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SCOPUS H-index: 31, Total citations: 2472  
Google Scholar H-index: 34, i-index: 56, Total citations: 3123  
<https://www.scopus.com/authid/detail.uri?authorId=15730942800>  
<https://scholar.google.com/citations?user=SLL2YuIAAAAJ&hl=en&oi=ao>

## **Education**

Post doctorate scholarship, Department of Chemistry and Materials Science Institute, Lancaster University, Lancaster, UK (2016).

Post doctorate scholarship, Leiden/Amsterdam Center for Drug Research, Leiden University, The Netherlands (2013).

Ph.D. of Pharmaceutical Sciences, Department of Pharmaceutics, Faculty of Pharmacy, Ain Shams University (2010) (Channel student – Spent two years at the department of Pharmacy and Pharmacology, University of Bath, Bath, UK).

Master of Pharmaceutical Sciences, Department of Pharmaceutics, Faculty of Pharmacy, Ain Shams University (2006).

Bachelor of Pharmacy, Faculty of Pharmacy, Ain Shams University, class of May 2000.  
Grade: Excellent with honor.

Secondary certificate from K.I.S. Language school.

## **Other Educational Activities**

Pharmaceutical Bioinformatics certificate from the Department of Pharmaceutical Biosciences, Uppsala University, Sweden (Grade: Pass with Distinction (The highest grade) 2011).

## **Grants and Awards**

**1- The Egyptian government “State Excellence award in Advanced Technological Sciences” – awarded from the Egyptian Ministry of Higher Education and Academy of Scientific Research and Technology - 2021 (granted in 2022).**

جائزة الدولة للتفوق في العلوم التكنولوجية المتقدمة عن العام 2021

**2- Finalist at the Study UK alumni awards and awarded an honouring certificate being one of the top three British Universities Alumni in Egypt in Science and sustainability 2021-2022 – awarded from the British embassy and British Council in Egypt (February**

2022).

3- Selected by Women of Egypt Organization sponsored by L'Oreal – Paris as one of the top distinguished 100 women in Egypt and Hall of Fame in the Science field (2022).

4- Listed among the top 2% of scientists world-wide in 2020 according to Stanford University and the Elsevier publisher updated science-wide author databases of standardized citation indicators published in 2021 based on SCOPUS database.

5- The Egyptian government “State incentive award for medical sciences (Advanced Technological Sciences)” – awarded from the Egyptian Ministry of Higher Education and Academy of Scientific Research and Technology - 2014 (granted in 2015).

جائزة الدولة التشجيعية في العلوم التكنولوجية التي تخدم المجالات الطبية عن العام 2014

6- State award of institutions and individuals in the field of cancer treatment- awarded from the Egyptian Ministry of Higher Education and Academy of Scientific Research and Technology - (for the year 2020 – granted 2021)

جائزة الدولة للهيئات و الأفراد عن العام 2020 و تم منحها 2021 في مجال الأورام السرطانية (جائزة أ.د. شوقي الحداد)

7- Professor Dr. Sediq Afifi prize in Scientific Research, Innovation and Arts (Informatics and Artificial Intelligence field (2021).

جائزة أ.د. صديق عفيفي (عميد أكاديمية طبية للعلوم و عضو مجلس أمناء جامعة مينريت) للبحث العلمي و الابتكار و الأدب في مجال المعلوماتية و الذكاء الاصطناعي 2021

8- 2020 Obada International prize – awarded from Natural Sciences Publishers and African academy of Sciences 2020.

جائزة عبادة الدولية لأفضل عرض 2020

9- Listed among the top 2% of scientists world-wide in 2019 according to Stanford University USA and Elsevier publisher updated science-wide author databases of standardized citation indicators published in PLOS Biology and based on Mendeley <https://journals.plos.org/plosbiology/article?id=10.1371/journal.pbio.3000918>

10- State award of institutions and individuals in the field of medicine and medical products - awarded from the Egyptian Ministry of Higher Education and Academy of Scientific Research and Technology - (for the year 2017 – awarded 2018)

جائزة الدولة للهيئات و الأفراد عن العام 2017 في مجال الدواء و المستحضرات الطبية (جائزة أ.د. عبده سلام)

11- State award for institutions and individuals in the medical genetics field - awarded from the Egyptian Ministry of Higher Education and Academy of Scientific Research and Technology -(for the year 2016 – awarded 2017)

جائزة الدولة للهيئات و الأفراد عن العام 2016 في مجال الوراثة الطبية (جائزة أ.د. إكرام عبد السلام)

12- Awarded the State Excellence Accolade (Medal) of the first class from the Egyptian High presidency at 2017 Science Festival held on the 6<sup>th</sup> of August, 2017, Al-Massah-Cairo – Egypt.

نوط الإمتياز من الطبقة الأولى للتميز العلمي – أغسطس 2017

**13- Honouring for the best presentation in the Frontiers Meetings Ltd, Scientific Organization and Journal of Frontiers in Cancer Research and Therapeutics for the phenomenal and worthy presentation on the “Global Experts Meeting on Frontiers in Breast Cancer and Therapy” – London – UK (July 2019).**

أفضل عرض لبحث بمؤتمر تم تنظيمه عن طريق مؤسسة  
Frontiers Meetings Ltd – London - UK - 2019

**14- Has an article selected by the ACS (American Chemical Society) as one of the best articles in Africa-2020 and to be featured in its special Virtual Issue “Chemistry in Africa: Open & Global” (<https://pubs.acs.org/page/acsodf/vi/chemistry-in-africa>). ACS was honored that this Virtual Issue was led by a guest-editorial co-written by Elizabeth Marincola, Senior Advisor for Communications and Advocacy at the African Academy of Sciences, and Thomas Kariuki, Director of programs at the African Academy of Sciences. Both are well-renowned advocates for African research and Open Science. The Virtual Issue showcased a topically diverse collection of high-quality work that spanned the Continent. It provided a glimpse of the richness of African-based research in chemistry and interfacing areas of science. The selected article is entitled: “Prediction of Drug Loading in the Gelatin Matrix Using Computational Methods” <https://pubs.acs.org/doi/10.1021/acsomega.9b03487>.**

**15- Selected as the outstanding editorial board member and to be featured on the cover of World Journal of Clinical Oncology (WJCO)-2020, Baishideng Publishing Group Inc., USA.**

**16- Early Scientists career grant from the Department of Chemistry and Materials Science Institute – Lancaster University – UK to spend 1 month as a visiting scientist in the department learning about “conducting polymer-based materials for drug delivery” – August 2016.**

منحة و جائزة جامعة لانكستر بإنجلترا لقضاء شهر كعالم زائر و المشاركة في مشروع علمي

**17- Elsevier and ScienceDirect honouring certificate for one of the most downloaded articles in the European Journal of Pharmaceutical Sciences (hottest article).**

شهادة تقدير من مؤسسة إلسيفير للنشر العلمي (هولندا) لأحد الأبحاث الأكثر تحميلا (2011)

**18- Wiley certificate honouring the top downloaded article in the Journal of Pharmacy and Pharmacology for the years 2017-2018.**

شهادة تقدير من مؤسسة وايلي للنشر العلمي (المملكة المتحدة) لأحد الأبحاث الأكثر تحميلا (2018-2017)

**19- Misr ElKheir foundation prize for the best research in 2012 (granted in 2014) for the research:**

**Applications of NMR in the characterization of pharmaceutical microemulsions.**

جائزة مؤسسة مصر الخير لأفضل بحث علمي 2012

**20- European Science Foundation (ESF) full grant (Conference fees, travel expenses and accommodation) to attend the ESF-Biological surfaces and interfaces conference (30 June – 5 July, 2013) at Sant Feliu de Guixols, Catalonia, Spain and present a short**

talk and a poster entitled:

**“Chitosan nanoparticles production: the end of the debate”**

2013 - جائزة مؤسسة العلوم الأوروبية بفرنسا

**21- Misr Elkheir foundation prize for the best research in 2010 (granted in 2011) for the research:**

**Uptake of microemulsion components into the stratum corneum and their molecular effects on skin barrier function.**

جائزة مؤسسة مصر الخير لأفضل بحث علمي 2010

**22- Misr Elkheir foundation grant to attend an international conference (2012).**

جائزة مؤسسة مصر الخير لحضور مؤتمر علمي 2012

**23- EIPICO Pharmaceutical Company award for the “Best Topic” of the graduation projects - Drug Design Program – Faculty of Pharmacy – Ain Shams University for the academic year 2017-2018. The project was entitled “ Gelatinized-core liposomes: A Trojan horse for the development of a novel glaucoma medication”.**

جائزة شركة إيبيكو لأحسن موضوع مشروع تخرج (2018-2017)

**24- INNOVINC Foundation (USA) grant (Full accommodation expenses and partial conference fees) to attend the 2<sup>nd</sup> International Conference on Material Science and Nanotechnology (15-17 July, 2019) at Park Inn by Radisson Hotel and Conference Centre, Heathrow, London, UK to present a keynote speech entitled:**

**“ Engineering nanocarriers for the efficient combating of cancer”**

منحة مؤسسة إنوفينك بالولايات المتحدة الأمريكية للسفر إلى إنجلترا وإلقاء محاضرة بمؤتمر علمي - 2019

**25- Has a publication:**

**“ Exploring the use of nanocarrier systems to deliver the magical molecule; Curcumin and its derivatives” J Control Release. 2016 Mar 10; 225:1-30.**

That was honoured as one of the top 1% highly cited threshold papers in the field of Pharmacology and Pharmacy world-wide according to Clarivate Analytics Web of Science

Number 1 regarding highly cited threshold and regarding usage count in Ain Shams University- Pharmacology & Pharmacy field

Number 1 regarding highly cited threshold and regarding usage count in Ain Shams University- Chemistry (Multidisciplinary)

Number 3 highly cited threshold in all fields and in the whole universities and institutes in Egypt for the years (2014-2019).

**26- Also has a paper that was extracted from her master thesis:**

**“ Preparation and evaluation of reverse-phase evaporation and multilamellar niosomes as ophthalmic carriers of acetazolamide” Int J Pharm. 2005 Dec 8;306(1-2):71-82.**

According to Clarivate Analytics and Web of Science is considered number one or the top times cited paper in Ain Shams University - Pharmacology and Pharmacy field

**27- Supervised a thesis that won the Best British University in Egypt (BUE) Masters prize (2017-2018). The title of the prize: “Preparation and evaluation of colloidal**

systems of an anticancer drug for transdermal delivery”.

الإشراف علي أفضل رسالة ماجستير بالجامعة البريطانية (2017-2018)

**28- MINAPHARM Pharmaceutical Company award for supervising the “Best Topic” of the graduation projects - Drug Design Program – Faculty of Pharmacy – Ain Shams University for the academic year 2018-2019. The project was entitled “A potential cancer dual therapy using nano-sized penetration enhancing vesicles: A double impact weapon added to the arsenal”.**

جائزة شركة مينا فارم لأحسن موضوع مشروع تخرج (2018-2019)

**29-**

درع كلية الحاسبات و المعلومات جامعة عين شمس للمساهمة في برنامج

**Erasmus Heal+ for Health care Informatics**

كمنحه من الإتحاد الأوروبي 2019

**30- Ain Shams University award to attend the 45<sup>th</sup> controlled release annual meeting and exhibition that was held in New York– USA (July 2018).**

**31- Missions governmental award for a 6-months fully funded post-doctoral fellowship at Leiden/Amsterdam Centre of Drug Research (LACDR) – 2013.**

**32- Ain Shams University award to attend the 42<sup>nd</sup> controlled release annual meeting and exhibition that was held in Edinburgh – Scotland (July 2015).**

33- Supervised a research that was awarded the 6<sup>th</sup> prize out of 74 oral presentations at the 3<sup>rd</sup> Medical Integrated Students Research Conference (MISR) that was held at Faculty of Medicine – Ain Shams University – Cairo – Egypt.

34- Best Topic of the graduation projects - Drug Design Program – Faculty of Pharmacy – Ain Shams University for the academic year 2016-2017. The project was entitled “ Photo-thermal Chemo-combined therapy using Electrochemical Polymerization: Hitting two birds with the same stone”.

35- Best Oral presentation of the graduation projects - Drug Design Program – Faculty of Pharmacy – Ain Shams University for the academic year 2016-2017. The project was entitled “ Photo-thermal Chemo-combined therapy using Electrochemical Polymerization: Hitting two birds with the same stone”.

36- Certificate of appreciation due to high score in teaching from the Drug Design Program – Faculty of Pharmacy- Ain Shams for the academic year 2015-2016.

37- Certificate of appreciation due to high score in teaching from the Drug Design Program – Faculty of Pharmacy- Ain Shams for the academic year 2015-2016.

38- Best Project certificate from the Drug Design Program – Faculty of Pharmacy – Ain Shams University for the project entitled: Modeling drug loading in PLGA nanoparticles using docking experiments and Gaussian Processes (2016).

39- Appreciation certificate from Quality assurance unit and the dean of Faculty of

Pharmacy – Ain Shams University for scoring the highest grades in teaching with respect to a mainstream course (Pharmaceutics second year – First semester – academic year 2015-2016).

40- Most cited researcher – Faculty of Pharmacy – Ain Shams University – January 2016 and January 2021.

41- Future University in Egypt (FUE) prize for best invited speakers in the 3<sup>rd</sup> international FUE conference (February 9-11, 2015, Cairo, Egypt).

42- Awarded a special honoring from Faculty of Computer and Information Sciences for the best practical course (Applications in Biotechnology) for two years (2012-2014).

**43- One of the CV owner publications: “Microemulsion formulations for the transdermal delivery of testosterone,” was awarded the rank of the 10<sup>th</sup> top hottest articles (April to June 2010) and 17<sup>th</sup> for the period (July to September 2010) in the European Journal of Pharmaceutical Sciences.**

44- European Science Foundation (ESF) grant to attend the ESF-UB Conference in Biomedicine: Nanomedicine: Reality Now and Soon, 23-28 October 2010 • Sant Feliu, Spain.

**45- Ain Shams University International Publication Awards (Jan 2011-July 2011- Jan 2012- July 2012- Jan 2013- July 2013 ).**

**46- Awarded a certificate of appreciation from Faculty of Pharmacy – Ain Shams University for implementing the software “Inmaa” for the electronic handling of the students affairs and their results control.**

47- Several certificates of appreciation and merits from the Quality assurance accreditation unit, Faculty of Pharmacy, Ain Shams University for the excellence in teaching of the courses: Pharmacy orientation – Pharmaceutics first year - Physical Pharmacy – Pharmaceutics second year, from the years (2010-2019).

48- Certificate of Outstanding Contribution in Reviewing (Top 10% percentile) – *Chemical Engineering Research and Design (ChERD)* journal – Elsevier – The Netherlands.

49- Certificate of Outstanding Contribution in Reviewing (Top 10 % percentile) – *Phytomedicine* journal – Elsevier – The Netherlands.

50- شهادة تقدير من وحدة توكيد و ضمان الجودة من الكليه عن القيام بأعمال الجودة ببرنامج التصميم الدوائي – كلية الصيدلة جامعة عين شمس – 2017

51- شهادة تقدير من وحدة توكيد و ضمان الجودة من كلية الصيدلة – جامعة عين شمس للتميز في تدريس مقررات:  
1- صيدلانيات الفرقة الثانيه 2019  
2- أساليب التصنيع الدوائي الجيد  
GMP - 2019

52- شهادة تقدير و تكريم من جامعة عين شمس عن النشر الدولي المتميز عن عدة دورات للنشر الدولي

53- شهادة تقدير و تكريم من قطاع خدمة المجتمع وتنمية البيئة بجامعة عين شمس في مجال البحوث التطبيقية المستخرجه من مشاريع ممولة من القطاع

54- Supervised a thesis which won Prof. Dr. Abdel-Hamid prize awarded from Faculty of Pharmacy – Ain Shams University (2021) for the best PhD thesis presentation.

55- Supervised a thesis which won Prof. Dr. Abdel-Hamid prize awarded from Faculty of Pharmacy – Ain Shams University (2021) for the best MSc. thesis graphical abstract.

56- Best abstract presentation award at 17th International Conference of the National Biochemistry & Molecular Biology Committee – Egypt (14<sup>th</sup> – 15<sup>th</sup> September, 2021).

57- Won the best oral presentation award from **the 14<sup>th</sup> International Society of Phytocosmetic Science** – held virtually and onsite in collaboration with Fayoum University, Fayoum, Egypt (10-12 May, 2022).

58 – The main supervisor of the best master thesis that won Prof. Dr. Ahmed Shawky Geneidi prize for the best M.Sc. thesis in the department of Pharmaceutics and Industrial Pharmacy – Faculty of Pharmacy – Ain Shams University (2021-2022).

59- Ain Shams INNOVATES Award – 2022 (Second Place) for the scientific idea: Protein-based nanocarriers for breast cancer targeting

جائزة جامعة عين شمس تبتكر 2022 (المركز الثاني) – مسار الباحثين – القطاع الطبي

## **1. Work Experience**

Head of Department of Pharmaceutics and Industrial Pharmacy – Faculty of Pharmacy – Ain Shams University – Cairo – Egypt (6<sup>th</sup> of June 2021 – till current).

Professor - Department of Pharmaceutics and Industrial Pharmacy – Faculty of Pharmacy – Ain Shams University – Cairo – Egypt (25<sup>th</sup> January 2021 till current).

Member of the Specialized Committee on Registration of Medical Devices - Central Administration for Medical Devices – The Egyptian Drug Authority – Egypt (June 2021 – till current).

لجنة تسجيل المستلزمات الصيدلانية بهيئة الدواء المصرية

Member of the Scientific Assessment Committee of the Innovative Drugs – The Egyptian Drug Authority – Egypt (June 2022 – till current)

لجنة التقييم العلمي التابعة لإدارة الأدوية المبتكرة بهيئة الدواء المصرية

Member of the Higher Council of Research of Ain Shams University ( Dec 2020 till current).

Head of Department (HOD) of Pharmaceutics and Industrial Pharmacy – Faculty of Pharmacy – Ain Shams University – Cairo – Egypt (2<sup>nd</sup> September 2019 – till 1<sup>st</sup> September 2020).

Associate Professor - Department of Pharmaceutics and Industrial Pharmacy – Faculty of Pharmacy – Ain Shams University – Cairo – Egypt (Dec 2015 till current).

Vice-coordinator of the Drug Design Program (DDP) (Credits hours system program) – Faculty of Pharmacy – Ain Shams University (Feb 2015- 2018).

The Drug Design Program (DDP) delegate in the quality assurance and accreditation unit activity (2015- 2018).

Scientific Consultant – Rivapharma – Cairo – Egypt (November 2020 – till current).

Scientific Consultant – Orchidia Pharmaceuticals – Cairo – Egypt (January 2017 – till current).

Collaborative and Visting Scientist – Department of Chemistry and Materials Science Institute – Lancaster University – Lancaster – England – UK (August – September, 2016 till current).

Collaborative and Visiting staff – Leiden Amsterdam Center for Drug Research – Division of Drug Delivery Technology – Leiden University – Leiden – The Netherlands (April 2013 – till current).

Assistant Professor - Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain shams university- Cairo – Egypt (2010- 2015).

Collaborative scientist with the Department of Pharmacy and Pharmacology, Bath University, England, UK (2010 till current).

Part timer Associate Professor at the department of Pharmaceutical Technology – British University in Egypt (BUE) (2016 – till current).

Part timer lecturer at the department of Pharmaceutical Technology - German University in Cairo (GUC) (2011-till current).

Part timer lecturer in Bioinformatics masters credit hours program (Nanobiotechnology) – Faculty of Computer and Information Sciences (CIS) – Ain Shams University – Cairo – Egypt (2015).

Part timer lecturer in Bioinformatics undergraduate credit hours program (Applications of Biotechnology) – Faculty of Computer and Information Sciences (CIS) – Ain Shams University – Cairo – Egypt (2012- till current).



Teaching Masters and PhD courses in Dept of Analytical Chemistry – Faculty of Pharmacy – Ain Shams University.

Head of the library committee of the department of Pharmaceutics and Industrial Pharmacy – Faculty of Pharmacy – Ain Shams University (2010 – till current).

Secretary council – Department of Pharmaceutics and Industrial Pharmacy – Faculty of Pharmacy – Ain Shams University – Cairo – Egypt (January 2016 – November 2016).

