

**CURRICULUM VITAE**○ **PERSONAL INFORMATION**

**Name** Nermin El-Sayed Ali Eleraky

**Gender** Female.

**Date of birth** July/1/1984.

**Place of birth** El Mansora- Egypt

**Citizenship** Egyptian.

**Marital status** Married.

**Last Degree** PhD

**E-mail address** [Nermineleraky@pharm.aun.edu.eg](mailto:Nermineleraky@pharm.aun.edu.eg)  
[normaceutics@yahoo.com](mailto:normaceutics@yahoo.com)

**Address** Department of Pharmaceutics, Faculty of Pharmacy, Assiut University, 71526 Assiut, Egypt.

**Telephone** **Cellular:** +2-01014017239

**Work:** +2-088-2411866.

**Languages** Arabic: mother language.

English: Excellent

French: Fair

**Computer skills** ICDL (International Computer Driving Licenses) certificate.

**\* Current position:** - Associate Professor, Pharmaceutics Dept., Faculty of Pharmacy, Assiut University, Assiut, Egypt.

## ○ Qualifications

### • GRADUATION

#### ▪ **July 2006**

Bachelor of Pharmaceutical Sciences, Faculty of Pharmacy, Assiut University, Assiut, Egypt; Excellent with Honor degree (the 5<sup>th</sup> on the class).

### • PREMASTER COURSES:

Course	Grade
Instrumental analysis	Excellent
Molecular Biology	Excellent
Chemical Kinetics	Excellent
Laboratory Safety	Very good
Statistics	Excellent
Computer	Excellent
Kinetic principles in dosage forms design	Excellent
Advanced drug delivery systems	Excellent
Pharmaceutical formulation technology	Excellent

### • POSTGRADUATE STUDIES

#### ▪ MASTER THESIS

- **October 2011** M.Sc. degree in Pharmaceutical Science (Pharmaceutics), Faculty of Pharmacy, Assiut University, Assiut (Egypt).
- Master thesis entitled: *"Enhancement of Domperidone Efficacy by Development of Different Formulations"*.
- This master thesis has been classified into two parts:

**Part- I:** Improvement of solubility and dissolution of domperidone via solid dispersion, melt granulation and liquisolid compact techniques.

**Part- II:**

**Chapter 1:** Formulation and evaluation of domperidone rectal suppositories

**Chapter 2:** Comparative bioavailability studies of domperidone suppositories in rabbits.

- **PhD:** PhD fellowship program (University of Cincinnati, James L. Winkle College of Pharmacy, Cincinnati, Ohio, USA).

- December 2016 Degree of Doctor of Philosophy in Pharmaceutical Sciences (Pharmaceutics), Faculty of Pharmacy, Assiut University.

- PhD thesis entitled "Therapeutic Efficacy of Oral Heparin"

- The work of this thesis was divided into three main parts:

- I- Synthesis of electrostatically stabilized association complexes of LMWH with different cationic surface-active agents.

- II- Formulation of PLGA nanoparticles loaded complex.

- III- Transport studies of LMWH/CTAB PLGA nanoparticles across Caco-2 Cell Monolayers (In-vitro Cell culture study).

- **RESEARCH INTERESTS**

- 1- Innovative Drug Delivery Strategies.

- 2- Pharmaceutical Formulations.

- 3- Pharmaceutical Nanotechnology and Nanomedicine.

- 4- Cancer therapy.

○ **Occupations:**

**Jan 2007-Nov 2011:** Demonstrator- Department of Pharmaceutics, Faculty of Pharmacy, Assiut University, Assiut, Egypt.

**Teaching and training responsibilities:**

- Responsible for teaching and evaluation of the practical part of Pharmaceutics courses for first, second, third-, and fourth-year's undergraduate students at Faculty of Pharmacy - Assiut University.
- Responsible for teaching and evaluation of the practical part of the following courses, for the Clinical Pharmacy program students:
  - Physical pharmacy
  - Hospital pharmacy
- Trainer for undergraduate and postgraduate students on the role of the pharmacist in drug information handling (During the workshops held periodically in the pharmaceutics department).
- Trainer for postgraduate students on the importance of the clinical pharmacist in hospital (During the workshops held periodically in the pharmaceutics department)

**Studying and research:**

- Studying the premaster courses required to get the master's degree.
- Conducting and research the practical part of the master thesis.

