most cited paper in *Journal of Microencapsulation* (2008)
- 3- 1st most published author in *Current Drug Delivery* (2018)
- 4- 2nd most published author in *Expert Opinion on Drug Delivery* (2021)
- 5- 6th most published author in *Current Drug Delivery* (Lifetime)
- 7- 10th most published author in *Journal of Drug Delivery Science and Technology* (2021)
- 8- 15th most cited author in *Drug Delivery* (2016)

13- Editorial roles

- 1- Editor in chief of "SPER Journal of Advances of Pharmaceutical Delivery"
 - 2- Editorial board member of the journal "ISRN Pharmaceutics"
 - 3- Guest Host Editor for the journal "Frontiers in Pharmaceutical Medicine and Outcomes Research"
 - 4- Editorial board member of "Elyns journal of Pharmaceutical Research"
 - 5- Associate editor of "Journal of Applied Pharmacy"
 - 6- Editorial board member of "International journal of medical and health sciences research"
 - 7- Editorial board member of "International journal of Pharma and drug development"
 - 8- Editorial board member of "Acta Scientific Pharmaceutical Sciences"
 - 9- Editorial board member of "Scientific reports" published by Nature
 - 10- Associate editorial board member of "Drug Delivery Letters" journal published by Bentham publishers
 - 11- Executive guest editor for "Current Drug Delivery" journal
 - 12- Associate Editor of "Molecular Therapy-Methods & Clinical development" published by Cell Press
- <https://www.cell.com/molecular-therapy-family/methods/editorial-board>
- 12- Review Editor for Frontiers in Drug Delivery

14- Grants

1- Research mobility grant (9400 EUR) funded by Berlin-Brandenburg academy of Sciences and Humanities, Germany for 2 months 1/8-30/9/2022 to visit Charite' University, Germany.

2- Research mobility grant (8520 EUR) funded by Berlin-Brandenburg academy of Sciences and Humanities, Germany for 2 months 15/6-15/8/2019 to visit Helmholtz institute for pharmaceutical research Saarland and Berlin Brandenburger Centrum fur regenerative therapien, Charite' University, Germany.

3- TYAN collaborative grant (3000 USD) provided by The world academy of Sciences TWAS as a visiting scientist at the Institute of Pharmaceutical Science, King's College London, UK for a period of 2 weeks for research conduction (2018).

4- A teaching grant (750 USD) provided by the US National Academy of Sciences, for teaching "Ensuring Scientific Integrity when it comes to Human Experimentation and Pharmacy Practice" for undergraduate students using active learning pedagogical approach (2015).

https://www.youtube.com/watch?v=eRHFqnrzeUU&index=4&list=PLX-u_S8LgTnkGU1JFyFeu6GismwOQhXt3

https://www.youtube.com/watch?v=eRHFqnrzeUU&index=4&list=PLX-u_S8LgTnkGU1JFyFeu6GismwOQhXt3

https://www.youtube.com/watch?v=roF3_4GXFYc

5- The Daniel Turnberg UK/Middle East Honorary visiting researcher travel fellowship grant for one month awarded by the UK Academy of Medical Sciences and funded by the Wellcome trust, for initiation of research collaboration with the Centre of Pharmaceutical Engineering Science, the University of Bradford (2015).

6- Six months funded research grant from the Missions Department, Egypt, for research conduction at the University of Leiden, the Netherlands (2013).

7- Six months funded research grant from the Missions Department, Arabic Republic of Egypt, for research conduction at the University of Central Lancashire, United Kingdom (2010/2011).

15- Projects

1- Co-principal investigator in a project of the "Short term fellowship category" (Project ID 6087,code TC/14/STF/2013/6087) entitled "A pharmaceutical study on nebulizable delivery systems for pulmonary administration for treatment of lung cancer" in collaboration with the School of Pharmacy and Biomedical Sciences, University of Central Lancashire, United Kingdom, with a budget of 133,000 EGP funded by Science and Technology Development Fund (STDF) for a period of one year (2014)