Member of the Department of Pharmaceutics and Industrial Pharmacy council – Faculty of Pharmacy – Ain Shams University – Cairo – Egypt (2011- till current).

Member of the academic advising bureau – Faculty of Pharmacy – Ain Shams University – Cairo – Egypt (March 2015 – till current).

Member of the students affairs board – Faculty of Pharmacy- Ain Shams University (2015- till current).

Member of the cultural affairs board – Faculty of Pharmacy – Ain Shams University at the academic year (2013-2014, 2016 – till current).

Member of the examination control offices – Faculty of Pharmacy – Ain Shams University (2010- till current).

Member of the libraries board – Faculty of Pharmacy – Ain Shams University (2016 – till current).

Post Doctoral Research Scientist – Leiden Amsterdam Center for Drug Research – Devision of Drug Delivery Technology – Leiden University – Leiden – The Netherlands (April 2013 – September 2013).

Member of the Financial and Administrative affairs norm – Quality assurance unit – Faculty of Pharmacy – Ain Shams University (2011-2013).

Ex-head of the administrating committee of the IT unit – Faculty of Pharmacy – Ain Shams University.

Representative of the Department of Pharmaceutics and Industrial Pharmacy in the quality assurance and accreditation unit activity (2010- till current).

Head of the students sports committee at the faculty of Pharmacy, Ain Shams University (2010).

PhD researcher at the department of Pharmacy and Pharmacology (2008-2009)  
Bath University, England, UK.

Casual Demonstrator at the Department of Pharmacy and Pharmacology , Bath University, England, UK (2008-2009).

Head of the Egyptian Student Union in Bath (ESUB) – 2009.

Casual worker at the Learning Support Center, Bath University, England, UK (2008-2009).

Casual Invigilator at the Department of Pharmacy and Pharmacology , Bath University, England, UK (2008-2009).

Lecturer assistant in the Department of Pharmaceutics, Faculty of Pharmacy, Ain shams University (2006-2010).

Worked as a demonstrator in Department of Pharmaceutics, Faculty of Pharmacy, AinShams University (2000-2006).

Casual data reviewer in ITWorx Egypt (2000).

Worked in a community pharmacy in Heliopolis for seven months.

Trained in Pfizer Industrial Company (Production department).

Trained in GlaxoWellcome Industrial Company (Production department).

## **2. Teaching Activities**

### **2.1. Teaching Organizations Worked in :**

- 1- Faculty of Pharmacy, Ain Shams University, Egypt.
- 2- Department of Pharmacy and Pharmacology, Faculty of Science, University of Bath, UK.
- 3- Learning Support Center, University of Bath, UK.
- 3- Department of Pharmaceutical Technology, Faculty of Pharmacy and Biotechnology, German University in Cairo (GUC).
- 4- Faculty of Computer and Information Sciences, Ain Shams University.
- 5- British University in Egypt (BUE).

### **2.2. Taught Courses:**

- 1- Pharmacy Orientation
- 2- Pharmaceutics I (Solutions and oral dosage forms)
- 3- Pharmaceutics II (Semi-solid dosage forms, topical and transdermal delivery systems, aerosols and pulmonary delivery).
- 4- Pharmaceutics III (Solid dosage forms: Tablets and Capsules).

- 5- Physical Pharmacy
- 6- Pharmacy Practice
- 7- Professional Pharmacy (Extemporaneous preparations and OTC)
- 8- Pharmacokinetics (PhD)
- 9- Medicines design
- 10- Natural products and metabolism
- 11- Pharmaceutical Technology (Industrial Pharmacy)
- 12- Dosage form Design
- 13- Kinetics and Stability
- 14- Applications of Biotechnology (Undergraduate, Bioinformatics, Computer Science)
- 15- Nanobiotechnology (Masters, Bioinformatics, Computer Science)
- 16- Biopharmaceutics (Undergraduate and masters)
- 17- Experimental Designs (Master and PhD course in Dept of Analytical Chemistry – Faculty of Pharmacy – Ain Shams University).
- 18- Specialized courses (Postgraduate masters and Ph.D. courses, Analytical chemistry department, Faculty of Pharmacy, Ain Shams University).
- 19- Computer Aided Pharmaceutical Technology (Masters Program, Dept. of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University).
- 20- Advanced Biopharmaceutics and Pharmacokinetics (Masters Program, Dept. of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University).
- 21- Computer-Assisted Dosage form Design (CADFD) course – Department of Pharmaceutics and Industrial Pharmacy – Faculty of Pharmacy – British University in Egypt (BUE).
- 22- Industrial Pharmacy II (Elective course) – Department of Pharmaceutics and Industrial Pharmacy – Faculty of Pharmacy – British University in Egypt (BUE).
- 23- Pharmaceutics I (Physical Pharmacy) – Department of Pharmaceutical Technology – Faculty of Pharmacy and Biotechnology – German University in Cairo (GUC).
- 24- Pharmaceutics II (Suppositories and Pulmonary Delivery) – Department of Pharmaceutical Technology – Faculty of Pharmacy and Biotechnology – German University in Cairo (GUC).
- 25- Pharmaceutical Technology I (Reaction Kinetics and Drug Stability) – Department of Pharmaceutical Technology – Faculty of Pharmacy and Biotechnology – German University in Cairo (GUC).
- 26- Pharmaceutical Technology II (Tablets – Advanced Drug Delivery Systems) – Department of Pharmaceutical Technology – Faculty of Pharmacy and Biotechnology – German University in Cairo (GUC).
- 25- Pharmaceutical Technology III (Industrial Pharmacy) – Department of Pharmaceutical Technology – Faculty of Pharmacy and Biotechnology – German University in Cairo (GUC).
- 26- Biopharmaceutics and Pharmacokinetics – Department of Pharmaceutical Technology – Faculty of Pharmacy and Biotechnology – German University in Cairo (GUC).
- 27- Good Manufacturing Practices (GMP) – Faculty of Pharmacy – Ain Shams University
- 28- Quality assurance II – Drug Design Program – Faculty of Pharmacy – Ain Shams University.

### **2.3. Development of e-learning courses:**

- 1- Pharmacy Orientation (B.Sc. Pharmaceutical Sciences – Ain Shams University)
- 2- Pharmaceutics II (Pharm D , Ain Shams University)
- 2- Biopharmaceutics (Post-graduate course)
- 3- Pharmaceutics (B.Sc. Pharmaceutical Sciences – Ain Shams University)
- 4- Pharmaceutics II (Drug Design Program – Ain Shams University)
- 5- Pharmaceutics III (Drug Design Program – Ain Shams University)
- 6- Quality Assurance II (Drug Design Program – Ain Shams University)
- 7- Good Manufacturing Practice (B.Sc. Pharmaceutical Sciences – Ain Shams University)
- 8- Computer –Aided Pharmaceutical Technology (Post-graduate course)
- 9- Computer –Aided Dosage Form Design (Faculty of Pharmacy – British University in Egypt).

#### **2.4. Development of new courses:**

- 1- **Computer-Assisted Dosage form Design (CADFD) course** – Department of Pharmaceutics and Industrial Pharmacy – Faculty of Pharmacy – British University in Egypt (BUE).
- 2- **Industrial Pharmacy II (Elective course)** – Department of Pharmaceutics and Industrial Pharmacy – Faculty of Pharmacy – British University in Egypt (BUE).
- 3- **Computer Aided Pharmaceutical Technology** (Masters Program, Dept. of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University).
- 4- **Applications of Biotechnology** (Undergraduate, Bioinformatics Program, Faculty of Information and Computer Sciences).
- 5- **Nanobiotechnology** (Masters, Bioinformatics Program, Faculty of Information and Computer Sciences).
- 6- Updating the **GMP (Good Manufacturing course)** – Faculty of Pharmacy – Ain shams University
- 7- The founder of the “ **Pharmaceutics for Industry Integrated Module – PIM**” – Faculty of Pharmacy – Ain shams University : weekly seminars and assignments relating the Pharmaceutics skills and knowledge with the Industrial Problems. The module comprises critical thinking – Problems diagnosis and Problem solving.
- 8- **Updating the Quality Assurance II course** – Drug Design Program (DDP) – Faculty of Pharmacy – Ain Shams University including the topic **Quality by Design (QBD)** – Holding

a workshop on Design of Experiments and Experimental Designs (As a scientific activity for the improvement and development of the course content).

9- **Updating the GMP course** – B.Sc. Pharmaceutical Sciences – Faculty of Pharmacy – Ain Shams University including the topic **Quality by Design (QBD) and Data Analysis (Clustering Analysis)** – Holding a workshop on Design of Experiments and Data Analysis (As a scientific activity for the improvement and development of the course content).

## **2.5. Students Scientific Activities:**

Supervised a student activity held at the Department of Pharmaceutics and Industrial Pharmacy entitled: “ **Natural Soap Formulation** ” – 4<sup>th</sup> of October- 2021.

The founder of the “ **Pharmaceutics for Industry Integrated Module – PIM**” – Faculty of Pharmacy – Ain Shams University : weekly seminars and assignments relating the Pharmaceutics skills and knowledge with the Industrial Problems. The module comprises critical thinking – Problems diagnosis and Problem solving (2019-2020).

Supervised a group of students at the 4<sup>th</sup> year (final year) – B.Sc. Pharmaceutical Sciences – Faculty of Pharmacy- Ain Shams University (2019) to publish a paper entitled:  
“ **Alzheimer’s disease and its current treatments; Is there a possibility for a cure?**”  
**Open Journal of Chemistry**, 2019, 5 (1): 013-019.

Referee for the Misr International University (MIU) graduation Projects (14<sup>th</sup> of April – 2019).

Supervisor of a graduation project for the students of Level 5 (2019) - 2018 (Project ranked number 1 amongst 15 projects and won the best topic and the best oral presentation – Publication of the project work).

Supervised the graduation project of students of level 5 – Drug Design Program, Faculty of Pharmacy – Ain Shams University – 2018 (Project ranked number 1 amongst 15 projects and won the best topic and the best oral presentation – Publication of the project work).

Supervised the graduation project of students of level 5 – Drug Design Program, Faculty of Pharmacy – Ain Shams University – 2017 (Project ranked number 1 amongst 15 projects and won the best topic – best oral presentation – second best poster – Publication of the project work).

Supervised the graduation project of students of level 5 – Drug Design Program, Faculty of Pharmacy – Ain Shams University – 2016 (Was one of the top projects amongst 13 projects and won the best oral presentation).

Supervised the summer research training course of the students of the credit hour system (Drug Design Program) in the Department of Pharmaceutics and Industrial Pharmacy – Faculty of Pharmacy - Ain Shams University – Summer 2015.

Supervised students graduation project in department of Pharmaceutics and Industrial Pharmacy – Faculty of Pharmacy – Ain Shams University – 2012 (Published a review article extracted from the project work).

One of the three members of the administrative committee organizing the postgraduate scientific seminars (Purely Science of Pleasure-PSP) – Faculty of Pharmacy – Ain Shams University – 2011 till present.

### **3. Research Activities:**

#### **3.1. List of publications**

##### **3.1.1. Papers :**

\* Corresponding author

# Similar contribution

1- Multi-purpose zein nanoparticles for battling hepatocellular carcinoma: A green approach  
Essraa A. Hassan, **Rania M. Hathout\***, Heba A. Gad, Omaila A. Sammour  
**European Polymer Journal**, 2022, 176, 111396.

2- Augmented in-vitro and in-vivo profiles of brimonidine tartarate using gelatinized-core liposomes  
Engy A. Abdel Azim, Seham A. Elkheshen<sup>#</sup>, **Rania M. Hathout<sup>c\*#</sup>**, Marwa A. Fouly, Nada M. El Huffy  
**International Journal of Nanomedicine**, 2022: 17, 2753-2776.

3- Sesamol loaded albumin nanoparticles: boosted protective properties in animal models of oxidative stress  
Sara Zaher, Mahmoud E. Soliman, Mahmoud Elsabahy, **Rania M. Hathout\***  
**Pharmaceutics**, 2022, 15(6), 733.

4- A holistic review on zein nanoparticles and their use in phytochemicals delivery  
Essraa A. Hassan, **Rania M. Hathout \***, Heba A. Gad, Omaila A. Sammour  
**Journal of Drug Delivery Science and Technology**, 73, 2022, 1034600.

5- Do the polymeric nanoparticles really enhance the bioavailability of oral drugs? A quantitative answer using meta-analysis  
**Rania M. Hathout\***  
**Gels**, 2022, 8(2), 119.

6- Resolving Analytical Challenges in Pharmaceutical Process Monitoring Using Multivariate Analysis Methods: Applications in Process Understanding, Control and Improvement  
Faten Farouk, **Rania M. Hathout** and Ehab F. Elkady  
**Spectroscopy**, Just accepted, 2022.

7- Breaking the Challenge of Polyherbal Quality Control Using UV and HPLC Fingerprints Combined with Multivariate Analysis

Abdulrahman Roshan, **Rania M. Hathout**, Sherweit H. El-Ahmady, Abdel Nasser Singab, Haidy A Gad

**Phytochemical Analysis**, 2022, 33(2), pp. 320–330.

8- Elaborated Survey in The Scope of Nanocarriers Engineering for Boosting Chemotherapy Cytotoxicity: A Meta-Analysis Study

Sally Safwat, **Rania M. Hathout**<sup>\*</sup>, Rania A. Ishak and Nahed D. Mortada

**International Journal of Pharmaceutics**, 610, 2021, 121268.

9- Pharmaceutical manipulation of citrus flavonoids towards improvement of its bioavailability and stability. A mini review and a meta-analysis study

Sahar ElMeligy, **Rania M. Hathout**<sup>\*</sup>, Shaden A. M. Khalifa, Hesham R. El-Seedi, Mohamed A. Farag

**Food Bioscience**, 44 (2021) 101428.

10- In Silico Prediction of siRNA Ionizable-Lipid Nanoparticles in vivo Efficacy: Machine Learning Modeling Based on Formulation and Molecular Descriptors

Abdelkader A Metwally , Amira A Nayel, **Rania M Hathout**

**J Pharm Sci**, Just accepted, 2021.

11- Synchronizing In-silico, In-vitro and In-vivo studies for the successful nose-to-brain delivery of an anti-cancer molecule

Shaymaa A. Abd-algaleel, Abdelkader A. Metwally, Hend M. Abdel-Bar, Dina H. Kassem and **Rania M. Hathout**<sup>\*</sup>

**Molecular Pharmaceutics**, 2021, 18, 3763–3776.

12- Evolution of the Computational Pharmaceutics Approaches in the Modeling and Prediction of Drug Payload in Lipid and Polymeric Nanocarriers

Shaymaa A. Abd-algaleel, Hend M. Abdel-Bar, Abdelkader A. Metwally and **Rania M. Hathout**<sup>\*</sup>

**Pharmaceutics**, 2021, 14(7), 646; <https://doi.org/10.3390/ph14070646>.

13- Soybean phosphatidylcholine-based Nanovesicular Topical Formulation for Non-invasive Treatment of Localized Obesity

Radwa A Mohamed, **Rania M Hathout**, Rasha S Hanafi, Ola A Heikal and Nagia N Afifi

**Journal of Pharmacology & Pharmaceutical Research**, 2021, volume 4, issue 3.

14- Modeling Drugs-PLGA Nanoparticles Interactions Using Gaussian Processes: Pharmaceutics Informatics Approach

**Rania M. Hathout**<sup>\*</sup>, OA Mahmoud, DS Ali, M Mamdouh, AA Metwally

**Journal of cluster science**, 2021, Just accepted.

15- Enhanced anti-bacterial effect of Kojic acid using gelatinized core liposomes: A potential approach to combat antibiotic resistance

Habeba Ezzat, Mai Rady, **Rania M. Hathout**<sup>\*</sup>, Mohammad Abdel-Halim, Samar Mansour

**Journal of Drug Delivery Science and Technology**, 2021, 64, 102625.  
<https://doi.org/10.1016/j.jddst.2021.102625>.

16- Potential for Chemistry in Multidisciplinary, Interdisciplinary, and Transdisciplinary Teaching Activities in Higher Education

John G. Hardy, Stephanie Sdepanian, Alison F. Stowell, Amal D. Aljohani, Michael J. Allen, Ayaz Anwar, Dik Barton, John V. Baum, David Bird, Adam Blaney, Liz Brewster, David Cheneler, Olga Efremova, Michael Entwistle, Reza N. Esfahani, Melike Firlak, Alex Foito, Leandro Forciniti, Sydney A. Geissler, Feng Guo, **Rania M. Hathout**, Richard Jiang, Punarja Kevin, David Leese, Wan Li Low, Sarah Mayes, Masoud Mozafari, Samuel T. Murphy, Hieu Nguyen, Chifundo N. M. Ntola, George Okafo, Adam Partington, Thomas A. K. Prescott, Stephen P. Price, Sherif Soliman, Papri Sutar, David Townsend, Patrick Trotter, and Karen L. Wright

**Journal of Chemical Education**, 2021, 98, 4, 1124-1145.

17- Augmented cytotoxicity using the physical adsorption of poloxamer 188 on allicin-loaded gelatin nanoparticles

Muhammed Ossama, **Rania M. Hathout**<sup>\*</sup>, Dalia A. Attia and Nahed D. Mortada

**Journal of Pharmacy and Pharmacology**, 2021, 2021, 73(5), pp. 664–672.

18- Glaucoma: Management and Future Perspectives for Nanotechnology-Based Treatment Modalities

Nada M. El Houffy, Engy A. Abdel Azim, **Rania M. Hathout**, Marwa A. Fouly, Seham A. ElKheshen

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19- Can the docking experiments select the optimum natural bio-macromolecule for doxorubicin delivery?

Heba A. Gad, **Rania M. Hathout**<sup>\*</sup>

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20- Uniting Electroceutical and Cosmeceutical Interventions in Combating Coronavirus using  $\epsilon$ -Poly-L-Lysine

**Rania M. Hathout**<sup>\*</sup>, Dina H. Kassem

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Salma M. Abdel-Hafez, **Rania M. Hathout**<sup>\*</sup>, Omaila A. Sammour

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22- Comparing cefotaxime and ceftriaxone in combating meningitis through nose-to-brain delivery using Bio/chemoinformatics tools

**Rania M. Hathout**<sup>\*</sup>, Sherehan G. AbdelHamid, Ghadir S. El-Housseiny, Abdelkader A. Metwally

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23- Enhancement of oral bioavailability of drugs using lipid-based carriers: A meta-analysis study

Nayera Nasser, **Rania M. Hathout**<sup>\*</sup>, Hend Abd-Allah, Omaina A. Sammour  
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24- Electroresponsive silk-based biohybrid composites for electrochemically controlled growth factor delivery

Adrián Magaz , Mark D. Ashton, **Rania M. Hathout** , Xu Li, John G. Hardy and Jonny J. Blaker  
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25- Positively Charged electroceutical spun chitosan nanofibers can protect health care providers from COVID-19 infection: an opinion

**Rania M. Hathout**<sup>\*</sup> and Dina H. Kassem  
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Nermine V. Fares, Hend Abd-Allah, Ahmed E. Sobieh, Hind Atta , Nada Ramekh, Hala Khaled, Mina William, Jailan Adel , Ali Waheed, Yasmeena Hisham, Omar Mostafa, Dina Sharbek , Mohamed Samir and **Rania M. Hathout**<sup>\*</sup>  
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**Rania M. Hathout**<sup>\*</sup>  
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Hani Nasser Abdelhamid, Haitham M. El-Bery, Abdelkader A. Metwally, Mohamed Elshazly, **Rania M. Hathout**<sup>\*</sup>  
**Carbohydrate Polymers**, volume 214, 15 June 2019, Pages 90-99.

33- Formulation of antimicrobial tobramycin loaded PLGA nanoparticles via complexation with AOT  
Marcus Hill, Richard Cunningham, **Rania M. Hathout**, John G. Hardy <sup>\*</sup>, Marie Migaud  
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34- “Gelatin Nanoparticles” by **Rania M. Hathout**<sup>\*</sup> and Abdelkader A. Metwally in  
“Basic Protocols in Pharmaceutical Nanotechnology” - **Methods in Molecular Biology** –  
Editor: Volkmar Weissig - Humana Press- Springer Publishing Group, 2019, volume  
2000:71-78.