**Dec 2011-Dec 2016:** Assistant Lecturer- Department of Pharmaceutics, Faculty of Pharmacy, Assiut University, Assiut, Egypt.

**Teaching and training responsibilities:**

- Member of Quality Control Unit for preparing the faculty of pharmacy, Assiut University for the acceptance in Quality Assurance Project.
- Responsible for teaching and evaluation of the practical part of Pharmaceutics courses for first, second, third-, and fourth-year's undergraduate students at Faculty of Pharmacy - Assiut University.

- Responsible for teaching and evaluation of the practical part for the clinical pharmacy courses, for the Clinical Pharmacy program students:

**Studying and research:**

- Studying the required courses to get the PhD degree.
- Conducting and research the practical part of the PhD thesis.

**Dec 2013-Feb 2016:** PhD research fellow at Biopharmaceutics and Pharmacokinetics department, University of Cincinnati, James L. Winkle College of Pharmacy, Cincinnati, Ohio, USA.

Employer: Dr. Giovanni M. Pauletti, PhD. (Associate Professor of Biopharmaceutics and Pharmacokinetics), University of Cincinnati, Ohio, USA.

**Main activities and responsibilities:**

- Performing the practical part of PhD thesis.
- Learning new technical skills on nanotechnology field.
- Training on in vitro cell experiments studies.
- Getting a license certificate from University of Cincinnati Radiation Safety Office for completion of Site-Specific Radiation Safety Training to become a RAM radiation worker.
- Participating in international conferences.

**Jan 2017-March 2022:** Lecturer- Department of Pharmaceutics, Faculty of Pharmacy, Assiut University, Assiut, Egypt.

**March 2022-present:** Assistant Professor- Department of Pharmaceutics, Faculty of Pharmacy, Assiut University, Assiut, Egypt.

**Main activities and responsibilities:**

- Administration and implementation team member in the project “Rectal dexmedetomidine niosomes for postoperative analgesia in pediatric cancer patients”- Faculty of Pharmacy, Graduate Studies & Research sector.
- Academic Advisor for undergraduate students for the enrolment into clinical pharmacy courses and Pharm D courses.

- Development of new courses for postgraduates, preparation of courses specifications and ILO's, Quality control unit, Quality Assurance Project.
  - Clinical application of gene-based therapeutics course.
  - Polymers in pharmaceutical formulations course.
  - Introduction in nanopharmaceuticals
- External evaluator of pharmaceutics courses, Faculty of pharmacy, Beni-suef university, Egypt (2018-2019).
  - Supervisor for master students:
    - 1- Sara Ibraheem Abd-El hafeez, Master thesis entitled "Development and evaluation of sustained release metformin hydrochloride formulations".
    - 2- Reem Yassin Abd El-kereem, master's degree.
    - 3- Ahmed Taha Abd-El rehem, master's degree.
    - 4- Rana Mohamed Fathy, master's degree.
    - 5- Esraa Hassan Mohamed, master's degree.
- Reviewer in journal of "Frontiers in cell and developmental biology", "International Journal of Nanomedicine", "Drug Development and Industrial Pharmacy", "Biomed Research International".
- Preparation of physical pharmacy, dosage forms, pharmaceutical legislation study notes for second year students.
- Preparation of Pharmaceutics 3 and Pharmaceutics 4 study notes for third year pharm D students.

### **Teaching Experiences**

- Teaching lectures of the following Pharmaceutics courses for first, second, third- and fourth-year's undergraduate students and clinical pharmacy students at Faculty of Pharmacy - Assiut University.
  - Teaching the "Physical pharmacy" course for 2<sup>nd</sup> year, undergraduate pharmacy students, Assiut University.