- 2- Co-principal investigator in a project of “Basic and Applied Research category” Project ID 5313 entitled “Design and molecular characterization of Nano/Micro-particulated immunogenic heat-stable enterotoxin of enterotoxigenic Escherichia coli for prevention of colibacillosis in newly born calves” with a budget of 921 thousand EGP funded by Science and Technology Development Fund (STDF) for a period of two years (2014-2016), in collaboration with the Faculty of Veterinary Medicine, Assiut University.
- 3- Formulator in COMPACT (collaboration on the optimization of macromolecular pharmaceutical access to cellular targets) IMI (innovative medicines initiative) project, Leiden Academic Center for Drug Research, Netherlands for a period of 6 months (2013).
- 4- Formulator in a project entitled "Effect of curcumin nanoparticles on brain injury in diabetic rats" funded by the National Research Center (NRC) (2016).
- 5- Team member and implementer of a capacity building project entitled "Science capacity building in Africa: Institutional and Academy of Science model" under the patronage of Africa Science Leadership programme ASLP and the University of Pretoria, South Africa.
- 6- Team member of a project entitled "Combating obesity complications using advanced drug delivery systems and nanotechnology for the purpose of enhancing therapeutic materials" funded by the National Research Center (NRC) with a budget of 150,000 EGP for 3 years (2016-2019).
- 7- Team member of a project titled “Nanosystems in topical photodynamic therapy and photodynamic diagnosis: preparation, characterization and clinical evaluation” funded by Cairo University with a budget of 200,000 EGP for 2 years (2018-2020).
- 8- Supervisor of a project titled “Composite biodegradable systems for localized treatment of osteomyelitis” funded by Ain Shams University, Egypt with a budget of 50,000 EGP (2019).
- 9- Team member of a project titled "Curbing hepatocellular energy resulting from malnutrition or administration of anticancers: Role of liver targeted nano-formulations loaded with amino acids” funded by the National Research Center (NRC) with a budget of 100,000 EGP for 2 years (2020-2022).
- 10- Team member of a project titled “Multicenter randomized controlled single blind clinical trial for the treatment of onychomycosis” funded by the Academy of Science and Research Technology ASRT (project ID 20195204) with a budget of 3 million EGP for 2 years (2020-2022).
- 11- Principal investigator of a project titled “Nanodiamonds: A delivery system of an anticancer drug for treatment of lung cancer” ID 43004 of type Research support-Youth grant funded by the Science and Technology development fund STDF with a budget of 98,800 EGP for one year (2020/2021).

12- Team member/Consultant of a project titled “Research Ethics in emergency care” funded by the National Institute of Health NIH in collaboration with Maryland University, USA (2019-2020).

13- Principal investigator of a project titled “Design and evaluation of lipidic nanoparticles for non-invasive treatment of brain tumors” funded by Science, Technology & Innovation funding authority ID 43686 of the type “Research support grant” with a budget of 199, 560 EGP (2021).

14- Team member of a project titled “Plant-Derived Natural Products: An Interdisciplinary Investigation of their Impact on Health & Society” funded by the German Federal Ministry of Education and research BMBF via the Arab-German young academy of sciences and humanities AGYA with a budget of 51,000 Euros (2021).

15- Supervisor of undergraduate students’ graduation project titled “Formulation and characterization of a nanotechnology based product of a novel antibacterial compound for wound healing” funded by the Academy of Science, Research and Technology (ASRT) with a budget of 75,000 EGP (2022).

16- Research team member in the project titled “Natural product based nanomedicine in the alleviation of neurocognitive impairment induced by Chemot” funded by the Academy of Science, Research and Technology (ASRT) with a budget of 1.5 million EGP (2022).

17- Team member of a project titled “Methicillin-resistant Staphylococcus aureus: From genome-wide association to nanotechnology-based therapeutics” funded by the International Centre for genetic engineering and biotechnology (ICGEB) with a budget of 33,500 Euros (2023-2024).

16- Prizes and recognitions

1- Khalifa award for education (Most distinguished university professor at the level of the Arab world), UAE, 2023.

2- Selection as a member of the Expert committee for reviewing monographs in the Egyptian Pharmacopoeia, Egyptian Drug Authority EDA (2022).

3- Selection as a member of the Drug Research Council by the Ministerial decision number 145 dated 29/9/2021.

4- Selection as a member of the National Drug committee by the decision number 190 of the president of the Academy of Scientific Research and Technology ASRT dated 20/6/2022.

5- The state prize for individuals in the field of drugs and medicinal formulations (Professor Dr. Abdo Sallam prize), 2020.

6- Selection as among the top 2% of scientists of all disciplines worldwide in 2019, 2020 and 2021 according to the Updated science-wide author databases of standardized citation indicators

published in PLOS Biology
<https://journals.plos.org/plosbiology/article?id=10.1371/journal.pbio.3000918>

7- Selection among the Scientific committee of the Arab Pharmacists Union

8- Nomination by the Egyptian National Commission For UNESCO as one of three scientists from Egypt for the UNESCO-Equatorial Guinea International prize for research in life sciences 2020

9- The Egyptian Presidential Excellence accolade of the highest grade 2020

10- African Union Kwame Nkrumah for scientific excellence regional award 2019 in the field of Life and Earth Sciences and Innovation

11- The state prize for individuals in the field of medical sciences (Professor Dr. Shawky Al-Hadad prize for cancer tumors), 2018. <http://www.asrt.sci.eg/ar/images/prizar/indv-2018.pdf>

12- Arab Company for Drug Industries & Medical appliances ACDIMA-Egypt award 2018, for the best scientific research in the field of applied pharmaceutical sciences. <https://acdima-egypt.com/acdima-award/>

13- COMSTech award for excellence in science and technology 2017 for best research paper award in biology. <https://www.comstech.org/comstech-awards/>

14- The Obada prize for distinguished researchers under 40 years 2019, supported by the African Academy of Sciences. <https://obadaprize.com/portfolio-item/2019-winners-2/>

15- The state encouragement prize in the field of advanced technological sciences serving the medical sciences 2017.