35- Enhanced allicin cytotoxicity on HepG-2 cells using glycyrrhetic acid surface-decorated gelatin nanoparticles  
Muhammed Ossama, **Rania M. Hathout**<sup>\*</sup>, Dalia A. Attia and Nahed D. Mortada  
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36- Alzheimer’s disease and its current treatments; Is there a possibility for a cure?  
Ammar Ehab, Mohamed Ibrahim, Marel Magdi, Mohamed Ayman, Nourhan Zidan, Abdelbaset Osman, Sara Ashraf, Mayar Mohamed, Mirna Magdy, Marina Hany, Marise Adly, Nourhan Kamel, Amr Maher, Ammar Yaser, Yara Ahmed, Amal Abdelkarim, Marehan Ehab1, Rana Wael and **Rania M. Hathout**<sup>\*</sup>  
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Hend Abdelrady, **Rania M. Hathout**, Rihab Osman, Imran Saleem, Nahed D. Mortada  
**European Journal of Pharmaceutical Sciences**, 2019 Mar 21. pii: S0928-0987 (19) 30119-8. doi: 10.1016/j.ejps.2019.03.016.

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**Rania M. Hathout**<sup>\*</sup>, AbdelKader A. Metwally  
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40- Dual stimuli-responsive polypyrrole nanoparticles for anticancer therapy  
**Rania M. Hathout**<sup>\*</sup>, AbdelKader A. Metwally, Sherweit H. El-Ahmady, Eman S. Metwally, Noha A. Ghonim, Salma A. Bayoumy, Tarek Erfan, Rosaline Ashraf, Maha Fadel, Abdullah I. El-Kholy and John G. Hardy

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41- Polyphenols LC-MS2 Profile of Ajwa Date Fruit (*Phoenix dactylifera* L.) and Their Microemulsion: Potential Impact on Hepatic Fibrosis

Khaled A. Nematallah, Nahla A. Ayoub, Essam Abdelsattar, Meselhy R. Meselhy, Mohey M. Elmazar, Ahmed H. El-Khatibe, Michael W. Linscheid, **Rania M. Hathout**, Kavitha Goduguh, Aya Adeld, Shaker A. Mousah

**J Functional Foods**, Volume 49, October 2018, 401-411.

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Sayed Ashfaq Ali Shah, Melike Firlak, Stuart Ryan Berrow, Nathan Ross Halcovitch, Sara Jane Baldock, Bakhtiar Muhammad Yousafzai, **Rania M. Hathout** and John George Hardy **Materials**, 2018, 11(7), 1123.

43- *In-vitro* transdermal delivery of sesamol using oleic acid chemically-modified gelatin nanoparticles as a potential breast cancer medication

ElMasry SR, **Hathout RM\***, Abdel-Halim M, Mansour S.

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44- Exploring Gelatin Nanoparticles as novel nanocarriers for Timolol Maleate: Augmented in-vivo efficacy and safe histological profile

Shokry M, **Hathout RM\***, Mansour S

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45- Curcumin-loaded ultradeformable nanovesicles as a potential delivery system for breast cancer therapy.

Abdel-Hafez SM, **Hathout RM\***, Sammour OA.

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46- Characterization and Optimization of Phenolics Extracts from Acacia Species in Relevance to their Anti-inflammatory Activity.

Sara Gabr, Stefanie Nikles, Eva Maria Pferschy Wenzig, Karin Ardjomand-Woelkart, **Rania M. Hathout**, Sherweit H. El-Ahmady, Amira Abdel Motaal, Abdelnasser Singab, Rudolf Bauer

**Biochemical Systematics and Ecology**. 2018. Mar 23; 78; 21-30.

47- Intradermal vaccination with hollow microneedles: a comparative study of various protein antigen and adjuvant encapsulated nanoparticles

Guangsheng Du, **Rania M. Hathout**, Maha Nasr, M. Reza Nejadnik, Jing Tu, Roman Koning, Abraham J. Koster, Bram Slütter, Alexander Kros, Wim Jiskoot, Joke A. Bouwstra, Juha Mönkäre

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48- Tracking the transdermal penetration pathways of optimized curcumin-loaded chitosan nanoparticles via confocal laser scanning microscopy

Abdel-Hafez SM, **Hathout RM\***, Sammour OA.

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49- Curcumin or bisdemethoxycurcumin for nose-to-brain treatment of Alzheimer disease?  
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**Nat Prod Res.** 2017 Oct 12;1-10.

50- Gelatinized-core liposomes: Towards a more robust carrier for hydrophilic molecules  
**Hathout RM\***, Heba A. Gad and Metwally AA  
**J Biomed Mater Res A.** 2017 Nov;105(11):3086-3092.

51- Anti-tumor efficacy of an integrated Methyl Dihydrojasmonate transdermal microemulsion system targeting breast cancer cells: In-vitro and In-vivo studies  
Yehia R, **Hathout RM\***, Attia DA, ElMazar MM, Mortada ND  
**Colloids and Surface B: Biointerfaces**, 2017, 155, 512-521.

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El-Marakby, E., **Hathout, R.M.\***, Taha, I., Mansour, S., Mortada, N.  
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**Drug Dev Ind Pharm.** 2017 Jul;43(7):1112-1125.

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**J Control Release.** 2016 Mar 10; 225:1-30.

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### **3.1.2. Books and Book Chapters Authoring:**

1- “Systematic Reviewing and Meta-Analysis in Drug Delivery” in “**Principles in Research Methodology and Ethics in Pharmaceutical Sciences**” Editor: Vikas Anand Saharan – Publisher: CRS press , Just accepted, 2022.

2- “Machine Learning Methods in Drug Delivery” in “**Applications of Artificial Intelligence in Process Engineering**” Editor: Ren Jingzheng – Publisher: Elsevier , 2021. e-Book ISBN: 9780128217436.

3- “Pharmaceutics Informatics: Bio/chemoinformatics in Drug Delivery” in “**Computer Aided Pharmaceutics And Drug Delivery**” Editor: Vikas Anand Saharan– Publisher: Springer Nature Publishing Group, 2022. ISBN-10 : 9811651795, ISBN-13 : 978-9811651793.

4- “Teaching Principles of DoE as an Element of QbD for Pharmacy Students” in “**Computer Aided Pharmaceutics And Drug Delivery**” Editor: Vikas Anand – Publisher: Springer Nature Publishing Group, 2022. ISBN-10 : 9811651795, ISBN-13 : 978-9811651793.

5- “Computer Aided Formulation Development” in “**Computer Aided Pharmaceutics And Drug Delivery**” Editor: Vikas Anand – Publisher: Springer Nature Publishing Group, 2022. ISBN-10 : 9811651795, ISBN-13 : 978-9811651793.

6- “Novel approaches of Solid lipid nanoparticles as drug carrier” in “**Nanoengineering of Biomaterials**” Editors: Sougata Jana and Subrata Jana – Publisher: Wiley-VCH Verlag

GmbH & Co. KGaA, Boschstr. 12, 69469 Weinheim, Germany, 2022. ISBN: **978-3-527-34904-3**.

7- “Gelatin Nanoparticles” in “**Basic Protocols in Pharmaceutical Nanotechnology - Methods in Molecular Biology**” – Editor: Volkmar Weissig - Humana Press- Publisher: Springer Publishing Group, 2019. ISBN-13: 978-1493995158, ISBN-10: 1493995154.

8- “Back to Nature: Nanocarriers and Drugs in Cancer Therapy” in “**Frontiers in Bioactive compounds**” – Editor: Shaymaa Kassab, Publisher: Bentham e-book series – 27/11/2018 Ebk Series / FIBC / EOI-03.

9- “Tracing the nose-to-brain nanoparticulate drug delivery using bio/chemoinformatics tools” in “**A Handbook on Artificial Intelligence in Drug Delivery**” – Editors **Anil K. Philip, Aliasgar Shahiwala, Mamoon Rashid and Md Faiyazuddin**, Publisher: Elsevier – 2022. Paperback ISBN: 9780323899253.

10- “In-silico Approaches for Elastomers” in “**In-silico Approaches to Macromolecular Chemistry**” – Editors: Sabu Thomas, Haya Kornweitz, Publisher: Elsevier- 2021.

11- Introduction to Python Programming – University Press.

12- Bio/Chem Informatics for Biotechnology and Drug Targeting – University Press.

13- البدء في كتابة كتاب باللغة العربية ضمن سلسلة "ما" للهيئة المصرية للكتاب بعنوان : ما طب النانو -13

### **3.2. Editorial Roles:**

1- Associate Editor-in-Chief at the **Artificial cells, Nanomedicine and Biotechnology (Taylor& Francis Publisher)** Impact factor: **6.5**

2- Topic Editor at the **Pharmaceutics (MDPI Publisher)** journal Impact factor: **6.579**

3- Editor at the **Scientific Reports (Nature Publisher)** journal Impact factor: **4.379**

4- Topic Editor at the **Biomedicines (MDPI Publisher)** journal Impact factor: **6.081**

5- Guest Editor at the journal: “**Frontiers in Pharmacology**” the 2nd most-cited open access journal in Pharmacology and Pharmacy with an **Impact Factor of 5.810**

6- Review Editor at “**Frontiers in Drug Delivery**” – **Dermatological Drug Delivery**.

7- Editor in the **Open Journal of Chemistry, Peertechz, CA, USA**.

8- Member of the editorial board of Peertechz Open Journal of Chemistry, Peertechz, CA, USA.



9- Member of the editorial board of the World Journal of Clinical Oncology, Baishideng Publishing Group Inc., CA, USA.

10- Member of the editorial board of Peertechz Journal of medicinal chemistry and research, Peertechz, CA, USA.

11- Member of the editorial board of the International Research Journal of Sciences and Pharmacy.

12- Member of the editorial board of the journal Nanoscience & Nanotechnology – Asia.

### **3.3. Memberships of International Scientific Research Societies :**

Member of the Advisory Board of the Master's Program of College of Pharmacy, **Gulf Medical University, United Arab Emirates (UAE).**

Member of the **American Chemical Society (ACS)** – The most prestigious society of Chemistry world-wide.

Member of the **Controlled Release Society (CRS)** – The highest impact society in drug delivery world-wide.

Member of the **United Kingdom and Ireland Controlled Release Society (UKICRS).**

Member of the **Ocular Drug Delivery Focus group of the Controlled Release Society** (July 2018 till current).

Member of the **European Science Foundation.**

### **3.4. Funded Projects:**

Principal Supervisor for a project funded from the Academy of Science and Technology, Egypt (Scientists for Next Generation grants) with a fund of 100,000 L.E. for a project entitled:

“ **Oral Solid dosage forms containing an anticancer agent –loaded proniosomes** ” 2022-2025.

Principal Investigator in a collaborating project with the laboratory of quantitative Oncology, Institute of Biochemical Physics at the **Russian Academy of Science (RAS)** and the **Biomedical Chemistry Department at the Russian Research Center of Medical Diagnostics and Therapeutics**, entitled: “**Highly efficient delivery of carboplatin derivatives into tumor cells**” – October 2021 till current.

Principal Investigator and Researcher in a funded project from the Environmental and Serving Society sector - Ain Shams University for the year (2020-2021) entitled: “**Pharmaceutical and cosmeceutical preparations as prophylaxis against the corona virus aiming for the society health development**”

Principal Investigator and Researcher in a funded project from the Environmental and Serving Society sector - Ain Shams University for the two years (2016-2017) and (2017-2018) entitled: “**Photothermal chemo-combined cancer therapy using electrochemically synthesized polymers**”.

Main Participant of the international project funded by department of Chemistry and Materials Science Institute – Lancaster University – Lancaster – UK entitled: “**Conducting Polymer-based Materials for Electrically-triggered Drug Delivery**” (2016 – till current).

Member of the COMPACT project (a European project under the framework of **Innovative Medicines Initiative (IMI)** comprising 11 academic and 12 industrial partners (including Abbvie, Boehringer Ingelheim, GlaxoSmithKline, Merck-Serono and Sanofi-Aventis) with a total budget of 30 million Euros: <http://www.compact-research.org/>). COMPACT stands for **Collaboration on the Optimization of the Macromolecular Pharmaceutical Access to Cellular Targets** at Leiden/ Amsterdam Center for Drug Research (LACDR). Areas of research: a) Development and characterization of a range of nano- and micro-structures for delivery of peptides and proteins including nanoparticle-loaded dissolving microneedles for interadermal delivery, b) Biophysical characterization and understanding of protein aggregation and protein-material interactions, c) Proteins at solid-liquid and air-liquid interfaces.

Main researcher in a project that was funded by Ain Shams University, (2002-2006) under the title: “*Formulation of new drug delivery systems for ocular use*”.

Consultant in a project entitled “Evaluation of the antibiotics use in the community pharmacies in Egypt” attained by Department of Pharmaceutical Care and Health Systems – College of Pharmacy- University of Minnesota- USA.

Contributer in a project in Faculty of Medicine – Ain Shams university “**Preparing anti-ulcer drugs for pediatrics**” under the supervision of Prof. Mustafa Hodhod (2011-2012).

### **3.5. Scientific Conferences and Workshops**

**Delivered an Oral Session Talk (Speaker)** at the **47<sup>th</sup> Controlled Release Society Meeting and Exposition** – Virtual Conference – (29 June – 2 July, 2020) entitled:

“**Prediction of drug loading in nanoscale carriers using computational and bio/chemoinformatics methods**”

Attended the **Nanomedicine 2020 World Conference Boston (Virtual)** – 23<sup>rd</sup> July – 2020.

**Invited Speaker** for an oral presentation at the 45<sup>th</sup> Controlled Release Society (CRS) annual meeting July 22-24, 2018, **New York Hilton Midtown Manhattan Hotel, New York City, U.S.A.** The title of the talk was: **“Gelatinized Core Liposomes: A new Trojan Horse for the Development of A Novel Glaucoma Medication”**.

**Invited Speaker** at the Frontiers Breast Cancer Conference – **Holiday Inn London Hotel and Conference Centre – Heathrow- London – UK – 15-17 July, 2019** to give a talk entitled: **“Nanomedicine + Gene therapy = New horizons for breast cancer treatment”** under the thematic session **“ Innovative Therapeutic approaches in Breast cancer”**.

**Invited Delegate Speaker** at the 2<sup>nd</sup> International Conference on Material Science and Nanotechnology – Park Inn By **Radisson Hotel and Conference Centre – Heathrow- London – UK – 15-17 July, 2019** to give a talk entitled: **“Engineering nanocarriers for the efficient combating of cancer”**.

**Presented an oral talk** and a poster in the Controlled Release Society (CRS) 43<sup>rd</sup> annual meeting and exposition that was held on July 17-20, 2016 – **Seattle, Washington, USA** under the title of: **“Gaussian Processes: Towards better modelling of drug-loading in solid lipid nanoparticles”**.

**Presented an oral talk** and received the **European Science Foundation (ESF) full grant** (Conference fees, travel expenses and accommodation) to attend the **ESF-Biological surfaces and interfaces conference** (30 June – 5 July, 2013) at **Sant Feliu de Guixols, Catalonia, Spain** and **present a short talk** and a poster entitled: **“Chitosan nanoparticles production: the end of the debate”**.

**Presented an oral short talk** and a poster at the **19<sup>th</sup> international symposium on microencapsulation** (9-11 September, 2013) – **Pamplona – Spain**. The title of the talk was: **“The use of multivariate statistical methods in selecting stable Self -microemulsifying drug delivery systems of a poorly soluble drug”**.

**Presented an oral talk** under the title of **“Principle Component Analysis in Optimizing Drug Delivery Systems”** in the 3<sup>rd</sup> symposium on Biodendrimers (Biodendrimers 2012) – Toledo – Spain. (5-8 September, 2012).

Selected as **a speaker** in the **9<sup>th</sup> International Conference on Mathematics and Information Sciences** (Obtained a grant to attend the conference Supported by African Academy of Sciences, Zewail city of science and Technology, African Mathematical Union and International Mathematical Union, 6-8 February, 2020, Aswan, Egypt to present a talk entitled:

**“ Selecting an optimum nose-to-brain natural remedy of Alzheimer disease using Bio/chemo-informatics tools ”**.

**Guest Speaker** at the “**Pharmaceutical & Healthcare Sciences – PHS 2022**”, organized by the Faculty of Pharmacy, Alexandria University (PHS 2022 Annual Conference and Exhibition) to be held at Hilton Green-Plaza, Alexandria, Egypt, November 23-24, 2022.

**Invited Speaker** at the 14<sup>th</sup> International Phytocosmetics and Phytotherapy Congress (IPPC) – Virtual Conference – 10-12 May, 2022 to give a talk entitled: “ Transdermal targeting of breast cancer using phytochemicals-loaded polymeric nanoparticles”.

**Speaker** at Faculty of Pharmacy, Alexandria University PHS Webinar “Artificial Intelligence in Healthcare”, 27-28 November, 2021 to give a talk entitled: “**Pharmaceutics Informatics: A novel approach to revolutionize the drug delivery science**”.

**Keynote speaker** at the Pharmacist Learning Uptrend Science (PLUS) program – Hikma Pharmaceutical Company – Jordan (Luxor, 11-12 Nov, 2021) to give a lecture entitled: “**Access to Quality Medications**”.

**Keynote Speaker** at the 1<sup>st</sup> BUC (Badr University in Cairo) Conference of Pharmaceutical Sciences – 6<sup>th</sup> of November, 2021 to give a talk entitled: “**Machine learning methods in Drug Delivery: Novel Pharmaceutics Informatics approach**”.

**Keynote Speaker** at the International conference of Faculty of Pharmacy - MSA University (In collaboration with Greenwich University – UK) “ Pharmacists in Frontlines: New Challenges and Innovative Solutions” – 12-13 December, 2020 to give a talk entitled: “**Machine Learning Methods in Drug Delivery**”.

**Speaker** at the 10<sup>th</sup> International Ain Shams University Congress – 29-30<sup>th</sup> March, 2022 – Ain Shams University to give a talk entitled : “ **Pharmaceutics Informatics: An emerging platform in Drug Research**”.

**Invited Speaker** at 1<sup>st</sup> International Conference on Pharmaceutical and Bio-Medical Research (PBM2022) to be held on March 20<sup>th</sup> -21<sup>st</sup>, 2022, and organized by Faculty of Pharmacy, Sinai University-Kantara to give a talk under the title of : “ **Smart nanocarriers as an emerging platform for cancer therapy** ”.

**Invited Speaker** at the the “IPPC Egypt 2022” the second international conference curated by The Faculty of Pharmacy, Fayoum University in collaboration with The International Society for Phytocosmetic Science that will be held in Fayoum on 10th-12th May 2022 to give a talk entitled: “ **Transdermal targeting of breast cancer using phytochemicals-loaded polymeric nanoparticles**”.

Has an accepted Poster in the 26<sup>th</sup> Health Sciences Centre Poster Conference 2022, 22-44 March – Kuwait University – Kuwait, to give a talk entitled: “ **Machine Learning for predicting in vivo efficacy of siRNA ionisable lipid nanoparticles**”.

Has an accepted abstract for oral presentation entitled: “**Investigating Efficacy and Hypothesizing New Formulations of Repurposed Drugs for combating COVID-19 Pandemic**” in the 18<sup>th</sup> National Conference of National Committee of Biochemistry and

Molecular Biology – COVID-19 preparing for the next pandemic – The American University in Cairo – and under patronage of the Ministry of Scientific Research higher education and the academy of scientific research and technology – Cairo – Egypt- September 14-15, 2021.

Accepted poster in the **virtual United Kingdom and Poland Bio-inspired materials Conference** – 23-24 November 2020 under the title of:

**“ Hydroxychloroquine delivery using gelatin-based systems for combating COVID-19: Bio/chemoinformatics case study ”.**

Presented a poster in the **virtual United Kingdom and Ireland Controlled Release Society (UKICRS) symposium** – 14 October 2020 under the title of:

**“ Bio/chemoinformatics and formulation insights on the hydroxychloroquine debate on combating COVID-19 ”.**

Attended the Nature Research Academies workshop: **Systematic Reviews and Meta-analyses** – Nature Publisher and EKB - 17 January 2022.

Attended the workshop: **3D printing Technology in Drug Delivery, Product Development, Manufacturing and Personalized Medicine**, Controlled Release Society Annual Meeting and Exposition (Virtual) - 29 June - 2 July – 2020.