- Teaching the “Dosage forms” course for 2<sup>nd</sup> year, undergraduate pharmacy students, Assiut University.
- Teaching the “Dosage forms-1” course for semester 4, undergraduate clinical pharmacy students, Assiut University.
- Teaching the “Radiopharmacy” course for semester 7, undergraduate clinical pharmacy students, Assiut University.
- Teaching the “Pharmaceutical legislation” course for 2<sup>nd</sup> year, undergraduate pharmacy students, and semester 2, undergraduate clinical pharmacy students, Assiut University.
- Teaching the “Biopharmaceutics and Pharmacokinetics” course for semester 6, undergraduate clinical pharmacy students, Assiut University.
- Responsible for teaching new “Pharmaceutics 3 and Pharmaceutics 4” courses for 3<sup>rd</sup> year Pharm D, undergraduate pharmacy students, Assiut University, in the upcoming academic year 2021-2022.
- Teaching the “Pharmacokinetics and Biopharmaceutics” course for postgraduate industrial pharmacy diploma students, Assiut University.
- Preparation and evaluation of written and oral exams.
- Control works, and grades evaluations for undergraduate and post graduate exams.

#### ○ **CONFERENCES and WORKSHOPS**

- **July 2006;** Workshop on *"Clinical Pharmacy and First Aid "*, Assiut University.
- **March 2008;** Assiut University 6<sup>th</sup> Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut (*participant and organizer*).
- **July 2008;** Workshop on *"Clinical Pharmacy and First Aid"*, Department of Pharmaceutics, Faculty of Pharmacy, Assiut University, Assiut. (*Training Staff*)

- **March 2010;** Assiut University 7<sup>th</sup> Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut (*participant and organizer*).
- **March 2011;** Assiut University 8<sup>th</sup> Pharmaceutical Science Conference, Faculty of Pharmacy, Assiut (*Poster: E. H. Ibrahim, T. H. El-Faham, F.A. Mohammed, and N. S. El-Eraky, Formulation, in-vitro release and bioavailability study of domperidone rectal suppositories*).
- **October 2015;** 29<sup>th</sup> Annual Meeting of the AAPS, Orlando, FL, USA (*Poster: Nermin E. Eleraky, Dina F. Mohamed, Mohamed A. Attia, and Giovanni M. Pauletti, Thermodynamic Analysis of the Interaction between Low Molecular Weight Heparin and Cetyltrimethylammonium Bromide*).
- **November 2016;** 30<sup>th</sup> Annual Meeting of the AAPS, Denver, CO, USA (*Poster: Nermin E. Eleraky, Nitin K. Swarnakar, Dina F. Mohamed, Mohamed A. Attia & Giovanni M. Pauletti, Permeation-enhancing Nanoparticle Formulation to Enable Oral Absorption of Enoxaparin*).
- **April 2018;** Assiut University 11<sup>th</sup> Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut university.
- **April 2018;** 1<sup>st</sup> Annual Scientific Conference of Assiut University Hospital Pharmacists.
- **April 2018;** International conference (Recent trends in pharmaceutical sciences), faculty of pharmacy, Egyptian Russian university.
- **February 2019 Workshop:** Comet assay principles & applications, The molecular biology research unit, Assiut university.
- **March 2019;** 2<sup>nd</sup> Annual Scientific Conference of Assiut University Hospital Pharmacists in collaboration with South Egypt Cancer Institute.
- **October 2019 Workshop:** Recent advanced techniques for general analysis and green technology, Drug research center, Assiut university.
- **June 2020 Workshop:** " High Performance Liquid Chromatography (HPLC) ", Nawah Scientific, Cairo, Egypt.