16- The international publishing award from Ain Shams University (2009, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020)

17- Certificates of merit from the Quality Assurance Unit, Faculty of Pharmacy, Ain Shams University for excellence in teaching

18- Next Einstein fellowship award by the president of Rwanda on 27 March 2018, Kigali.

19- Chosen as one of five young female scientists from developing countries to participate in joint research and training programs in Japan, based on selection by the United Nations conference on Trade and Development UNCTAD, Okayama University and the countries' permanent missions in Geneva, Switzerland.

17- Training Courses

A) International:

i) **Fifth Virtual Training Workshop on Bioinformatics** by the Asian Bioinformatics Research and Education Network (ABREN)(Kyushu institute of technology and Advanced technology institute, Japan) (2011).

ii) **Laser Diffraction technique for Particle sizing & method development** webinar by Malvern Company (2012).

iii) **Protection of human subjects** training by the CITI Collaborative Institutional training initiative (2020)

iv) **Science for policy-Maximize your policy impact** training by EU academy, European Union (9/5/2023)

B) National:

I- Certified from FLDC (Faculty and Leadership Development Center), Ain Shams University:

- 1- Effective communication skills.
- 2- Application of credit hours systems in universities.
- 3- The use of technology in teaching.
- 4- Competitive research projects skills.
- 5- Ethics of scientific research.
- 6- Scientific papers publications.
- 7- Effective presentation skills.
- 8- Proper student assessment and exam preparation.
- 9- Conferences organization
- 10- Digital libraries
- 11- Quality standards in the teaching process
- 12- Ethics of academic profession
- 13- Legal and Financial aspects of the academic profession
- 14- Managing a research team
- 15- Problem solving and decision making
- 16- Data management and statistics
- 17- Lesson Planning
- 18- Effective teaching
- 19- Credit hour systems and academic mentoring
- 20- Change management

II- Certified from DAAD Cairo (German Academic exchange service):

Business plan development for academics

III- Certified from Information and communication technology project ICTP:

Statistical analysis using SPSS

IV- Familiarization and operation of Agilent HPLC model 1200 and chemstation software, Agilent Company, Egypt (2010).

IV- Higher education funding opportunities in the Arab region, organized by Library of Alexandria (2012).

V- Novartis Pharmaceutical Company, Quality Assurance Department (2002).

VI- Teaching Excellence in Pharmacy Education program (2020).

18- Membership

- 1- Egyptian Syndicate of Pharmacists
- 2- United Kingdom and Ireland Controlled release society (UKICRS)
- 3- The Italo-Latin American Asian African Society of Ethnomedicine (SILAE)
- 4- International Liposome Society
- 5- European Science Foundation
- 6- Egyptian responsible conduct of research RCR society
- 7- Egyptian Pharmaceutical Society
- 8- International Association of Advanced Materials (IAAM)
- 9- Global young academy (GYA)
- 10- TWAS Arab regional office
- 11- TWAS young affiliates network (TYAN)
- 12- Next Einstein Forum (NEF)
- 13- Arab-German Young academy of Sciences and Humanities (AGYA)
- 14- African academy of sciences (AAS)
- 15- The society for the advancement of science in Africa (SASA)
- 16- The controlled release society (CRS)
- 17- Egyptian young academy of sciences (EYAS)
- 18- International Network for Government Science Advice (INGSA)
- 19- Member of the Organization of Women in Developing Countries (OWSD)
- 20- Arab Pharmacists Union
- 21- International Science Council (ISC) science communication (Scicomm) network
- 22- STEM Women Global Network

19- Skills

1- Languages:

- Arabic: Mother tongue.
- English: Excellent Written and spoken (International Toefl score 118/120).
- French: Very Good Written and spoken

2- Computer Skills: WinWord, Excel, PowerPoint, Internet and mailing (ICDL certified).

3- Personal Skills: Excellent presentation skills, effective working individually or as a part of a team, gain Experience and skills quickly, utilization of interactive teaching; datashow; powerpoint presentation; seminars and workshops.

20- Research Interests

Advanced drug delivery technology, formulation, biodegradable particulate systems, biomaterials, nanotechnology, pharmaceutical bioinformatics, tissue engineering, pulmonary delivery, topical drug delivery, vesicular delivery systems, cosmetic product development, intra-articular delivery systems, ocular delivery systems, transdermal drug delivery, dendrimers, lipid-based delivery systems, vaccines, colon targeting, cancer targeted delivery systems, photodynamic therapy, cosmeceuticals, protein delivery, nanocomposites.