Attended the **12<sup>th</sup> “Breast and Gynecological International Cancer Conference - BGICC”** – Hilton Heliopolis – Cairo – Egypt (9-10 January, 2020).

**Invited Speaker** at the **7<sup>th</sup> International Conference of the Pharmaceutical and Drug industries Division of the National Research Institute** (April 6-7<sup>th</sup>, 2020 – Postponed to 2021), Safir Hotel- Cairo, to present a talk entitled:

**“ Transdermal targeting of Breast Cancer using Biopolymeric Nanoparticles”**

**Invited speaker** at the **10<sup>th</sup> International Conference of Faculty of Pharmacy – Cairo University** “ Precision medicine : Towards effective patient-tailored medications” 21-22 April 2020 (Postponed to 2021)– Grand Nile Tower Hotel Cairo to present a talk entitled:

**“Gene delivery and tumor targeting: Killing two birds with one stone”**

The founder of the **“ Pharmaceuticals for Industry Integrated Module – PIM ”** – Faculty of Pharmacy – Ain shams University : weekly seminars and assignments relating the Pharmaceuticals skills and knowledge with the Industrial Problems. The module comprises critical thinking – Problems diagnosis and Problem solving.

Held a workshop entitled **“ Stability Studies ”** – Central Administration for Drug Affairs (CAPA) – Cairo – 6<sup>th</sup> November – 2019.

Held a workshop entitled **“ Nanomedicine for the industry”** – Orchidia Pharmaceuticals- El-Obour – Cairo – 3<sup>rd</sup> October – 2019.

Attended a workshop on **“ Meta Analysis”** – TRUST Research Center – Cairo – Egypt (28-30 July, 2019).

Accepted abstract at the Controlled Release Society Annual meeting under the title of: **“Prediction of Drug Loading In Nanoscale Carriers Using Computational and Bio/Chemoinformatics Methods”**. The Exposition was held at Valencia, Spain from 21-24 July, 2019.

Attended the workshop **“Promote your research capabilities”** held by Elsevier at Ain Shams University, Cairo, Egypt, 19<sup>th</sup> of June.

Meeting and Exposition **Invited Speaker** in the Chinese University International Conference **“The international conference of Chinese Medicine and Function Medicine”** to give a talk entitled: **“Gene therapy and cancer cells drug targeting: Hitting where it really hurts”** – Al Manarh Conferences Centre- New Cairo – Egypt, April 14-16<sup>th</sup>, 2019.

**Invited Speaker** at the 2<sup>nd</sup> Ain Shams University International Conference to give a talk entitled: **“Combating cancer using smart nanocarriers”** – Ain Shams University Conference Hall – Ain Shams University – Cairo – Egypt – April 1-3<sup>rd</sup>, 2019.

**Guest Speaker** at the **Heal+ Erasmus** workshop on Health Informatics held by Faculty of Computer and Information Sciences – Ain Shams University to give a talk entitled **“The integration of Pharmaceutical Bioinformatics and Nanomedicine”** – Sonesta Hotel – Nasr City – Cairo, March 14<sup>th</sup>, 2019.

**Invited speaker** at the Breast-Gynecological & Immunology International Cancer Conference (BGICC) – Jan 17-18, 2019- Hilton Heliopolis Hotel . The title of the talk: **“Gene therapy and cancer cells drug targeting: Killing two birds with the same stone”**.

Accepted Poster in the 7<sup>th</sup> Kuwait International Pharmacy Conference entitled: **“Dual stimuli-responsive polypyrrole nanoparticles for anticancer drug delivery”** – Marina Kuwait hotel, Kuwait , 5-7 March, 2019.

Accepted Poster in the 7<sup>th</sup> Kuwait International Pharmacy Conference entitled: **“Gelatinized-core liposomes: One step further for the successful formulation of hydrophilic molecules”** – Marina Kuwait hotel, Kuwait , 5-7 March, 2019.

Attended a workshop entitled: **“Recent Trends in Natural Product and Medicinal Plants Research”** – National Research Centre, Giza, Egypt, March 4<sup>th</sup>, 2019.

**Chairperson** at the 4<sup>th</sup> Medical Integrated Students Research Conference – Faculty of Medicine – Ain shams University – Feb 13-14, 2019.

**Arab Health** International Congress – World Trade Centre – Dubai – 28-31 January, 2019.

Held a workshop entitled: **“Hands-on setting transdermal experiments using Franz diffusion cells”** – Department of Pharmaceutical Technology – Faculty of Pharmacy and Biotechnology – German University in Cairo (GUC) – 13 January 2019.

Held a workshop at Orchidia Pharmaceuticals – 29<sup>th</sup> of November, 2018, Obour Industrial Zone, Cairo, Egypt, under the title of: **“Preformulation”**.

Invited Speaker at the Pharmacology and Biochemistry Scientific Lectures Series (PBSLS) – 18-11-2018 – BUE (British University in Egypt) to give a talk entitled: **“ Generic vs Branded Oncology Drugs: Are they really comparable?”**.

**Invited Speaker** at the 6<sup>th</sup> Lilly Egypt Annual Summit for healthcare leaders (Shaping the future) to give a talk entitled: **“In Difficult to Treat Diseases: To Pay or Not to Pay for Innovation?”**, Helnan-Palestine Hotel, Alexandria, Egypt, 9 November 2018.

**Invited Speaker** at the Arab African International Cancer Congress (AAICC) Sep 20-21, 2018 JW Marriott Hotel, Cairo, Egypt. The title of the talk: **“ Gene therapy using siRNA-loaded nanoparticles as a new platform for precision medicine”**.

Chairperson at the Arab African International Cancer Congress (AAICC) Sep 20-21, JW Marriott Hotel, Cairo, Egypt at the **BUE Clinical Pharmacy workshop**.

**Invited Speaker** at the 2<sup>nd</sup> International Conference of Faculty of Pharmacy Ain Shams University (2<sup>nd</sup> ICPASU) Nov 13-15, 2018, Novotel Cairo Airport Hotel, Cairo, Egypt. The title of the poster : **“Transdermal targeting of the breast cancer using polymeric nanoparticles: Hitting where it hurts”**.

Presented a Poster at the 2<sup>nd</sup> International Conference of Faculty of Pharmacy Ain Shams University (2<sup>nd</sup> ICPASU) Nov 13-15, 2018, Novotel Cairo Airport Hotel, Cairo, Egypt. The title of the talk : **“Exploiting Gelatin Nanocarriers in the Pulmonary Delivery of Methotrexate for Lung Cancer Therapy”**.

Presented a Poster at the 2<sup>nd</sup> International Conference of Faculty of Pharmacy Ain Shams University (2<sup>nd</sup> ICPASU) Nov 13-15, 2018, Novotel Cairo Airport Hotel, Cairo, Egypt. The title of the poster : **“Augmented allicin cytotoxicity on HEPG-2 cells using glycyrrhetic acid- surface decorated gelatin nanoparticles”**.

Member of the scientific committee and head of the IT (submission) team of the 2<sup>nd</sup> International Conference of Faculty of Pharmacy Ain Shams University (2<sup>nd</sup> ICPASU) Nov 13-15, 2018, Novotel Cairo Airport Hotel, Cairo, Egypt.

Presented a poster at the 45<sup>th</sup> Controlled Release Society (CRS) annual meeting July 22-24, 2018, New York Hilton Midtown Manhattan Hotel, New York City, U.S.A. The title of the poster was: **“Gelatinized Core Liposomes: A new Trojan Horse for the Development of A Novel Glaucoma Medication”**.

Represented faculty of Pharmacy, Ain Shams University at Ain Shams University Open day (ASU open day) for the credit hours programs (9 July 2018).

Represented faculty of Pharmacy, Ain Shams University at the third Higher Education Fair at the Exhibitions land, Nasr city, Cairo, Egypt (20-21 July, 2018).

**Main Speaker** at Pfizer Company- Quality medication Selection Forum – 30<sup>th</sup> and 31<sup>st</sup> March (2018) – Amman – Jordan with a workshop entitled:  
**“Generic Oncologic Drugs: Are they all safe and effective enough?”**

**Invited speaker** at the 2<sup>nd</sup> Annual Arab International Pharmacy Conference (Pharmacy Vision 2030- Education-Profession and Pharma-Innovation)- March 17<sup>th</sup>-18<sup>th</sup> 2018- Fairmont Heliopolis Hotel – Cairo – Egypt. The title of the talk: **“ Innovative Approach in selecting Nano Carriers ”**.

**Invited speaker** at the first International Zewail City Meeting (Personalized Medicine: From Discovery Science to the patient), Al-Masah Hotel, Cairo, Egypt, 29<sup>th</sup> of March. The title of the talk: **“Silencing of the metastasis-linked gene, AEG-1, using siRNA-loaded surface-modified gelatin nanoparticles in MCF-7 cells”**.

Has an accepted abstract of a poster presentation (out of more than 2000 abstracts) in the BioVision Alexandria 2018 International Conference that will be held on Bibliotheca Alexandria Conference Center 22-24 April 2018. The title of the poster:  
**“Investigating natural and synthetic curcumin analogues for nose-to-brain treatment of Alzheimer”**.

**Invited speaker** at the 7<sup>th</sup> Annual Ain Shams University Congress (Internalization and Mobilization) that will be held from 2<sup>nd</sup> to 5<sup>th</sup> of April – Cairo – Egypt to present a talk under the title of: **“Computer-aided design of drug-loaded nanosystems”**.

**Member of the Scientific Committee** of the 2<sup>nd</sup> Annual Arab International Pharmacy Conference (Pharmacy Vision 2030- Education-Profession and Pharma-Innovation)- March 17<sup>th</sup>-18<sup>th</sup> 2018- Fairmont Heliopolis Hotel – Cairo – Egypt.

Participated as a supervisor for an oral presentation at the 3<sup>rd</sup> Medical Integrated Students Research Conference (MISR) which was held at faculty of Medicine – Ain Shams University – 6<sup>th</sup> to 7<sup>th</sup> December 2017 - Cairo – Egypt. The oral presentation was entitled:  
**“Gelatinized-core liposomes: A Trojan horse for the development of a novel glaucoma medication”** which won the 6<sup>th</sup> prize out of 74 oral presentations.

**Invited Speaker** at the 6<sup>th</sup> International Conference of Pharmaceutical and Drug Industries Division", 23<sup>rd</sup> -24<sup>th</sup> October 2017, in Safir Hotel-El Dokki-Giza, Egypt to give a speech entitled: **“Machine Learning Methods: A new approach in nanomedicine”**.

Held a workshop at Orchidia Pharmaceuticals – 6<sup>th</sup> of September, 2017, Obour Industrial Zone, Cairo, Egypt, under the title of: **“Solubility and Solubilization”**.

Representative of the Drug Design Program – Faculty of Pharmacy – Ain Shams University at the 2<sup>nd</sup> Higher Education Conference held at Cairo Exhibitions Land – Cairo- Egypt (20-21 July – 2017).

Attended the “Nanotechnology symposium”, The British University in Egypt (BUE), Cairo, Egypt, July 2017.



Reviewer for the Controlled Release Society (CRS) 44<sup>th</sup> annual meeting and exposition, July 16-19, 2017 – Boston Sheraton Hotel and Hynes Convention Center in Boston, Massachusetts, USA.

Accepted poster in the Controlled Release Society (CRS) 44<sup>th</sup> annual meeting and exposition, July 16-19, 2017 – Boston Sheraton Hotel and Hynes Convention Center in Boston, Massachusetts, USA under the title of: **“Exploiting Gelatin Nanocarriers in the Pulmonary Delivery of Methotrexate for Lung Cancer Therapy”**.

Accepted poster in the Controlled Release Society (CRS) 44<sup>th</sup> annual meeting and exposition, July 16-19, 2017 – Boston Sheraton Hotel and Hynes Convention Center in Boston, Massachusetts, USA under the title of: **“Selecting an optimum nose-to-brain remedy of Alzheimer disease using bio/chemo-informatics tools”**.

Selected to attend the 2017 Annual Nanomedicine Symposium, Cambridge, MA, USA, 15 July, 2017.

**A guest speaker** in the British University in Egypt (BUE) Pharmacy Graduation Project Day (PGPD) – 25<sup>th</sup> of May 2017 – BUE Auditorium – Cairo – Egypt.

**Selected to participate** with an accepted abstract in the German-Egyptian Network for Innovation and Development (GENID) conference funded by the Alexander Von Humboldt Foundation under the title **“Selecting an optimum nose-to-brain natural remedy of Alzheimer disease using bio/chemo-informatics tools”** 22-23 February, Intercontinental City stars, Cairo, Egypt, 2017.

**Selected to participate** with an accepted abstract in the German-Egyptian Network for Innovation and Development (GENID) conference funded by the Alexander Von Humboldt Foundation under the title **“Computational approaches to the selection of protein nano-carriers for natural polyphenols”** 22-23 February, Intercontinental City stars, Cairo, Egypt, 2017.

Supervised an oral talk delivered by a group of students of the Drug Design Program entitled **“Photothermal-chemo combined cancer therapy using electrochemically polymerized polypyrrole loaded with a natural chemotherapeutic agent: Hitting two birds with the same stone”** in the 2<sup>nd</sup> Medical Integrated Students Research Conference (MISR) held 21-22 December, 2016 at Faculty of Medicine, Ain shams University, Cairo, Egypt.

Chair and referee in the 2<sup>nd</sup> Medical Integrated Students Research Conference (MISR) held 20-21 December, 2016 at Faculty of Medicine, Ain shams University, Cairo, Egypt.

**Eminent speaker** at the 1<sup>st</sup> Annual Scientific Conference of the Arab Association of Pharmacists Progress “A Little More Practice For A Much More Progress”, Intercontinental city stars, Cairo, Egypt, March 30<sup>th</sup> to April 1<sup>st</sup>, 2017. The talk is under the title: **“Machine learning methods in optimizing drug delivery systems”**.

Invited Chairperson for the Future University, 4<sup>th</sup> International Conference of Pharmaceutical Sciences, 4<sup>th</sup> FUE-ICPS, Jan 31<sup>st</sup> through Feb 2<sup>nd</sup>, 2017, Dusit-Thani, Cairo, Egypt.

**Keynote speaker** in the Sixth workshop of the Drug Manufacturing Unit- Faculty of Pharmacy – Cairo University entitled “**Development of pharmaceutical dosage forms via QbD: Concept and hands-on computer training**” – December 2016.

Participated with a poster in the 2<sup>nd</sup> International conference and Expo on Drug Discovery and Designing under the title of “**Penetration enhancing hybridized vesicles for the efficient ocular delivery of an anti-glaucoma drug**” – October 27-29, 2016, Rome, Italy.

**Speaker** at the Scientific Conference of Faculty of Pharmacy – Ain Shams University presenting a talk entitled “**Integrating Chemoinformatics and machine learning methods for optimizing drug delivery systems**” – October 2016 – Faculty of Pharmacy – Ain Shams University – Cairo – Egypt.

Attended Nanomedicines: Materials, manufacturing and Therapeutic applications symposium – Washington Athletic Club – Seattle – Washington, 16<sup>th</sup> of July 2016.

Delivered a workshop as the only speaker and tutor in Faculty of Pharmacy, 26<sup>th</sup> May 2016 under the title of: “**Mathematical modeling using Design Expert<sup>®</sup>: Introduction and Applications**”.

Accepted abstract in the 14<sup>th</sup> European Symposium on Controlled Drug Delivery (ESCDD 2016) that was held in April 2016 in Egmond aan Zee- The Netherlands, under the title of: “**Potential transdermal anticancer treatment using integrated methyl dihydrojasmonate microemulsion systems**”.

Held a workshop in the British University in Cairo, 9 Feb 2016 under the title of: “**Mathematical modeling using Design Expert<sup>®</sup> Program: Introduction and Applications**”.

Reviewer for the Controlled Release Society (CRS) 43<sup>rd</sup> annual meeting and exposition that was held on July 17-20, 2016 – Seattle, Washington, USA.

Accepted abstract in BioVision Alexandria 2016 – Alexandria – Egypt entitled: “**Computational tools can replace Pharmaceutical microemulsions formulations solubility studies**”.

Reviewer for the 5<sup>th</sup> International Conference on Biomedical Engineering and Biotechnology – 2016 (ICBEB-2016) - China

One of the academic organizers of the “**Arab African and API Congress-AAAPCI Congress**” Le Passage – Cairo – Egypt, 17-18 May 2016.

A chairperson and a referee for the **Scientific Sessions 1 and 2 of the 1<sup>st</sup> Medical**

**Integrated Students Research Conference** held on Saturday 31<sup>st</sup> of October 2015 – Canyon Hall -Fairmont Hotel – Heliopolis- Cairo – Egypt.

Accepted abstract for poster presentation in the 2015 International Liposome society conference – London, entitled:

**“Penetration Enhancing Hybridized Vesicles for the Efficient Ocular Delivery of an Anti-Glaucoma Drug”.**

Attended a webinar entitled **“Novel Drug Delivery Methods”** by Prof. Robert Doyle, Syracuse University, November 2015.

Reviewer for the Controlled Release Society (CRS) 42<sup>nd</sup> annual meeting that was held on July 26-29, 2015 – Edinburgh, Scotland.

Has two accepted abstracts and presented them in the Controlled Release Society (CRS) 42<sup>nd</sup> annual meeting that was held on July 26-29, 2015 – Edinburgh, Scotland, entitled:

**“Computer-Assisted Drug Formulation: Computational tools for dosage form design”**  
And

**“Gelatinized core liposomes: Towards an advanced carrier for hydrophilic drugs formulation”**

**A distinguished invited speaker** in the 3<sup>rd</sup> international FUE conference (February 9-11, 2015, Cairo, Egypt) and delivered a talk under the title of **“Ocular drug delivery: A focus on protein carriers”**.

Reviewer for the International Workshop on Chemical Sciences and Pharmaceutical Research (CSPR 2014), September 25-28 Beijing, China.

Attended the 17<sup>th</sup> scientific congress of of the association of colleges Pharmacy in the Arab world: New trends in Drug Discovery, Development and Pharmacy Practice (14-16 October, 2014).

Attended the 19<sup>th</sup> international symposium on microencapsulation – Pamplona –Spain (9-11 September, 2013)- Pamplona – Spain and presented a poster entitled **“Could liposomes be a suitable carrier for systemic delivery of an anti-osteoporotic drug via the pulmonary route?”**

Attended the FUE International Workshop on Modern Tablet Manufacturing, QC/QA and Bioavailability/Bio-equivalence (February 20-21, 2013, Cairo, Egypt).

Attended the Humboldt Kolleg conference:, “Pharmaceutical and Biotechnological Therapies” 28 September – 1 October, 2012 -German University in Cairo.

Published a poster in 2012 International Conference on Pharmaceutical Technology (ICPT) – Future University in Egypt (FUE) entitled: **“The use of NMR in the localization of a model drug in microemulsion formulations”**.

Published a poster in 2011 United Kingdom and Ireland Controlled Release Society Symposium (Queen's University-Belfast) entitled: **“Microemulsion formulations for the transdermal delivery of olmesartan medoxomil”**.

Attended the workshop “Foundations of Computational Chemistry” – 2011 – Faculty of Pharmacy – Ain Shams University

Presented 2 posters in the 3<sup>rd</sup> skin symposium and 10<sup>th</sup> annual skin forum that were held in Versailles – Paris (France) – March 2009 entitled: **“Microemulsion formulations for the transdermal delivery of testosterone”** and **“Mechanisms of stratum corneum penetration enhancement by topical microemulsions”**.

Had an accepted abstract for a poster in the ESF-UB Conference in Biomedicine: Nanomedicine: Reality Now and Soon, 23-28 October 2010 • Sant Feliu, Spain, entitled: **“Visualization, spatial distribution determination and molecular effects monitoring of a microemulsion formulation in the skin stratum corneum”**.

Attended Skin Focus meetings 2008 – 2009, Bristol, England and Cardiff – Wales – UK.

Published a poster in the First conference for development of scientific researches – Ain Shams University (2005).

Presented 2 posters in AlAzhar Third International Conference for Pharmaceutical and biological Sciences (2003).

Attended Confocal laser scanning microscopy training, department of physics, Bath University, Bath, UK (2009).

Attended an intensive training and development event, 2008 for graduate teaching associates and postgraduates with teaching responsibilities – Carpenter house innovations Centre – University of Bath – UK.