- **September 2020;** Egyptian Knowledge Bank, Strategies for Writing Successful Grant Applications.
- **September 2020;** Egyptian Knowledge Bank, Using research metrics and indicators effectively in grant proposals.  
**September 2020;** Virtual Vancouver nanomedicine day, University of British Columbia, British Columbia, Vancouver, Canada (*Poster:* Sara I. Abd-El Hafeez, **Nermin E. Eleraky**, Sara A. Abouelmagd, Ehsan Hafez, Modulation of metformin hydrochloride water solubility via hydrophobic ion pairing approach to sustain its release from calcium alginate beads).
- **November 2020;** Assiut University 12<sup>th</sup> International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut (*Poster:* **Nermin E. Eleraky**, Ehsan Hafez, Sara I. Abd-El Hafeez and Sara A. Abouelmagd, Hydrophobic ion pairing as a strategy to improve oral administration of metformin hydrochloride loaded calcium alginate beads).
- **November 2020;** Assiut University 12<sup>th</sup> International Pharmaceutical Sciences Conference, Faculty of Pharmacy, Assiut (*Poster:* Mahmoud M. Omar, Amani M. El Sisi, Omiya Ali Hasan, **Nermin E. Eleraky**, Externally Triggered Novel Rapid-Released Sonosensitive Folate-Modified Liposomes for Gemcitabine: Development and Characteristics).
- **May 2021 Workshop:** “Nano Drug delivery systems: Formulation and Characterization”, Nawah Scientific, Cairo, Egypt.
- **September 2021;** "Health Research Writing Masterclass - Creating A Culture of Evidence' With Dr Ximena Alvira ", Health Research Development Program, Elsevier.
- **September 2021 Workshop:** "Size Exclusion Native Mass Spectrometry for the Characterization of Monoclonal Antibodies (North America)", *eLearning Phenomenex*.
- **September 2021;** 24<sup>th</sup> International Conference and Exhibition on Pharmaceutical Formulations, Rome, Italy (*Poster:* **Nermin E. Eleraky**,

Hesham M. Tawfeek, Mohamed A. El-Mokhtar, Ayat Allam, Ocular Delivery of Itraconazole-loaded Proniosomal Gels for Effective Control of Ocular Keratitis). **Best poster award.**

- **September 2021 Workshop:** “Reversed Phase HPLC Method Development: A Selectivity Perspective (North America)”, *eLearning Phenomenex*.
- **September 2021;** Virtual Vancouver nanomedicine day University of British Columbia, British Columbia, Vancouver, Canada (*Attendance*).
- **September 2021;** 3<sup>rd</sup> international conference and exhibition on Pharmaceutical Nanotechnology and Nanomedicine, London, UK (*Poster: Nermin E. Eleraky, Mahmoud El-Badry, Abeer S. Hassan, Enhancement of vaginal penetration of celecoxib via formulation of chitosan-coated polymeric nanocapsules*).
- **September 2021 Workshop:** “Solutions for vitamin analysis (North America)”, *eLearning Phenomenex*.
- **October 2021;** UKICRS, United Kingdom and Ireland Controlled Release Society (*Poster: Nermin E. Eleraky, Mahmoud El-Badry, Abeer S. Hassan, Chitosan coated polymeric nanocapsules for enhancing the permeation of celecoxib in vaginal tissue*).
- **November 2022;** Assiut University 13th International Pharmaceutical Sciences Conference, Luxor (*Poster: Nermin E. Eleraky, Mahmoud M. Omar, Mahmoud El-Badry, Abeer S. Hassan, Development and evaluation of Curcumin Loaded nano lipid vesicles*).
- **November 2022;** Assiut University 13th International Pharmaceutical Sciences Conference, Luxor (*Poster: Reem Y. Mahran, Nermin E. Eleraky, Ehab A. Fouad, Sozan S. Tous, Investigation study for embedding Metformin into Nanostructured lipid carriers*).

○ **ATTENDANCE PROGRAMS:**

<b>Year</b>	<b>Program</b>
<b>2005</b>	Training in a local community pharmacy (100 hours).
<b>2007</b>	Training course (Teaching with Technology), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2007</b>	Training course (Intellectual skills), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2007</b>	Training course (Effective communication skills), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2007</b>	Training course (Preparation and writing research papers to be published internationally), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2007</b>	Training course (Code of ethics), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2007</b>	Training course (New teaching techniques), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2007</b>	Training course (Teacher Preparation), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2016</b>	Training course (How to compete for a research fund), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2017</b>	Training course (Quality standards in teaching 1), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2017</b>	Training course (Research ethics), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2017</b>	Training course (Strategic planning), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2018</b>	Training course (How to design the E-course), Faculty and