Applications of X-ray Diffraction workshop – Faculty of Science – Ain Shams University (2001).

HPLC usage training, Agilent company, Egypt (2010).

Attended the webinar “Laser Diffraction technique for particle Size and Method Development” by Malvern Company – UK (2012).

Participated as a lecturer in the “way out” workshop for students assistance in applying for scholarships and exchange travel grants (2012).

The educational course for demonstrators and teaching assistants – Faculty of arts – Ain Shams University (2005).

Attended a workshop on educational systems management “MOODLE” – March 2016-

Faculty of Pharmacy- Ain Shams University.

### **3.6. Peer Reviewing:**

#### **3.6.1. Books Peer Reviewing:**

1- Reviewer for the book entitled "Recent Trends in Antifungal Agents" – Springer Publishings – 2015.

2- "Experimental Designs in Pharmaceutical Formulation Development" – CRC Press – 2021.

#### **3.6.2. Journals Peer Reviewing:**

Reviewer for the Controlled Release Journal

Reviewer for ACS applied Materials and Interfaces

Reviewer for the Scientific Reports journal

Reviewer for PLOS One

Reviewer for the journal “Cornea”

Reviewer for the European Journal of Pharmaceutics and Biopharmaceutics .

Reviewer for the International Journal of Nanomedicine.

Reviewer for the European Journal of Pharmaceutical Sciences.

Reviewer for the Expert Opinion on Drug Delivery journal.

Reviewer for the International Journal of Biological Macromolecules.

Reviewer for the Drug Delivery journal.

Reviewer for the International Journal of Pharmaceutics.

Reviewer for the journal Drug Development and Industrial Pharmacy.

Reviewer for the journal of Ocular Pharmacology and Therapeutics.

Reviewer for the journal of Carbohydrates Polymer.

Reviewer for the journal of Colloids and surfaces B: Biointerfaces.

Reviewer for Molecular Pharmaceutics journal.

Reviewer for the IET Nanobiotechnology journal.

Reviewer for the Indian Journal of Pharmaceutical Sciences.

Reviewer for the African journal of Pharmacy and Pharmacology.

Reviewer for the journal of Advanced Research.

Reviewer for the international journal of nanomedicine.

Reviewer for the journal of liposome research.

Reviewer for the Current Drug Delivery journal.

Reviewer for the journal of Bioequivalence and Bioavailability.

Reviewer for the journal of Bioinformatics.

Reviewer for the international journal of Spectroscopy.

Reviewer for the Current Pharmaceutical Design Journal.

Reviewer for the Biochemical Engineering journal.

Reviewer for the journal Archives of Dermatological Research.

Reviewer for the Current Drug Targets journal.

Reviewer for Journal of Chromatography B.

Reviewer for the Journal of Applied Biomedicine.

Reviewer for the Phytomedicine journal.

Reviewer for the Biomedical Chromatography journal.

Reviewer for the Journal of Colloid and Interface Sciences.

Reviewer for the Journal of Drug Delivery Science and Technology.

Reviewer of the journal Artificial cells, Nanomedicine and Biotechnology.

Reviewer of the journal of Food Hydrocolloids.

Reviewer of the journal of Biomedical Nanotechnology.

Reviewer for the journal of Integrative Medicine.

Reviewer for the Journal of Herbal Medicine.

Reviewer for Chemical Engineering Research and Design (ChERD).

Reviewer for the journal of Pharmaceutical and Biomedical Analysis.

Reviewer for the journal of Natural Product Research.

Reviewer for Journal of Molecular Liquids.

Reviewer for Therapeutic Innovation and Regulatory Science.

Reviewer for Nanomedicine-UK (Future medicine).

Reviewer for Drug Design, Development and Therapy.

Reviewer of the Chemical Engineering Journal.

Reviewer of Cancer Management And Research.

Reviewer of Biomedical Chromatography.

Reviewer for Journal of Biomaterials science: Polymer Edition

Reviewer for Computers in Biology and Medicine

Reviewer for Artificial cells, nanomedicine and Biotechnology

Reviewer of Journal of Dispersion Science and Technology

Reviewer for Current Drug Metabolism

Reviewer for Pharmaceutics (MDPI)

Reviewer for Polymers (MDPI)

Reviewer for Advances and applications in Bioinformatics and Chemistry

Reviewer for Frontiers in Bioengineering and Biotechnology

Reviewer for Thermochemica Acta

Reviewer for the Journal of Cellular Biochemistry

Reviewer of the International Journal of Environment and Public Health-MDPI

### **3.7. Supervising Defended Projects / Thesis:**

- 1- Dermatopharmacokinetics in comparing advanced drug delivery carriers for topical delivery (Master thesis, Department of Pharmaceutical Technology, German University in Cairo (GUC), Cairo, Egypt), January 2022.
- 2- Optimization of nano delivery systems of an anticancer drug (Masters thesis, Department of Pharmaceutics and Industrial Pharmacy, Ain Shams University, Cairo, Egypt), July 2021.
- 3- New particulate system for the ocular treatment of Glaucoma (Masters thesis, Department of Pharmaceutics and Industrial Pharmacy, Future University in Egypt (FUE), Cairo, Egypt), January 2021.
- 4- Augmented kojic acid antibacterial effect using nano vesicles (Master thesis, Department of Pharmaceutical Technology, German University in Cairo (GUC), Cairo, Egypt), August 2020.
- 5- Efficient delivery of an anti-cancer drug using gelatin nanoparticles (Masters thesis, Department of Pharmaceutics and Industrial Pharmacy, Ain Shams University, Cairo, Egypt), 2019.
- 6- Gelatin-based particulate systems for the delivery of an anti-cancer drug (Masters thesis, Department of Pharmaceutics and Industrial Pharmacy, Ain Shams University, Cairo, Egypt jointly with Liverpool John Moors University – United Kingdom, 2019.
- 7- Nanoparticulate drug delivery carriers for liver targeting (Ph.D. thesis, Department of Pharmaceutics and Industrial Pharmacy, Ain Shams University, Cairo, Egypt).
- 8- “A potential cancer dual therapy using nano-sized penetration enhancing vesicles: A double impact weapon added to the arsenal” (B.Sc. Project, Drug Design Program, Ain Shams University, Cairo, Egypt) (2019) GPA: A, Score: 99%.
- 9- “Gelatinized-core liposomes: A Trojan horse for the development of a new glaucoma medication” (B.Sc. Project, Drug Design Program, Ain Shams University, Cairo, Egypt) (2018) GPA: A, Score: 99%.
- 10- Gelatin nanoparticles for ocular delivery (Master thesis, Department of Pharmaceutical Technology, German University in Cairo (GUC), Cairo, Egypt).
- 11- Transdermal Drug Delivery Using Chemically Modified Gelatin Nanoparticles (Master thesis, Department of Pharmaceutical Technology, German University in Cairo (GUC), Cairo, Egypt).
- 12- Preparation and evaluation of colloidal systems of an anticancer drug for transdermal delivery (Masters thesis, Department of Pharmaceutics and Industrial Pharmacy, Ain Shams University, Cairo, Egypt).



- 13- Colloidal carriers for transdermal delivery (Masters thesis, Department of Pharmaceutics and Industrial Pharmacy, Ain Shams University, Cairo, Egypt).
- 14- Lipid nanocarriers for treatment of certain types of cancer (Masters thesis, Department of Pharmaceutics and Industrial Pharmacy, Ain Shams University, Cairo, Egypt).
- 15- Photo-thermal Chemo-combined therapy using Electrochemical Polymerization: Hitting two birds with the same stone (B.Sc. Project, Drug Design Program, Ain Shams University, Cairo, Egypt) (2017) GPA: A, Score: 99%.
- 16- Modeling drug loading in PLGA nanoparticles using docking experiments and Gaussian Processes (B.Sc. Project, Drug Design Program, Ain Shams University, Cairo, Egypt) (2016).
- 17- Penetration Enhancing Hybridized Vesicles for the Efficient Ocular Delivery of an Anti-Glaucoma Drug (Masters thesis, Department of Pharmaceutical Technology, German university in Cairo (GUC), Cairo, Egypt) (2015).
- 18- Silencing of the metastasis-linked gene, AEG-1, using siRNA-loaded choline-modified gelatin nanoparticles in the breast carcinoma cell line MCF-7 (Masters thesis, Department of Pharmaceutical Technology, German university in Cairo (GUC), Cairo, Egypt) (2015).
- 19- Formulation of Topical preparation for treatment of local obesity (Ph.D. thesis, Department of Pharmaceutical Technology, German University in Cairo (GUC), Cairo, Egypt).
- 20- Nano-systems of a curcumin derivative for cancer therapy (Masters thesis, Department of Pharmaceutics and Industrial Pharmacy, Ain Shams University, Cairo, Egypt).
- 21- Towards better vaccine delivery through the pulmonary route (B.Sc. Project, Drug Product Design Program, Ain Shams University, Cairo, Egypt) (2012).
- 22- Silencing of the Scavenger Receptor (Class B- Type 1) Using siRNA Loaded Chitosan Nanoparticles in a HepG2 Cell Model (Masters thesis, Department of Pharmaceutical Technology, German university in Cairo (GUC), Cairo, Egypt) (2014).
- 23- Applications of Nanotechnology in Brain Targeting (Masters thesis, Department of Pharmaceutical Technology, German university in Cairo (GUC), Cairo, Egypt) (2014).
- 24- Gelatin-based particulate systems for ocular delivery (B.Sc. Project, Drug Product Design Program, Ain Shams University, Cairo, Egypt) (2014).
- 25- Applications of Nanotechnology in Brain Targeting (Masters thesis, Department of Pharmaceutical Technology, German university in Cairo (GUC), Cairo, Egypt).

### **3.8. External Examiner for defended theses:**

- 1- Examiner at Faculty of Pharmacy – Ain Shams University for the M.Sc. thesis : **“Development and evaluation of lipid nano-carriers for the treatment of dermatitis”** – 7<sup>th</sup> July 2021.
- 2- External examiner of a PhD thesis at Faculty of Pharmacy, Cairo University for the thesis entitled:  
**“A Pharmaceutical study on certain targeted nano delivery system”** – March 2021.
- 3- External examiner at the German University in Cairo (GUC) for the M.Sc. thesis:  
**“ Development and Optimization of Fusogenic Liposomes for Protein Delivery ”**- August 2020.
- 4- Examiner at Faculty of Pharmacy – Ain Shams University for the M.Sc. thesis : **“Melt Granulation of some anti-malarial formulations”** – 5<sup>th</sup> March 2020.
- 5- External examiner at the German University in Cairo (GUC) for the M.Sc. thesis:  
**“Nanocarriers for protein delivery”** – August 2018.
- 6- External examiner at the **National Institute of Laser Enhanced Sciences (N.I.L.E.S.)** for the M.Sc. theisi entitled: **“Pharmaceutical study of resveratrol alone and combined with photothermal effect of gold nanoparticles”** – March 2018.
- 7- External examiner at the **American University in Cairo (AUC)** for the M.Sc. thesis in Nanotechnology (Faculty of Sciences and Engineering) entitled **“Lipid nanocapsules for brain targeting”** – 15 June 2017.
- 8- External examiner at Faculty of Pharmacy - Alexandria University for the M.Sc. thesis : **“Development of inhalable dually active targeted hybrid lipid-zein core-shell nanocomposites for combined delivery of All-Trans retinoic acid and Genistein to lung cancer”** – 13<sup>th</sup> January 2018.

## **4. Commitees and Communities Activities:**

### **4.1. Commitees activities:**

- 1- Member of the Higher council of Research of Ain Shams University (Dec 2020 – till current).
- 2- Member of the Advisory Board of the Master's Program of College of Pharmacy, **Gulf Medical University, United Arab Emirates (UAE) (2020- till current).**
- 3- Member of the **Specialized Committee on Registration of Medical Devices – Central**

**Administration for Medical Devices – Egyptian Drug Authority – Egypt (June 2021 – till current).**

4- Member of the **American Chemical Society (ACS)** – The most prestigious society of Chemistry world-wide.

5- Member of the **Controlled Release Society (CRS)** – The highest impact society in drug delivery world-wide.

6- Member of the **United Kingdom and Ireland Controlled Release Society (UKICRS).**

7- Member of the **Ocular Drug Delivery Focus group of the Controlled Release Society** (July 2018 till current).

8- Member of the **European Science Foundation.**

9- Member of the **International Society for Phytocosmetic Science.**

## **4.2. Communities Activities:**

1- Supervised a workshop held at the Department of Pharmaceutics and Industrial Pharmacy entitled: **“Preparation of cosmetics from natural components”** – 4<sup>th</sup> of October- 2021.

2- Member of the Specialized Committee on Registration of Medical Devices

لجنة تسجيل المستلزمات الصيدلانية بهيئة الدواء المصرية

– Central Administration for Medical Devices – Egyptian Drug Authority – Egypt (June 2021 – till current).

3- Organized a learning activity at the Department of Pharmaceutics and Industrial Pharmacy for the students (11 years old) of the Children University – Academy of Science and Technology – Ministry of Higher Education (Feb 2020) to teach the children how to prepare the toothpastes in a very simple and interesting way.

4- Participated in the organization of several community beneficial events with the students of the Drug Design Program (2-14-2018) such as:

1- The breast cancer awareness day

2- Diabetes awareness day

3- Autism day

4- Disabilities awareness day

5- Philosophy

6- Psychology and Personality tests

5- Collaborated in a project with Faculty of medicine – Ain Shams University to prepare special capsules containing reduced doses for children of stomach ulcers.

6- One of the three members of the administrative committee organizing the postgraduate scientific seminars (Purely Science of Pleasure-PSP) – Faculty of Pharmacy – Ain Shams University – 2011-2014.

7- Principal investigator of two projects to serve the community which are funded by the community and environmental sector of Ain Shams University.

8- President of the Egyptian Student Union in Bath (ESUB) 2009.

9- Reviewer for Helwan University Incentive awards (2021).

10- Reviewer for the STDF/STIFA scientific projects (2017 – till current)

11- Reviewer for the MARC (Mounir Armanious Research Center) projects (Innovation in Research and Industrial Applications) – December 2021 till current.

## **5. Accreditation and Quality Assurance Activities:**

1- Participated in all the accreditation and quality assurance related activities being the Head of Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University (June 2021– till current).

2- Participated in all the accreditation and quality assurance related activities being the Head of Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Ain Shams University (Sep2019 – Sep2020).

3- Quality Assurance Delegate of the Drug Design Program, Faculty of Pharmacy, Ain ShamsUniversity (2014-2018).

4- Member of the norm of the administrative and financial affairs (2012-2014), Quality Assurance accreditation Unit , Faculty of Pharmacy, AIn Shams University.

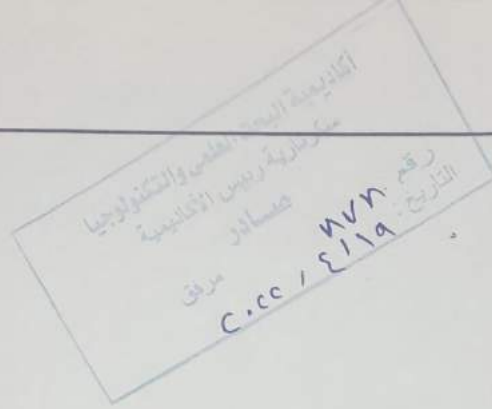
5- Participated in updating the Research Strategic Plan of Faculty of Pharmacy, AIn Shams University (2018-2023).

6- Participated in the Development of several courses specifications and reports being the course coordinator of several courses (2010-2021).

## **6. Continuous Development Activities:**

Attended intensive courses for lecturer training and development of skills and obtained certificates from FLDC (Faculty Leadership and Development Center) at Ain Shams University:

- 1- Application of credit hours systems in universities.
- 2- The use of technology in teaching.
- 3- Competitive research projects skills.
- 4- Ethics of scientific research.
- 5- Effective presentation skills.
- 6- Quality standards in the teaching process
- 7- Managing research projects.
- 8- Financial and regulatory aspects.
- 9- Managing time and meetings.
- 10- Electronic exams and question banks.
- 11- SPSS
- 12- Communication Skills
- 13- Designing electronic courses
- 14- Leadership
- 15- The use of technology in teaching 2 (Powerpoint + Movie maker)
- 16- Communication Skills 2
- 17- Exams systems and students evaluations
- 18- Ethics and attitude of the profession



أكاديمية البحث  
العلمي والتكنولوجيا  
Academy of Scientific  
Research & Technology



السيدة الأستاذة الدكتورة / رانيا محمد حافظ محمد تحتوت  
أستاذ بكلية الصيدلة - جامعة عين شمس

تحية طيبة.. ودمع،

يُسعدني أن أقدم لسيادتكم بأسمى آيات التهنية بمناسبة فوزكم

بجائزة الدولة للتفوق في مجال العلوم التكنولوجية المتقدمة لعام ٢٠٢١

مع تمنياتنا الصادقة بأن تكون تلك الجائزة علامة مضيئة في طريقكم للرقى والتقدم

ونفعلوا سواكم بغيرك وأفرا الاستراح والتقدير

رئيس الأكاديمية

"أ.د. محمود محمد صقر"

"سيدة"

السيدة (الركنورة) / رانيا محمد محافظ محمد محمود  
مدرسة بكلية (الصيدلة) - جامعة عين شمس

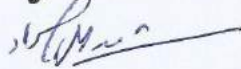
تحية طيبة .. وبعد،

فيطيب لي أن أهنئ سيادتك بفوزك بجائزة الدولة التشجيعية في العلوم  
التكنولوجية المتقدمة التي تمنحها الوزارة العلمية لعام ٢٠١٤ ، لما أنتمت به انجازكم  
والإنجاز من قيمة علمية متميزة تميزكم بالإنجاز والالتزام العلمي والقدرة على الابتكار ، وإنه  
ليعد في هذه المناسبة أن أبعث إليكم تهنئة مجلس الأكاديمية منميا لكم ودوام التوفيق والتقدم .

وتفضلوا سيادتك بقبول التهنئة تحياتي

وزير

البحث العلمي



"أ.د. عريفت ماسو"



السيدة الدكتورة / رانيا محمد حافظ محمد حتوت

أستاذ مساعد بكلية الصيدلة - جامعة عين شمس

تحية طيبة.. وبعد،

يسعدني أن أبعث لسيادتكم بالتهنئة الخالصة بفوزكم

بجائزة أ.د. إكرام عبد السلام في مجال الوراثة الطبية لعام ٢٠١٦ ،

مع أصدق تمنياتنا أن تكون تلك الجائزة علامة مضيئة في طريقكم للرقى والتقدم .

وتفضلوا سيادتكم بقبول وافر الاحترام والتقدير

رئيس الأكاديمية

” أ.د. محمود محمد صقر ”

” سيدة ”







السيدة الدكتورة / رانيا محمد حافظ محمد حتوت

أستاذ مساعد بكلية الصيدلة - جامعة عين شمس

تحية طيبة.. وبعد،

يسعدني أن أبعث لسيادتكم بالتهنئة الخالصة بـ فوزكم

بجائزة أ.د. عبده سلام في مجال الدواء والمستحضرات الطبية لعام ٢٠١٧ ،

مع اصدق تمنياتنا أن تكون تلك الجائزة علامة مضيئة في طريقكم للرقى والتقدم .

وتفضلوا سيادتكم بقبول وافر الاحترام والتقدير

رئيس الأكاديمية

" أ.د. محمود محمد صقر "

أكاديمية البحث العلمي والتكنولوجيا  
مكتبة رئيس الأكاديمية  
مصادر

مرفق

رقم

التاريخ



ASU-VPG-PM41-/F008

السيدة الأستاذة الدكتورة/ رانيا محمد حافظ تحتوت  
الأستاذ بقسم الصيدلانيات والصيدلة الصناعية  
بكلية الصيدلة

تحية طيبة وبعد ،،،

في إطار حرص الجامعة على الاهتمام بتشجيع وتحفيز السادة اعضاء هيئة  
التدريس المتميزين علمياً على المستوى المحلى والإقليمى والدولى .  
فإننا نتشرف بدعوة سيادتكم لحضور احتفالية الجامعة لتكريم سيادتكم  
لاختياركم من قبل جامعة ستانفورد الامريكية ضمن قائمة أفضل ٢ % من علماء  
العالم ، وذلك يوم الثلاثاء الموافق ٨ / ١٢ / ٢٠٢٠ في تمام الساعة الحادية  
والنصف صباحا بمدرج البنهاوى بكلية الطب ، بحضور السيد أ.د/ رئيس الجامعة  
والسادة نواب رئيس الجامعة.

وتفضلوا بقبول فائق الشكر والتقدير،،،

رئيس الجامعة  
أ.د/ محمود المتينى

خالصة تقديرى

تحريرا في: ٢٠٢٠ / ١٢ / ٢٠

**STUDY  K**

# ALUMNI AWARDS

**Egypt**

Tuesday 22 February 2022

**Rania Hathout**

**Finalist**

Science and Sustainability Award

University of Bath

Elizabeth White  
Country Director, British Council



أ.د. رانيا حتوت

أستاذ الصيدلانيات كلية الصيدلة جامعة عين شمس


بعد التحية.....،

يسعدنا إعلان فوزكم في جائزة "صديق عفيفي للبحث العلمي والابتكار والأدب" - في مجال  
المعلوماتية والذكاء الاصطناعي ( أبحاث ) والتي تم تنظيمها من قبل أ.د. صديق عفيفي راعي الجائزة  
لعام ٢٠٢١.

ونود أن نشكركم على أبحاثكم القيمة ندعوكم لحضور حفل توزيع الجوائز لاستلام الجائزة وذلك  
يوم الإثنين الموافق ١٤ / ٦ / ٢٠٢١ في حديقة قصر البارون - مصر الجديدة الساعة السابعة مساءً.

وتفضلوا سيادتكم بقبول فائق الاحترام...

راعي الجائزة



أ.د. صديق عفيفي

رئيس مجموعة طبية تعليمية

رئيس اللجنة التنفيذية



أ.د. سعاد عبد الخالق

كلية الصيدلة - جامعة حلوان

والمستشار الأكاديمي لمجموعة طبية تعليمية

ملحوظة : حضور الحفل بالدعوة فقط وقاصر على المدعوين





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Find PDF Full Text Options ▾ Export... Add to Marked List 20 of 45

**Exploring the use of nanocarrier systems to deliver the magical molecule; Curcumin and its derivatives**

By: Mehanny, M (Mehanny, Mina)<sup>[1]</sup>; Hathout, RM (Hathout, Rania M.)<sup>[1]</sup>; Geneidi, AS (Geneidi, Ahmed S.)<sup>[1]</sup>; Mansour, S (Mansour, Samar)<sup>[1,2]</sup>  
 View Web of Science ResearcherID and ORCID

JOURNAL OF CONTROLLED RELEASE  
 Volume: 225 Pages: 1-30  
 DOI: 10.1016/j.jconrel.2016.01.018  
 Published: MAR 10 2016  
 Document Type: Review  
 View Journal Impact

**Abstract**  
 Curcumin and its derivatives; curcuminoids have been proven as potential remedies in different diseases. However, their delivery owing to their poor aqueous solubility, photodegradation, chemical instability, poor bioavailability and rapid metabolism. This review explores and criticizes the numerous attempts that were adopted through the years to entrap/encapsulate this valuable drug in nanocarriers aiming to reach its most appropriate

**Citation Network**  
 In Web of Science Core Collection  
**53** Highly Cited Paper

As of January/February 2019, this highly cited paper received enough citations to place it in the top 1% of the academic field of Pharmacology & Toxicology based on a highly cited threshold for the field and publication year.

Data from Essential Science Indicators

Close Window

**328**

## You feature in Chemistry in Africa: Open & Global Special Virtual Issue

Inbox X



Jha, Ajay <Ajha@acs-1.org>

Mon, Sep 21, 5:19 PM (2 days ago)



to me

Dear Prof. Hathout,

We are delighted to inform you that your article titled "Prediction of Drug Loading in the Gelatin Matrix Using Computational Methods" <https://pubs.acs.org/doi/10.1021/acsomega.9b03487> has been featured in our just-released special Virtual Issue "Chemistry in Africa: Open & Global" (<https://pubs.acs.org/page/acsodf/vi/chemistry-in-africa>) - many congratulations!

We are honored that this Virtual Issue is led by a guest-editorial co-written by Elizabeth Marincola, Senior Advisor for Communications and Advocacy at the African Academy of Sciences, and Thomas Kariuki, Director of programs at the African Academy of Sciences. Both are well-renowned advocates for African research and Open Science. The Virtual Issue showcases a topically diverse collection of high-quality work that spans the Continent. It provides a glimpse of the richness of African-based research in chemistry and interfacing areas of science.

Kindly share this news with your co-authors, colleagues and collaborators via your social media or professional networking platforms. We have showcased the Virtual Issue from our official Twitter account: [https://twitter.com/ACS\\_Omega/status/1307039113901812128](https://twitter.com/ACS_Omega/status/1307039113901812128) (please retweet).

Thank you for choosing ACS Omega as a venue to disseminate your research. We hope to continue this association and receive further contributions from you in the future.

With our congratulations and best wishes,

Ajay Jha, Ph.D. (on behalf of the ACS Omega team)

Development Editor, ACS Omega

<https://pubs.acs.org/journal/acsodf>

Email: [ajha@acs-1.org](mailto:ajha@acs-1.org)



نتيجة تقييم أعضاء هيئة التدريس و الهيئة المعاونة لأداء رؤساء الأقسام العلمية للعام الجامعي 2020/ 2019

العدد: 7

القسم : قسم الصيدلانيات و الصيدلة الصناعية

موضوع الاستبيان	ممتاز	جيد جدا	جيد	مقبول	ضعيف
1- يسهل التواصل مع رئيس القسم عند الحاجة	100%	0%	0%	0%	0%
2- يحرص رئيس القسم على توزيع الموارد المتاحة للقسم بموضوعية	100%	0%	0%	0%	0%
3- يحترم آراء الآخرين و يسمح بالحوار	100%	0%	0%	0%	0%
4- لديه شخصية قيادية وحسنة عند اتخاذ القرار	100%	0%	0%	0%	0%
5- له سياسة واضحة و معلنة في إدارة القسم و تطويره	100%	0%	0%	0%	0%
6- يهتم بإطلاع الهيئة المعاونة على اللوائح و القوانين الجامعية	85.71%	14.28%	0%	0%	0%
7- يحيط القسم علما بكل جديد في اللجان ومجالس الكلية والجامعة	100%	0%	0%	0%	0%
8- يقوم بتقويض بعض المهام بغرض التعليم	100%	0%	0%	0%	0%
9- يعطي فرصة للخطأ مع تعليم الصواب	85.71%	14.28%	0%	0%	0%
10- يستخدم القواعد والقوانين في إدارة القسم	100%	0%	0%	0%	0%
11- يدير مجلس القسم بأسلوب ديمقراطي	100%	0%	0%	0%	0%
12- يحاول حل مشكلات أعضاء القسم بفاعلية	100%	0%	0%	0%	0%

مقترحات لزيادة رضا أعضاء هيئة التدريس

لا يوجد



## شكر و تقدير

تتقدم كلية الصيدلة جامعة عين شمس بخالص الشكر و التقدير إلى

**الأستاذ المساعد / رانيا محمد حافظ حتحات**

**قسم الصيدلانيات و الصيدلة الصناعية**

و تهنئكم على تقديرات استبيانات وحدة الجودة ( استبيان تقييم الطلاب لأداء أعضاء هيئة التدريس ) للعام الجامعي ٢٠١٨/٢٠١٩

درجة ( ٤,٦ درجة ) في تدريس مقرر اساليب التصنيع الدوائي الجيد - الفرقة الرابعة - الفصل الدراسي الاول.

درجة ( ٤,٥ درجة ) في تدريس مقرر صيدلانيات - الفرقة الثانية - الفصل الدراسي الاول.

نشكر سيادتكم على حسن تعاونكم ومشاركتكم في التحسين المستمر للفاعلية التعليمية

عميد كلية الصيدلة

مدير وحدة ضمان الجودة بالكلية

أ.د / مها فاروق عبد الغنى

أ.م / رولا ميلاد لبيب

## شكر و تقدير

**السيد الأستاذ الدكتور / رانيا حتحات**

يتقدم عميد الكلية واسرة برنامج بكالوريوس في الصيدلة (التصميم الدوائي)

بنظام الساعات المعتمدة

**بخالص الشكر و التقدير**

لحصول سيادتكم على تقييم متميز للأداء التدريسي

من قبل طلاب البرنامج

خلال العام الجامعي ٢٠١٧/٢٠١٨.

عميد الكلية

منسق البرنامج



## شكر و تقدير

السيد الأستاذ الدكتور / رانيا محمد حافظ حثوت

يتقدم عميد الكلية واسرة برنامج بكالوريوس في الصيدلة (التصميم الدوائي)  
بنظام الساعات المعتمدة

## بخالص الشكر و التقدير

لحصول سيادتكم على تقييم متميز للأداء التدريسي  
من قبل طلاب البرنامج  
خلال العام الجامعي ٢٠١٥/٢٠١٦.

عميد الكلية  
د. عبد الناصر سنجاب

منسق البرنامج  
أ.م.م. شيرين أحمد



## Certificate of Appreciation

This acknowledges that

*Dr. Rania Mohamed Hathout*

Has Participated as a

**Supervisor (Best Presentation)**

GRADUATION PROJECT DAY  
FACULTY OF PHARMACY  
AIN SHAMS UNIVERSITY  
MAY 2017



Faculty Dean

*Shirine*  
DDP Coordinator



## Certificate of Appreciation

This acknowledges that

*Mania Hatkout*

Has Participated as a  
**Supervisor**  
**For Best Topic**

GRADUATION PROJECT DAY  
FACULTY OF PHARMACY  
AIN SHAMS UNIVERSITY  
APRIL 28<sup>th</sup> 2018

*[Signature]*  
Faculty Dean



*[Signature]*  
DDP Coordinator

تتقدم إدارة الكلية بالشكر والتقدير

*د/ رانيا محمد صحتوت*

لما بذلتموه في نجاح نظام إثناء لميكنة أعمال شؤون الطلاب والكترول بالكلية

*[Signature]*  
عميد الكلية  
أ.د. / عبد الناصر بدوي سنجاب



وكيل الكلية لشؤون التعليم والطلاب

أ.د. / خالد أبو زيد محمد

## شهادة تقدير

السيد الاستاذ الدكتور / رانيا حتوت

استاذ مساعد بقسم الصيدلانيات والصيدلة الصناعية .....

تحية طيبة وبعد .....

يتقدم عميد الكلية و أسرة وحدة توكيد الجودة بالكلية بخالص الشكر والتقدير لمبادرتكم و ذلك لحصولكم على

درجة ٤.٣ درجة بنسبة ٨٦% في تدريس مقرر صيدلانيات - الفرقة الثانية - الفصل الدراسي الأول وذلك من

خلال استبيانكم تهييم الطلاب لأداء أعضاء هيئة التدريس للعام الجامعي ٢٠١٦/٢٠١٧ و نشكر مبادرتكم على حسن

تعاونكم و مشاركتكم في التحسين المستمر للفاعلية التعليمية.

وتفضلوا سيادتكم بقبول فائق الاحترام و التحية .....

مدير وحدة توكيد الجودة بالكلية

د. / خالد أبو شبيب

عميد الكلية

د. / محمد الناصر بدوي سنجاب





ScienceDirect

# THIS CERTIFIES THAT

RANIA MOHAMMED HATHOUT  
MICROEMULSION FORMULATIONS FOR THE  
TRANSDERMAL DELIVERY OF TESTOSTERONE  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES - VOLUME 40, ISSUE 3

FEATURED IN THE  
SCIENCEDIRECT TOP 25  
LIST OF MOST DOWNLOADED ARTICLES

RANKED 10TH ON THE TOP 25  
FOR PHARMACY AND PHARMACOLOGY - APRIL TO JUNE 2010

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Department of  
Chemistry

Lancaster  
University



**Prof. Peter Fielden**  
Department of Chemistry  
Lancaster University  
Bailrigg  
LA1 4YB, UK

Email: [p.fielden@lancaster.ac.uk](mailto:p.fielden@lancaster.ac.uk)  
Tel. +44 (0)1524 594748

May 2016

To whom it may concern at Ain Shams University,

I am pleased to offer Dr. Rania Mohammed Hafez Mohammed Hathout (Associate Professor in the Department of Pharmaceutics and Industrial Pharmacy – Ain Shams University) a scholarship to visit the Department of Chemistry and the Materials Science Institute at Lancaster University, to spend 1 month as a **Visiting Scientist** learning about conducting polymer-based materials for drug delivery with Dr. John Hardy.

- Her visit is financially supported by a grant from Lancaster University.
- The date of her visit is from August 10<sup>th</sup> 2016 until September 11<sup>th</sup> 2016.



Rania Hathout, Ph.D.  
Faculty of Pharmacy- Ain Shams University  
Cairo, Egypt

14 Mai 2013

Subject: Letter of Invitation

Biological Surfaces and Interfaces- 27 June - 07 July 2013 - Hotel Eden Roc, Sant Feliu de Guixols, Catalonia, Spain

Birthday: 25/11/1977 Nationality: Egyptian Passport number: A07150016 Date of issue: 05/06/2012 Date of expiry: 04/06/2019

Dear Rania Mohammed Hafez Mohammed Hathout,

On behalf of the Conference Chair, I am pleased to inform you that you have been accepted to attend the above FEBS-ESF Conference on **Biological Surfaces and Interfaces** and to present a poster and a short talk entitled: '**Chitosan nanoparticles production: End of the debate**'.

The following financial conditions apply to your attendance:

You have been offered a grant, which covers your full conference fee (board & lodging in twin accommodation) Please note that the allocation of this support is subject to your attendance for the entire duration of the conference.



UPPSALA  
UNIVERSITET

## Certificate

This is to certify that

*Rania Mohamed Hafez Moham Hathout*

has completed the distance course

Pharmaceutical Bioinformatics, 7.5 ECTS credits

January – March 2011

with grade Pass with Distinction (the highest grade)

Uppsala, April 20, 2011

A handwritten signature in blue ink, appearing to read 'Maria Lapsins'.

Dr. Maria Lapsins  
Course leader

A handwritten signature in blue ink, appearing to read 'Jari E. S. Wikberg'.

Prof. Jari E. S. Wikberg  
Director of studies



# شهادة تقدير



يسر مؤسسة مصر الخير أن تمنح جائزة مصر الخير للنشر العلمي لعام ٢٠١٣

للسيد الدكتور / رانيا محمد حافظ محمد حتجوت

تقديرًا لمجهوداته العلمية المتميزة عن بحثه :  
Applications of NMR in the characterization of pharmaceutical microemulsions

متمنين له مزيداً من التوفيق والنجاح

التوقيع: (.....)  
أد / علي جمعة  
رئيس  
مجلس الأمناء



التوقيع: (.....)  
د / عيسى شقور  
استشاري وحدة  
البحث العلمي والابتكار

الحفل الثاني على التوالي  
لتوزيع جوائز المنشورات العلمية



# شهادة تقدير

تتشرف

مؤسسة مصر الخير

بأن تشيد بالجمود البحثية للدكتورة / رانيا محمد حافظ محمد حتجوت

نظراً لجمدها الفعال في مقالته البحثية المقدمة في مسابقة "جوائز المنشورات العلمية" والتي تم إختيارها ضمن أفضل المقالات المنشورة في المجالات العلمية العالمية ذات معامل تأثير مرتفع وتشرف مؤسسة مصر الخير بإندماجها إلى قائمتها ضمن أفضل الباحثين المصريين ذوي الإسهام العلمي المتميز ..

مع أطيب التمنيات بدوام التوفيق ..

أد / علي جمعة  
رئيس مجلس أمناء مؤسسة مصر الخير  
ومفتي الديار المصرية  
توقيع (.....)

د / علاء الدين أديس  
رئيس لجنة البحث العلمي  
عضو مجلس أمناء مؤسسة مصر الخير  
توقيع (.....)

حزب في ديسمبر ٢٠١١

الحفل الثاني على التوالي  
لتوزيع جوائز المنشورات العلمية



# شهادة تقدير

تتشرف

## مؤسسة مصر الخير

بأن تشيد بالجهود البحثية للدكتورة / رانيا محمد حافظ محمد حتوت

نظراً لجمدها الفعال في مقالتهما البحثية المقدمة في مسابقة " جوائز المنشورات العلمية " والتي تم إختبارها ضمن أفضل المقالات المنشورة في المجلات العلمية العالمية ذات معامل تأثير مرتفع كما يسر مؤسسة مصر الخير أن تمنحها جائزة لحضور مؤتمر دولي في تخصصها يساهم في دعم مسيرتها العلمية و تشرف مؤسسة مصر الخير بإنضمامها إلى قائمتها ضمن أفضل الباحثين المصريين ذوي الإسهام العلمي المتميز ..

مع أطيب التمنيات بدوام التوفيق ..

أ.د / علي جمعة  
رئيس مجلس أمناء مؤسسة مصر الخير  
ومفتي الديار المصرية  
توقيع ( )

د / علاء الدين أديس  
رئيس لجنة البحث العلمي  
عضو مجلس أمناء مؤسسة مصر الخير  
توقيع ( )

حرر في ديسمبر ٢٠١١

**Reviews of International Professors summarizing Rania Hathout's visits to their universities:**



Dr. John G. Hardy  
Department of Chemistry &  
Materials Science Institute  
Faraday Building  
Lancaster University  
Lancaster  
LA1 4YB  
UK

Email: [j.g.hardy@lancaster.ac.uk](mailto:j.g.hardy@lancaster.ac.uk)  
Tel. ++44 (0)1524 595080

September 2016

To whom it may concern:

I am writing to inform you about the enjoyable and productive visit of Dr. Rania Hathout as a visiting researcher at the Department of Chemistry and Materials Science Institute at Lancaster University in England in August 2016.

I have been in contact by email with Dr Hathout since 2015 regarding one of her former students and our mutual interest in research on the topic of drug delivery sparked a conversation regarding initiating a collaborative research project combining our complementary research interests (my interest in electronically controlled drug delivery devices, and Dr Hathout's interest in computational/theoretical understanding of drug delivery processes). We secured some funds from Lancaster University to initiate a collaborative project "Conducting Polymer-based Materials for Electrically-Triggered Drug Delivery" which have helped to support the cost of her trip to Lancaster.

During her visit Dr Hathout has been a pleasure to work alongside, and she has developed polypyrrole-based biomaterials loaded with drugs (Dexamethasone phosphate and Meropenem) and demonstrated that it is possible to trigger the release of the drugs with electricity. Dr Hathout has employed a variety of different techniques throughout the project: synthesis) electropolymerization of the monomer (pyrrole) to form films; characterization) Fourier Transform infrared spectroscopy, X-ray photoelectron spectroscopy, scanning electron microscopy; drug delivery) Electrically-triggered release, quantitation via UV-vis spectroscopy. The data generated during the visit forms the kernel of a publication.

Dr Hathout approaches research in a mature fashion and has a strong work ethic. She proved capable of learning new experimental techniques very quickly and demonstrate their use to other researchers in the department, which is clear evidence of her ability to communicate, her leadership ability and warm personality. I look forward to fruitful collaborative interactions with Dr Hathout in the future.

Feel free to contact me if you require more information. Warmest regards,

Dr. John G. Hardy

A handwritten signature in purple ink, which appears to read "John Hardy", is written over a horizontal line.



Universiteit Leiden

**Division of  
Drug Delivery Technology**  
Gorlaeus Laboratories  
P.O.Box 9502, Einsteinweg 55  
2300 RA Leiden, The Netherlands

Tel: (+31)-(0)71- 5274314

Fax: (+31)-(0)71-5274565

Ref. 0098/WJ/2013

Date: September 19, 2013

E-mail: [w.jiskoot@lacr.leidenuniv.nl](mailto:w.jiskoot@lacr.leidenuniv.nl)

**To whom it may concern,**

I am pleased to report that Dr. Rania Hathout has finished successfully her six-month postdoctoral fellowship in the section Drug Delivery Technology at Leiden University, the Netherlands.

During this period Dr Hathout was assigned a research project entitled "Preparation and characterization of vaccine carriers and their interaction with skin". She successfully developed novel polymeric nanosphere formulations, namely cationized gelatin nanospheres, for ovalbumin antigen delivery into the skin. She learned and applied several methods to prepare these particles, characterize them, load them with the antigen, perform *in-vitro* release studies in different media, and labelling these nanoparticles to be able to visualize them in the skin using confocal microscopy. During her research she was trained on new techniques of protein characterization such as nanoparticle tracking analysis (NTA).