	Leadership Development Center, Assiut University, Egypt.
<b>2018</b>	Training course (How to activate the E-course), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2021</b>	Training course (Word), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2021</b>	Training course (Fundamentals of IT), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2021</b>	Training course (Mobile Applications), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2021</b>	Training course (Preparing the test item for the medical sector within the implementation plan of the national system for electronic exams), Measurement and Assessment Center, Ministry of Higher Education.
<b>2021</b>	Training course (Code of Ethics), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2021</b>	Training course (Publication of Research in International Journals), Faculty and Leadership Development Center, Assiut University, Egypt.
<b>2021</b>	Training course (Quality standards in teaching), Faculty and Leadership Development Center, Assiut University, Egypt.

○ **Membership of Societies and Committees:**

- Egyptian Syndicate of Pharmacists, 2006 to date.
- Syndicate of Pharmacists of Assiut, 2006 to date.

○ **PUBLICATIONS:**

1- **Nermin E. Eleraky**, Mohamed A. Attia, Mohamed A. Safwat, Sertaconazole-PLGA nanoparticles for management of ocular keratitis, Journal of Drug Delivery Science and Technology 95 (2024) 105539 ,

<https://doi.org/10.1016/j.jddst.2024.105539>.

- 2- Mohamed A. Attia, **Nermin E. Eleraky**, Khaled Abdelazeem, Mohamed A. Safwat, Prednisolone loaded-cationic nanoemulsion formulation for uveitis management, Journal of Drug Delivery Science and Technology 92, (2024) 105406, <https://doi.org/10.1016/j.jddst.2024.105406>
- 3- **Nermin E. Eleraky**, Mahmoud El-Badry, Mahmoud M Omar, Wesam M ElKoussi, Noha G Mohamed, Mohamed A Abdel-Lateef & Abeer S Hassan, Curcumin Transfersome-Loaded Thermosensitive Intranasal in situ Gel as Prospective Antiviral Therapy for SARS-Cov-2, International Journal of Nanomedicine 2023:18 5831–5869.
- 4- Ahmed A. H. Abdellatif, Basmah Nasser Aldosari, Amal Al Subaiyel, Aisha Alhaddad, Waad A. Samman, **Nermin E. Eleraky**, Marwa G. Elnaggar, Hassan Barakat and Hesham M. Tawfeek, Transethosomal Gel for the Topical Delivery of Celecoxib: Formulation and Estimation of Skin Cancer Progression, Pharmaceutics 2023, 15, 22. <https://doi.org/10.3390/pharmaceutics15010022>
- 5- Aml I. Mekkawy, **Nermin E. Eleraky**, Ghareb M. Soliman, Mohamed G. Elnaggar and Marwa G. Elnaggar, Combinatorial Therapy of Letrozole- and Quercetin-Loaded Spanlastics for Enhanced Cytotoxicity against MCF-7 Breast Cancer Cells, Pharmaceutics 2022, 14, 1727. <https://doi.org/10.3390/pharmaceutics14081727>(IF: 6.321)
- 6- Sara I.Abd-El Hafeez , **Nermin E. Eleraky** , Ehsan Hafez & Sara A.Abouelmagd, Design and optimization of metformin hydrophobic ion pairs for efficient encapsulation in polymeric drug carriers, Scientific Reports (2022) 12:5737, <https://doi.org/10.1038/s41598-022-09384-6> (IF: 4.38)
- 7- Ayat A. Allam, **Nermin E. Eleraky**, Nadeen H. Diab, Mahmoud Elsabahy, Sahar A. Mohamed, Hala S. Abdel-Ghaffar, Nivin A. Hassan, Samia A. Shouman, Mervat M. Omran, Sahar B. Hassan, and Noura G. Eissa, Development of Sedative

Dexmedetomidine Sublingual In Situ Gels: In Vitro and In Vivo Evaluations, *Pharmaceutics* 2022, 14, 220. <https://doi.org/10.3390/pharmaceutics14020220> (IF: 6.321)