I was absolutely satisfied with Dr Hathout's performance in my laboratory. She has worked diligently and conscientiously. She is very precise and to the point. She thoughtfully plans her experiments and her analyses and presentation of the results are extremely thorough. Dr Hathout has been determined to solve many technical problems during her work patiently. She always tries to understand the underlying reason for her results and to answer any arisen question. Besides, she has the ability to work efficiently in a team.

Please do not hesitate to contact me if you require further information or details.

Sincerely,

Prof. Wim Jiskoot





**Professor Richard H. Guy**

Department of Pharmacy & Pharmacology  
Claverton Down  
Bath, BA2 7AY  
Tel: +44 (0)1225 384900; fax +44 (0)1225 396114  
Email: [r.h.guy@bath.ac.uk](mailto:r.h.guy@bath.ac.uk)  
[www.bath.ac.uk/pharmacy/staff/rhg.shtml](http://www.bath.ac.uk/pharmacy/staff/rhg.shtml)

August 3, 2009

**Professor Maisa Farid**  
Cultural Counsellor  
Egyptian Cultural Centre & Educational Bureau  
4 Chesterfield Gardens  
London, W1J 5BG

**Ms. Rania HATHOUT**

I am pleased to report that Ms. Hathout has finished collecting the scientific material needed for the eventual submission of her doctoral thesis. Since coming to Bath, Ms. Hathout has been performing research work which will lead to the submission of a Ph.D. thesis at her home University (Ain Shams University) in Egypt. Ms. Hathout has been participating in the so-called 'Channel Scheme', whereby an Egyptian student undertakes a part of his or her doctoral study in an overseas laboratory (in this case, at the University of Bath in the Department of Pharmacy & Pharmacology) with complementary skills and techniques to those of her home department.

Ms. Hathout's research concerns the development of novel formulations, called *microemulsions*, for drug delivery to the skin. The creation and characterisation of these unique pharmaceutical preparations are the foci of the research of Ms. Hathout's Egyptian supervisor. In my laboratory, here in Bath, Ms. Hathout has been examining the potential of her microemulsions to successfully deliver a model drug (specifically, testosterone) into and through the skin. My research has concentrated upon the mechanism of skin absorption and the manner in which components of complex vehicles, like microemulsions, interact with the dermal barrier. We have techniques, such as attenuated total reflection infrared spectroscopy, which can provide unique molecular-level information on the underlying reasons why some formulations work better than others. It has been possible, therefore, to provide a very synergistic component to Ms. Hathout's research work, and some rather positive data have been obtained; indeed, Ms. Hathout was able to present her results at an international meeting held this Spring in Versailles, France (Skin & Formulation, 3<sup>rd</sup> Symposium, sponsored by the Association de Pharmacie Galénique et Industrielle).

Ms. Hathout has continued to optimise the microemulsion formulations, and to further characterise the permeation not only of the model drug, but also the individual components of the vehicle itself. This level of detail is rarely, if ever, obtained when the effectiveness of topical formulations is assessed. Because of her excellent progress, however, Ms. Hathout mastered the necessary experimental techniques, and undertook this detailed study with confidence. The result is that Ms. Hathout has accumulated sufficient data to prepare two detailed manuscripts for publication in the peer-reviewed literature. I am presently correcting the second drafts of these papers and would hope to submit them sometime this summer.

I am absolutely delighted with Ms. Hathout's performance in my laboratory. She has worked diligently and conscientiously. Her work is careful, the planning of her experiments is subject to

considerable thought, and her analyses of the results are extremely thorough. Ms. Hathout shows all the qualities that one wants to see in a new, young investigator, and I am sure that she has a very productive career ahead of her. It should also be said that Ms. Hathout has been an exemplary colleague in my laboratory, enjoying good relationships with all group members, and a willingness to help out whenever needed. In summary, I am sorry to see Rania go – we shall miss her very much!

Please do not hesitate to contact me if you require further information or details. Sincerely,

**Richard H. Guy, Ph.D.**  
Professor of Pharmaceutical Sciences  
University Research Adviser

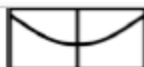
To whom it may concern

I have had the chance to work with Dr. Rania Hathout on the project "Skin delivery of ovalbumin using novel gelatin nanospheres" at the Division of Drug Delivery Technology, Leiden Academic Center for Drug Research in the period of March-September 2013.

I found Rania an enthusiastic scientist with an impressive skill set, who never loses focus on the project. During her visit, she managed to perform a considerable amount of work and successfully overcame several experimental challenges, the result of which will in near future be published in a respected journal. I look at our collaboration as one that can continue in the future to conduction of more fruitful scientific projects.

At the personal level, I found Rania's attitude professional and friendly making her a nice colleague in any laboratory. Also noteworthy is her open approach to other cultures and environments as shown by her good adaptation to the Dutch system during her stay in the Netherlands.

Reza Nejadnik, PhD.  
Division of Drug Delivery Technology  
LACDR, Leiden University  
Gorlaeus Laboratories  
Einsteinweg 55  
2333 CC Leiden  
The Netherlands  
Phone: +31 71 527 6331  
Fax: +31 71 527 4565



Universidade de Brasília  
Faculdade de Ciências da Saúde  
Departamento de Farmácia

Prof. Dr. Guilherme M. Gelfuso  
Telefone: +55 61 31071842  
E-mail: gm.gelfuso@unb.br

Brasília, February 28<sup>th</sup> 2017

**To Whom it May Concern**

It is my pleasure to write a letter of recommendation for Dr. Rania Hathout.

I have been in contact with Dr. Rania since nine years ago.

After completion of her undergraduate studies, she was offered a teaching assistant assignment in the Department of Pharmaceutics, Faculty of Pharmacy, Ain Shams University, Egypt. I had a good fortune of knowing Rania for the first time as a colleague in the laboratory of Professor Richard Guy at the department of Pharmacy and pharmacology, University of Bath during her Ph.D. She showed proficiency of an accumulated knowledge and expressed herself well during her studies. As being a member of her group, I have had an opportunity to observe her participation and interaction and to evaluate her performance. She was capable in a very short time to become one of the outstanding co-workers. She worked with a dedicated awareness of her job. She could understand and apply everything assigned to her. I have been very impressed by her dedication and perseverance. She participated in tutoring and grading undergraduate students and she had the ability to excel in every challenging environment. I would rate her overall performance as excellent. It has been my pleasure to deal with Rania and I look forward for her outstanding research accomplishment and contribution if she is given the opportunity of the proposed grant.

I am currently still in contact with Rania and it came to my knowledge that she has also been granted a 6-month post-doc visit to Leiden/Amsterdam Centre of Drug Research (LACDR), the Netherlands. Moreover, she was also granted a funded short scientific visit from the department of Chemistry, Lancaster University, UK. She acquired a Pharmaceutical Bioinformatics certificate from Uppsala University, Sweden and scored the highest grade. She has many international publications in prestigious journals such as: *J controlled release*, *Nanomedicine NBM*, *Eur J Pharm Biopharm*, *Nanomedicine (UK)*, *Mol Pharm*, *Int J Pharm*, *Eur J Pharm Sci*, *Drug Delivery*, *Phytomedicine*, *J Biomedical Materials Research A*, *J Pharmacy and Pharmacology*, *Drug Dev Ind Pharm* and *Colloids and Surf B*. She contributed with oral presentations and posters in several international conferences in the USA, England, Scotland, Spain, France and Ireland. She was awarded several national and international prizes and awards.

With respect to Rania as an individual, she is an extremely ethical person. She is a very hard worker with a high degree of intelligence. And most remarkably is that she is very cooperative with her colleagues, highly responsible and trustworthy.



Universidade de Brasília  
Faculdade de Ciências da Saúde  
Departamento de Farmácia

Prof. Dr. Guilherme M. Gelfuso  
Telefone: +55 61 31071842  
E-mail: gm.gelfuso@unb.br

Therefore, I highly recommend her for the research project / grant she has applied for.

If you need any further information, please do not hesitate to contact me.

Yours sincerely,

Dr. Guilherme Martins Gelfuso





In cooperation with  
INSTITUTION OF CHEMICAL ENGINEERS



CHEMICAL ENGINEERING  
RESEARCH AND DESIGN

# *Certificate of Outstanding Contribution in Reviewing*

awarded October, 2017 to

**RANIA HATHOUT**

In recognition of the contributions made to the quality of the journal

The Editors of **CHEMICAL ENGINEERING RESEARCH AND DESIGN**  
Elsevier, Amsterdam, The Netherlands



PHYTOMEDICINE



# *Certificate of Outstanding Contribution in Reviewing*

awarded January, 2018 to

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In recognition of the contributions made to the quality of the journal

The Editors of **PHYTOMEDICINE**  
Elsevier, Amsterdam, The Netherlands







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## **EDITORIAL BOARD CERTIFICATE**

Dear Dr. Hathout,

First of all, I would like to congratulate you on becoming a member of the new Editorial Board for the World Journal of Clinical Oncology. I particularly hope that under your guidance the World Journal of Clinical Oncology will experience stable growth over the next four years.

**Number ID:** 04124154

**Publication Name:** World Journal of Clinical Oncology

**Personal Information:** Rania Mohammed Hathout, PhD, Associate Professor,  
Department of Pharmaceutics and Industrial Pharmacy, Ain Shams University, Cairo  
11566, Cairo, Egypt

**Position:** Editorial Board

**Submission Date:** 2019-02-18

**Start Date – End Date:** 2019-01-01 - 2021-12-31

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importantly, as a World Journal of Clinical Oncology Editorial Board member you should contribute different types of high-quality articles to the journal, including original articles, reviews, minireviews and editorials, or invite high-quality articles through your own academic influence.

If you have any questions, please feel free to contact us via e-mail at:  
[bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com).

Best regards,

Lian-Sheng Ma, Founder and Chief Executive Officer

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## Gain inspiration and develop collaborations Material Science -2019 - London, UK

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From: James Michael | Material Science 2019 | London, UK (materialscience@innovincmeetings.org)

To: r\_hathout@yahoo.com

Date: Friday, 24 May 2019, 01:23 EET

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Dear Dr. Rania M. Hathout,

Greetings from **Material Science 2019!**

We came across your publications; On behalf of our organizing committee, it's our great honor to invite you as a speaker for 2<sup>nd</sup> International Conference on Material Science and Nanotechnology from Monday July 15 to Wednesday July 17, 2019 in London, UK.

As an invited speaker, you are offered a grant to support your 3 nights' accommodation along with breakfast and lunch at our conference venue "Park Inn by Radisson Hotel & Conference Centre Bath Road, Heathrow Middlesex UB7 0DU London Heathrow, UK". The grant also partially covers the registration fees.

For more details about the conference: <https://imsnc2019.org/>

We are pleased to announce that the below confirmed keynote speakers will deliver the opening lectures at Material Science -2019.

Prof. E. E. Escultura, Australia  
Prof. Guo-Quan Lu, Virginia Tech, USA  
Prof. Michael Atzmon, The University of Michigan, USA  
Prof. Gary S. Was, University of Michigan, USA  
Prof. M. Asscher, The Hebrew University of Jerusalem, Israel  
Prof. Igor Zhitomirsky, McMaster University, Canada  
Prof. Yaroslava G. Yingling, North Carolina State University, USA

To join this technical program, please submit your abstract here: <https://imsnc2019.org/abstractsubmission>

**Note: We are pleased to inform you that our conference has limited funding and we are giving partial support by sponsoring accommodation for invited speakers at our conference venue Park Inn by Radisson Hotel & Conference Centre Bath Road, Heathrow Middlesex UB7 0DU London Heathrow, UK**

We hope you will join us and also take time out to appreciate the beauty of London City and enjoy its hospitality.

If you have any further queries, feel free to contact me. I will be glad to assist you in all possible ways.

**Best Regards,**  
Dr James Michael  
Program Director, Material Science-2019  
Phone: +1-408-352-1010  
E-mail: [info@imsnc2019.org](mailto:info@imsnc2019.org)

**Congratulations — your article is one of the top downloaded!**

Dear Rania Hathout,

We are pleased to let you know that your article, Statins anticancer targeted delivery systems: re-purposing an old molecule, published in *Journal of Pharmacy and Pharmacology*, is one of the journal's top downloaded recent papers!

What this means for you:

- Amongst articles published between January 2017 and December 2018, your paper received some of the most downloads in the 12 months following online publication.
- Your work generated immediate impact and visibility, contributing significantly to the advancement of your field.

In recognition of your work, we're pleased to offer you a certificate of achievement.

[Download your certificate](#)

Thank you for helping to grow the profile of our journal so that work like yours is more discoverable.

Best wishes,  
*Journal of Pharmacy and Pharmacology*



## TOP DOWNLOADED ARTICLE 2017-2018

CONGRATULATIONS TO

**Rania Hathout**

whose paper has been recognized as  
a top 20 most read paper in

**Journal of Pharmacy and Pharmacology**

**WILEY**



Dear Dr. Rania Mohammed Hathout.

It gives us great pleasure to inform you that your talk

Title: Selecting an optimum nose-to-brain natural remedy of Alzheimer disease using bio/chemo-informatics tools.

Authors: Sherweit H. ElAhmady, AbdelKader A. Metwally.

Has been accepted to be presented in our conference, 9<sup>th</sup> International Conference on Mathematics and Information Sciences, 6-8 Feb. 2020, which will be held in Aswan, Egypt.

This conference is supported by African Academy of Sciences, Sohag University, Aswan University, Zewail City of Science and Technology, Egypt, African Mathematical Union, Egyptian Mathematical Society and the National Committee for International Mathematical Union.

The conference will provide the opportunity to showcase research in Engineering, Mathematics, Theoretical Physics and Information Science and technology to engender dialogue and collaboration between international researchers. We will provide you with accommodation, local transportation, registration and social program.

For general information on the conference, participants are advised to visit the Conference site: <http://confs.naturalspublishing.com/icmis2020/>

If you would prefer to receive your invitation letter by fax or mail then please inform us immediately by replying to this e-mail including your fax details.

Prof. Mahmoud Abdel-Aty



Conference's Chairman

Vice-President of African Academy of Sciences

E-mail: [icmisconf2020@gmail.com](mailto:icmisconf2020@gmail.com)

Tel. No. 00201211855997



## Certificate of Recognition

Innovinc International and  
Organizing Committee Members of IMSNC 2019 applaud

Prof/Dr/Mr/Ms. *Rania Hathout*  
Ain Shams University, Egypt

for her phenomenal and worthy Oral presentation on

*Engineering Nanoparticles for the efficient combating of cancer*

at

2<sup>nd</sup> International Conference on **Material Science and Nanotechnology**  
on July 15-17, 2019 at London, UK

*P. Koblinski*

**Pawel Koblinski**  
Rensselaer Polytechnic Institute, USA

*Kenneth F. Kelton*

**Kenneth F. Kelton**  
Washington University in St. Louis, USA





# Certificate

— OF COMPLETION —

On behalf of Frontiers Meetings Ltd, Scientific Organization &  
Journal of Frontiers in Cancer Research & Therapeutics we wish to thank

*Prof/Dr.* **Rania Hathout**

*Ain Shams University, Egypt*

for her phenomenal and worthy Oral Presentation on  
*Nanomedicine + Gene therapy = New horizons*  
*in Breast cancer treatment*  
at the "Global Experts Meeting on  
**Frontiers in Breast Cancer and Therapy**"  
held during July 15-17, 2019 | London, UK



**Kiran E Lukang**  
University of Saskatchewan, Canada



**Shiao-Yih Lin**  
The University of Texas MD Anderson Cancer Center, USA





## شهادة تقدير



أ.م.د. / رانيا محمد حافظ حتحات

أستاذ مساعد بقسم الصيدلانيات والصيدلة الصناعية - كلية الصيدلة

تقديرًا لجهودكم المتميزة ... وعطاءكم المتواصل ومشاركتكم الفعالة  
في دعم مسيرة قطاع شؤون خدمة المجتمع وتنمية البيئة

في مجال البحوث التطبيقية

نائب رئيس الجامعة  
لشؤون خدمة المجتمع وتنمية البيئة

أ.د. نظمي عبد الحميد عبد الغني



أمين عام الجامعة المساعد  
لشؤون خدمة المجتمع وتنمية البيئة

سميل حمزة





## Invitation to join the Scientific Reports Editorial Board

Richard White

to me

Wed, Mar 25, 1:44 PM (8 days ago)

Dear Dr Hathout,

I am writing to invite you to serve as an Editorial Board Member for *Scientific Reports*. Since its launch in 2011, *Scientific Reports* has strived to publish robust, scientifically-valid, original research, led by the same principles of editorial rigour as other Nature Research journals.

As a key opinion leader in your field, I am reaching out because I hope this position is of interest to you. As an Editorial Board Member, you would ensure that scientifically-valid research in your field finds a home in *Scientific Reports*, guide your peers through the editorial process, and enhance your reputation in your research community. You would be responsible for managing the peer review process and deciding whether the paper should be published or not, thereby ensuring validity of the published record and upholding the editorial criteria and ethos of the journal.

To get a better idea of the responsibilities of an Editorial Board Member, the benefits, and a list of Frequently Asked Questions, please have a look at [this document](#).

To let us know whether or not you'd like to join our Editorial Board, please respond by completing [this form](#). Please only reply to this email if you have any questions or concerns; we will be monitoring responses through the response form and will be in touch in the next 1-2 weeks. Please also consider this a personal invitation.

By joining the editorial board of *Scientific Reports*, you are joining the largest open access journal published by Nature Research, the publishers of *Nature*.

I know that the COVID-19 pandemic is causing significant disruption for many researchers, and I understand that you may wish to defer this decision until we return to more normal times.

Yours sincerely

Richard

Dr Richard White  
Chief Editor, Scientific Reports  
Nature Research



ACS  
Chemistry for Life®

AMERICAN CHEMICAL SOCIETY

This is to certify that

**RANIA HATHOUT**

is a Member of the American Chemical Society, entitled  
to all rights and privileges associated therewith as  
specified in the Constitution, By-Laws, and Regulations  
of the Society.

*B. A. Charpentier*

Bonnie A. Charpentier, Ph.D.  
2019 President

*T. M. Connelly, Jr.*

Thomas M. Connelly, Jr.  
Executive Director & CEO

May 20, 2020

Dr. Rania Hathout  
Head of Pharmaceutics Department and Associate Professor of Pharmaceutics,  
Faculty of Pharmacy, Ain Shams University, Cairo, Egypt

**Sub: Invitation to Master's Program Advisory Board Membership, College of Pharmacy, Gulf Medical University**

Dear Dr. Rania Hathout,

Greetings from the College of Pharmacy, Gulf Medical University!

It gives me great pleasure to invite you as a member of the Master of Drug Discovery and Development Program Advisory Board. I am sure your presence on the Board will provide important stakeholder feedback on our students and to the master's curriculum.

We look forward to your acceptance of this invitation and request you to kindly provide us with your short biography and photograph to be circulated among other members.

With best regards,



**Sherief Khalifa, PhD**  
Vice Chancellor for Quality & Global Engagement  
Dean, College of Pharmacy  
Gulf Medical University  
Tel: +971 6 7431333 Ext. 1301  
Email: [sherief@gmu.ac.ae](mailto:sherief@gmu.ac.ae) Web: [www.gmu.ac.ae](http://www.gmu.ac.ae)

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◀ 1 of 1 ▶

## Exploring the use of nanocarrier systems to deliver the magical molecule; Curcumin and its derivatives

By: Mehanny, M (Mehanny, Mina)<sup>[1]</sup>; Hathout, RM (Hathout, Rania M.)<sup>[1]</sup>; Geneidi, AS (Geneidi, Ahmed S.)<sup>[1]</sup>; Mansour, S (Mansour, Samar)<sup>[1,2]</sup>

[View Web of Science ResearcherID and ORCID](#)

JOURNAL OF CONTROLLED RELEASE

Volume: 225 Pages: 1-30

DOI: 10.1016/j.jconrel.2016.01.018

Published: MAR 10 2016

Document Type: Review

[View Journal Impact](#)

### Abstract

Curcumin and its derivatives; curcuminoids have been proven as potential remedies in different diseases. However, their delivery owing to their poor aqueous solubility, photodegradation, chemical instability, poor bioavailability and rapid metabolism. This review discusses the numerous attempts that were adopted through the years to entrap/encapsulate this valuable drug in nanocarriers aiming to reach its most appropriate and successful delivery system. (C) 2016 Elsevier B.V. All rights reserved.

### Citation Network

In Web of Science Core Collection

88

 Highly Cited Paper

 As of March/April 2020, this **highly cited paper** received enough citations to place it in the top 1% of the academic field of Pharmacology & Toxicology based on a highly cited threshold for the field and publication year.

Data from *Essential Science Indicators*

[Close Window](#)

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## [Pharmaceutics] (IF 4.421, ISSN 1999-4923) Invitation to Join the Editorial Board as Topic Editor

1 message

Pharmaceutics Editorial Office <pharmaceutics@mdpi.com>

Tue, Oct 20, 2020 at 8:39 AM

Reply-To: candice.zhao@mdpi.com

To: Rania Hathout <rania.hathout@pharma.asu.edu.eg>

Cc: Pharmaceutics Editorial Office <pharmaceutics@mdpi.com>, Candice Zhao <candice.zhao@mdpi.com>

Dear Professor Hathout,

Based on your publication record, we would like to invite you to serve as the Topic Editor of Pharmaceutics (<https://www.mdpi.com/journal/pharmaceutics>), an open access journal focusing on the science and technology of pharmaceutics and biopharmaceutics (ISSN 1999-4923). This journal is indexed by SCIE (IF 4.421, ranks Q1 in the category of Pharmacology & Pharmacy) and is also a member of DOAJ.

As the Topic Editor, you would be responsible for:

1. Suggesting new topics, and recommending or inviting some experts to serve as the Guest Editor of these new topics;
2. Reviewing or providing suggestions for papers which fit for your interests.

On the other hand, you will enjoy the following privileges:

1. The possibility to publish one paper for free, per year, in a Special Issues on a topic that you recommended for Pharmaceutics, and to offer 15% discounts to contributions from your invitation;
2. Travel grants of 300–500 CHF per year if you co-lead a new Special Issue and would like to promote it at conferences that you attend or organize;
3. Pharmaceutics offer additional sponsorships to conferences organized by Topic Editors.

The term for the Editorial Board position is 2 years and can be renewed.

In case any queries, please don't hesitate to contact us. We look forward to hearing from you and hope to have you on board.

Best wishes,

Ms. Candice Zhao

Assistant Editor

E-Mail: [candice.zhao@mdpi.com](mailto:candice.zhao@mdpi.com)

—

MDPI Branch Office, Wuhan

Pharmaceutics Editorial Office

E-Mail: [pharmaceutics@mdpi.com](mailto:pharmaceutics@mdpi.com)

<http://www.mdpi.com/journal/pharmaceutics/>

Twitter: <https://twitter.com/MDPIpharma>

LinkedIn: <https://www.linkedin.com/in/mdpipharmaceutics/>

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## [Biomedicines] (IF 4.717, ISSN 2227-9059) Invitation to Join the Editorial Board as Topic Editor ▸ Inbox x

Biomedicines Editorial Office <biomedicines@mdpi.com>

to me, Biomedicines, Carey ▾

Mon, Mar 1, 11:52 AM

Dear Dr. Hathout,

Given your impressive expertise, we would like to invite you, on behalf of the Editor-in-Chief, to join the Editorial Board of **Biomedicines** as our Topic Editor: <https://www.mdpi.com/journal/biomedicines>.

Please click on the following link to either accept or decline our request:  
[https://susy.mdpi.com/user/ebm\\_pending/invitation/689334/kFti6ahC4ZpY](https://susy.mdpi.com/user/ebm_pending/invitation/689334/kFti6ahC4ZpY)

**Biomedicines** (2227-9059) is an international peer-reviewed open access journal published by MDPI. A Topic Editor's main task is to lead Special Issues related to your research field periodically (every one or two years). You could also suggest new topics, and recommend or invite some other scholars to be Guest Editors for these new topics.

You will have the opportunity to publish a paper free of charge in your Special Issue, and can also publish extra papers with special discounts.

Please note that the position is honorary. The term for the Editorial Board membership is two years and can then be renewed. We would be grateful if you can let us know if you will accept this offer within one week. If you agree to take on the position, please send us your research keywords.

Please feel free to contact us if you need more information. Thank you for your consideration and we look forward to hearing from you.

Carey Gao

Assistant Editor

Section Managing Editor

Skype: live:873ee9e43f5cb2aa

E-Mail: [carey.gao@mdpi.com](mailto:carey.gao@mdpi.com)





(٧-١٣): إحاطة أعضاء المجلس علماً بتحديد موعد عقد امتحان مقرر "حقوق الإنسان" لطلاب المستوى الثاني ببرنامج بكالوريوس الصيدلة (التصميم الدوائي) يوم الاثنين الموافق ٢٠١٩/١/١٣ تحت إشراف أ.د/أميرة مبروك القصاص – أستاذ الكيمياء التحليلية الصيدلانية بالكلية.

القرار :-

– أحيط المجلس علماً.

(٧-١٤): إحاطة أعضاء المجلس علماً بانتداب السيد د/ علاء عصمت محمد – خبير تسويق وشؤون قانونية لتدريس مقرر قانون الصيدلة ببرنامج بكالوريوس الصيدلة (التصميم الدوائي) للفصل الدراسي الثاني للعام الجامعي ٢٠٢٠/٢٠١٩ ، وذلك بناءً على موافقة مجلس قسم الصيدلانيات والصيدلة الصناعية المنعقد في ٢٠١٩/١٢/٩.

القرار :-

– أحيط المجلس علماً.

(٧-١٥): إحاطة أعضاء المجلس علماً بقيام القائمين بالتدريس في مقرر تأكيد الجودة (٢) ببرنامج التصميم الدوائي للفصل الدراسي الأول للعام الجامعي ٢٠٢٠/٢٠١٩ بعمل ورشتي عمل في موضوع الـ Quality by design الخاص بالمقرر كنشاط علمي مساعد على تطوير المقرر علماً بأنه قد تم إدراج الموضوع بمجلس قسم الصيدلانيات والصيدلة الصناعية المنعقد في ٢٠١٩/١٢/٩.

القرار :-

– أحيط المجلس علماً.



ثامناً: خدمة المجتمع وتنمية البيئة :-

«بشأن النظر في الموافقة على التوصيات والإحاطات المدرجة ضمن موضوعات لجنة خدمة المجتمع وتنمية البيئة بالكلية الآتية:



(١٦-٦): عمل نشاط علمي للطلاب في صورة سيمينارات علميه أسبوعيه بعنوان:

### "Pharmaceutics For Industry Integrated Module (PIM)"

بناءً على الطلب المقدم من أ.م.د/ رانيا محمد حتوت - القائم بعمل رئيس قسم الصيدلانيات والصيدلة الصناعية وموافقة مجلس قسم الصيدلانيات والصيدلة الصناعية المنعقد في ٢٠١٩/١٠/١٤.

#### القرار :-

- الموافقة ، وعلى إدارة شؤون التعليم والطلاب اتخاذ الإجراءات النظامية نحو تنفيذ قرار مجلس الكلية.

سابعاً: برنامج بكالوريوس الصيدلة (التصميم الدوائي) بفتح (المهاجر العنصر): -

■ بشأن النظر في الموافقة على التوصيات والإحاطات المدرجة ضمن موضوعات لجنة برنامج بكالوريوس الصيدلة (التصميم الدوائي) بنظام الساعات المعتمدة الآتية:

(١-٧): اعتماد جدول منتصف الفصل الدراسي الأول (Midterm) للعام الجامعي ٢٠٢٠/٢٠١٩.

#### القرار :-

- الموافقة ، وعلى إدارة البرنامج اتخاذ الإجراءات النظامية نحو تنفيذ قرار مجلس الكلية.

(٢-٧): اعتماد المقاصص الخاصة بالطلاب/يوسف أيمن عبدالقادر - المحول من كلية الصيدلة - جامعة حلوان بالمستوى الثالث إلى برنامج بكالوريوس الصيدلة (Pharm D) (الصيدلة الإكلينيكية) بالكلية للعام الجامعي ٢٠٢٠/٢٠١٩.

#### القرار :-

- الموافقة ، وعلى إدارة البرنامج اتخاذ الإجراءات النظامية نحو تنفيذ قرار مجلس الكلية.

(٣-٧): اعتماد المقاصص الخاصة بالطلاب المحولين من طلاب بكالوريوس الصيدلة بالكلية إلى برنامج بكالوريوس الصيدلة (الصيدلة الإكلينيكية) بالكلية للعام الجامعي ٢٠٢٠/٢٠١٩، وبياناتهم كالتالي:

م	الاسم	الكلية المحول منها الطالب	المستوى المنقول إليه الطالب
١	محمد أحمد فؤاد حسن العيسوي	كلية الصيدلة - جامعة عين شمس	ثالث
٢	اسماء حسنى على زين العابدين	كلية الصيدلة - جامعة عين شمس	ثاني
٣	ولاء حافظ محمد عطية	كلية الصيدلة - جامعة عين شمس	الثاني
٤	محمد أسامة مصطفى حسن عباس	كلية الصيدلة - جامعة عين شمس	ثالث
٥	مرام أسامة حمدي	كلية الصيدلة - جامعة عين شمس	الثاني
٦	يوسف أيمن عبد القادر	كلية الصيدلة - جامعة حلوان	ثالث
٧	جهاد خالد عبد المعز شعراوي	كلية الصيدلة - جامعة الشارقة	ثالث

#### القرار :-

- الموافقة ، وعلى إدارة البرنامج اتخاذ الإجراءات النظامية نحو تنفيذ قرار مجلس الكلية.

٢٠١٩/١٠/٣٠

١١

مجلس الكلية رقم ٢

أولاً، المساعدة علي محضر الجلسة المأهولة بتاريخ ٢٠١١/١٠/٣٠.

ثانياً، متابعة تنفيذ قرارات مجلس الكلية السابق بتاريخ ٢٠١١/١٠/٣٠.

ثالثاً، - موضوعات عامة:-

(٣-١): النظر في المقترح المقدم من د/ شيروت حامد الأحمدى . المدرس بقسم العقاقير و د/ رانيا حنحو . المدرس بقسم الصيدلانيات والصيدلة الصناعية ، و د/ دينا سامي لاشين المدرس بقسم الكيمياء الصيدلانية لتنظيم برنامج ندوة علمية أسبوعية لجميع أعضاء هيئة التدريس والهيئة المعاونة وطلاب الكلية علي مستوي الأقسام العلمية تحت مسمى (PSP) " Purely Science for Pleasure" علي أن:



٣



جامعة أسيوط  
إدارة تطوير التعليم  
الوحدة المركزية للتعليم الإلكتروني

## شهادة حضور

### دورة تدريبية

تشهد إدارة تطوير التعليم بالجامعة بحضور:

**رانيا محمد حافظ حنحو**

دورة تدريبية لاستخدام نظام التعلم الإلكتروني (Moodle)

التي نظمها الوحدة المركزية للتعليم الإلكتروني  
وذلك يومي ١٦ أكتوبر ٢٠٢٠ و ١٧ أكتوبر ٢٠٢٠

مدير إدارة تطوير التعليم  
أ.د/ منى عبد العال





مدير الوحدة المركزية  
للتعليم الإلكتروني  
د/ داليا أحمد يوسف  
داليا يوسف

ثامناً :- شكره والتقدير :-

« بشأن النظر في الموافقة على التوصيات والإحاطات المدرجة ضمن موضوعات لجنة شئون التعليم والطلاب بالكلية الآتية:  
(١-٥): اعتماد تشكيل الكنترولات بالفصل الدراسي الثاني لجميع الفرق الدراسية بالكلية للعام الجامعي ٢٠٢٠/٢٠١٩.

القرار :-

— الموافقة ، وعلى إدارة شئون التعليم والطلاب اتخاذ الإجراءات النظامية نحو تنفيذ قرار مجلس الكلية.

(٢-٥): اعتماد تشكيل لجان الممتحنين لجميع الفرق الدراسية بالكلية للعام الجامعي ٢٠٢٠/٢٠١٩.

القرار :-

— الموافقة ، وعلى إدارة شئون التعليم والطلاب اتخاذ الإجراءات النظامية نحو تنفيذ قرار مجلس الكلية.

(٣-٥): اعتماد نتيجة المتقدمين لامتحان مادة (قانون الصيدلة) لمعادلة درجة البكالوريوس الحاصلين عليها من جامعات مختلفة (دور فبراير) للعام الجامعي ٢٠٢٠/٢٠١٩، وبيناتهم كالتالي:

م	اسم الطالب	درجة الامتحان
١	ريهام وليد محمود سليمان	٤٢
٢	ساندي أشرف منير نبيه	٣٩
٣	سمير أحمد أحمد سليمان	٤٣
٤	مونیکا ممدوح مجاهد سرايتال	٤٦
٥	محمد قدرى كامل عبدالمنعم المسيري	غائب

القرار :-

— الموافقة ، وعلى إدارة شئون التعليم والطلاب اتخاذ الإجراءات النظامية نحو تنفيذ قرار مجلس الكلية.

(٤-٥): تحديد رسوم تسجيل المقررات بالفصل الدراسي الصيفي لبرنامج بكالوريوس الصيدلة - فارم دي.

القرار :-

— الموافقة ، وعلى إدارة شئون التعليم والطلاب اتخاذ الإجراءات النظامية نحو تنفيذ قرار مجلس الكلية.

(٥-٥): إحاطة أعضاء المجلس علماً بقيام أ.م.د/ رانيا محمد حافظ تحتوت — أستاذ مساعد وقائم بعمل رئيس مجلس قسم الصيدلانيات والصيدلة الصناعية بعقد ورشة عمل بعنوان:

**"Quality by Design and Data Analysis"**

كمنشأ تفاعلي وتطبيقي مساعد لتطوير وتحديث مقرر أساليب التصنيع الدوائي ببرنامج بكالوريوس العلوم الصيدلانية وذلك بناءً على موافقة مجلس قسم الصيدلانيات والصيدلة الصناعية المنعقد في ٢٠٢٠/٣/٩.

القرار :-

— أحيط المجلس علماً.

٢٠٢٠/٣/٣٠

رئيسة اللجنة  
أ.م.د/ رانيا محمد حافظ  
٢٠٢٠/٣/٣٠

مجلس الكلية رقم ٧



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#### TO WHOM IT MAY CONCERN

I have had the chance to work with Prof.Dr. Rania Hathout on the Springer-Nature book "Computer-aided Pharmaceutics and Drug Delivery". I have recognized Rania as an expert in the field with more than 61 publications in pharmaceutics and almost 20 of them in highly prestigious journals in the field of computer-aided drug formulation/delivery and Pharmaceutics Informatics. I consider her the pioneer of the school of Computer-aided drug delivery in Egypt that include the application of Pharmaceutics Informatics, artificial intelligence and machine learning methods and quality by design in drug delivery and technology. Rania has an article that was selected by the ACS Omega (American Chemical Society) as one of the best articles in Africa-2020 and to be featured in its special Virtual Issue "Chemistry in Africa: Open & Global". This Virtual Issue was led by a guest-editorial co-written by Elizabeth Marincola, Senior Advisor for Communications and Advocacy at the African Academy of Sciences, and Thomas Kariuki, Director of programs at the African Academy of Sciences. Both are well-renowned advocates for African research and Open Science. The Virtual Issue showcased a topically diverse collection of high-quality work that spanned the Continent. It provided a glimpse of the richness of African-based research in chemistry and interfacing areas of science. This encouraged me as an editor of the book: "Computer-aided Pharmaceutics and Drug Delivery" of the prestigious Springer Nature publisher to invite her to write three chapters in the books in order to explain the concepts of this new approach to undergraduate and postgraduate students. I have also got to know that Rania has implemented novel courses such as "Quality by Design" and "Computer-aided Pharmaceutical Technology" and "Computer-aided dosage form design" in undergraduate and postgraduate pharmaceutical courses in Ain Shams University and the British University in Egypt and this demonstrates Rania's high keenness to cater the need of students, both graduate and postgraduate, and researchers of pharmaceutical sciences and her always main aim was to provide them with a guide in their researches and project works.

I have also recognized from her list of publications, conferences and societies memberships that she has contributed significantly to the Pharmaceutics and Drug delivery field and that that her research is highly advanced especially in the field of Green chemistry, nanomedicine and natural products and therefore commits to the United Nations Sustainable Development Goals.

I find Rania as an enthusiastic scientist with an impressive skill set, who never loses focus on the project. During the project, she managed to perform a considerable amount of high-quality work and successfully overcame several challenges. She has a highly committed attitude and is very sincere in her approach of serving science and people. I look at our collaboration as one that can continue in the future to conduction of more fruitful scientific projects.



VIKAS ANAND (SAHARAN)

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Mobile: +918439820796  
Phone: +91-135-2686246, Extn: 227

Dr Elena Nikolskaya  
4 Kosygina st.  
Moscow, 119334  
Russia

To whom it may concern,

I hereby confirm that Dr Rania Hathout is currently collaborating with the Laboratory of quantitative oncology at Institute of Biochemical Physics which is a part of the Russian Academy of Science in a project entitled «Highly efficient delivery of carboplatin derivatives into tumor cells» due to her expertise in nanomedicine and computer-aided pharmaceuticals and drug delivery.

Sincerely,

A handwritten signature in blue ink, appearing to be 'E. Nikolskaya', with a stylized flourish at the end.

Dr Elena Nikolskaya  
Head of the Group  
Laboratory of Quantitative Oncology  
Institute of Biochemical Physics, RAS

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**Dear Rania Hathout**

Many thanks for your recent application to the Study UK Alumni Awards 2021-22.

We are delighted to let you know that you have been selected as a finalist for the Science and Sustainability Award Egypt - congratulations!

As mentioned during the application process, each finalist is kindly requested to provide:

- A reference from a client or someone you work with. This can be an email. It doesn't have to be a formal letter – just so long as it contains your referee's name and contact details.
- A copy of your up-to-date resume/CV/proof of studies

Please also provide us with 10-15 Images, a short bio, your social media accounts, and the consent form, as outlined below.

We would be grateful if you could forward us this before **Sunday 6th February 2022 at 12:00 am.**

Please find below the details of the award ceremony so that you can save the date. This is an exclusive event where we will be celebrating the achievements of all finalists with our high-profile guests and announcing the award winners of each award category. We will send your official invitation by email shortly, for you plus one guest. Please note that this is conditioned on your UK university supporting your application, in case they didn't verify your certificate, you will not be able to take part in the ceremony.

Award ceremony date: Tuesday 22<sup>nd</sup> February 2022

Venue and address: British Embassy

Time: 7:00 pm

Dress code: Formal

RSVP to: [Marwa.AbdelAzim@britishcouncil.org.eg](mailto:Marwa.AbdelAzim@britishcouncil.org.eg)

RSVP before: 15<sup>th</sup> February 2022

Also, please confirm the name, job title, and organization of your guest.

So that we can prepare the event program with your most updated details, and an award ceremony film featuring all finalists, please provide us with the following at your earliest convenience, and before **Sunday 6th February 2022 at 12:00 am.**

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## Rania M. Hathout

Egypt

### Author's Graphs

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**69**  
papers

(top 3%, rank 124,981)  
**2,158**  
citations

(top 3%, rank 67,681)  
**29**  
h-index

**7**  
rankings

(top 3%)  
**72**  
extended papers

(top 3%, rank 124,981)  
**2,343**  
extended citations

(top 3%, rank 69,581)  
**30**  
extended h-index

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- 1st most cited paper in *APPS PharmSciTech* (2007)
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#### What are extended values?

extended values cover books and conference papers too. The other values are limited to peer-reviewed articles only. However, we never count abstracts, patents, working papers, or unpublished documents.

Top superscripts indicate the percentile among 4.9 million authors. rank refers to the rank rounded to 1,000 (K) or 1,000,000 (M).

rankings refers to the number of categories in which the author has been ranked.

#### What is the basis of rankings?

most cited author: sum of citations of the author

most cited paper: citations of a single paper

most published author: the number of papers

#### Is everything ranked?

To avoid high rankings for small journals, certain thresholds should be met for inclusion.