8- Ayat Allam, Mahmoud Elsabahy, Mahmoud El Badry, **Nermin E. Eleraky**, Betaxolol-loaded niosomes integrated within pH-sensitive in situ forming gel for management of glaucoma, *International Journal of Pharmaceutics* 2021:598:120380, 1-11, <https://doi.org/10.1016/j.ijpharm.2021.120380>. (IF: 5.875)

9- Mahmoud M Omar, Omiya Ali Hasan, Randa Mohammed Zaki, and **Nermin E. Eleraky**, Externally triggered novel rapid-released sonosensitive folate-modified liposomes for gemcitabine: Development and characteristics, *International Journal of Nanomedicine* 2021:16, 683–700, [doi: 10.2147/IJN.S266676](https://doi.org/10.2147/IJN.S266676). (IF: 6.400)

10- Mohamed A. Safwat, Bothaina A. Kandil, Mohamed A. Elblbesy, Ghareb M. Soliman, and **Nermin E. Eleraky**, Epigallocatechin-3-Gallate-Loaded Gold Nanoparticles: Preparation and Evaluation of Anticancer Efficacy in Ehrlich Tumor-Bearing Mice, *Pharmaceutics* 2020, 13 (9): 254, 1-20; [doi:10.3390/ph13090254](https://doi.org/10.3390/ph13090254). (IF: 5.863)

11- **Nermin E. Eleraky**, Mahmoud M. Omar, Hemat A. Mahmoud and Heba A. Abou-Taleb, Nanostructured Lipid Carriers to Mediate Brain Delivery of Temazepam: Design and in Vivo Study, *Pharmaceutics* 2020, 12 (5): 451, 1-28; <https://doi.org/10.3390/pharmaceutics12050451>. (IF: 6.321)

12- **Nermin E. Eleraky**, Ayat Allam, Sahar B. Hassan and Mahmoud M. Omar, Nanomedicine Fight against Antibacterial Resistance: An Overview of the Recent Pharmaceutical Innovations, *Pharmaceutics* 2020, 12 (2):142, 1-51; <https://doi.org/10.3390/pharmaceutics12020142>. (IF: 6.321)

13- **Nermin E. Eleraky**, Nitin K. Swarnakar, Dina F. Mohamed, Mohamed A. Attia & Giovanni M. Pauletti, Permeation-Enhancing Nanoparticle Formulation to Enable Oral Absorption of Enoxaparin, *AAPS PharmSciTech* volume 21, 88, 1-11, (2020), <https://doi.org/10.1208/s12249-020-1618-2>. (IF: 2.401)

- 14- **Nermin E. Eleraky**; Gihan Fetih; Mahmoud El-Badry, PERFORMANCE OF QUERCETIN-CHITOSAN GELS AS TOPICAL DELIVERY SYSTEMS, Bulletin of Pharmaceutical Sciences. Assiut, Article 8, Volume 42, Issue 1, 2019, Page 71-79, [DOI: 10.21608/bfsa.2019.62273](https://doi.org/10.21608/bfsa.2019.62273).
- 15- **Nermin E. Eleraky**, Dina F. Mohamed, Mohamed A. Attia, and Giovanni M. Pauletti, Hydrophobic Ion-Pairing of Low Molecular Weight Heparin with Cetyltrimethylammonium Bromide, International Journal of Pharma Sciences and Research (IJPSR), 2015; Vol 6 (3), 558-565.
- 16- EH Ibrahim, TH El-Faham, FA Mohammed, **NS El-Eraky**, Formulation, in-vitro release and bioavailability study of domperidone rectal suppositories, Int J Innovations Pharm Sci, 2012; Vol 1 (1), 8-14.
- 17- E. H. Ibrahim, T. H. El-Faham, F.A. Mohammed, and **N. S. El-Eraky**, Enhancement of solubility and dissolution rate of domperidone by utilizing different techniques, Bull. Pharm. Sci., Assiut Univ., 2011; 34 (2), p. 105-120.