

PERSONAL INFORMATION

Prof. Emad Basalious Bashir Basalious
الأستاذ الدكتور/ عماد بساليوس بشير بساليوس

Prof. of Pharmaceutics and Industrial Pharmacy 10/2017
أستاذ الصيدلانيات والصيدلة الصناعية بكلية الصيدلة، جامعة القاهرة ٢٠١٧م

NODCAR Chairman 10/2019 to 30/09/2020
رئيس مجلس إدارة الهيئة القومية للرقابة والبحوث الدوائية ٢٠١٩/٢٠٢٠م

Faculty of Pharmacy, Cairo University
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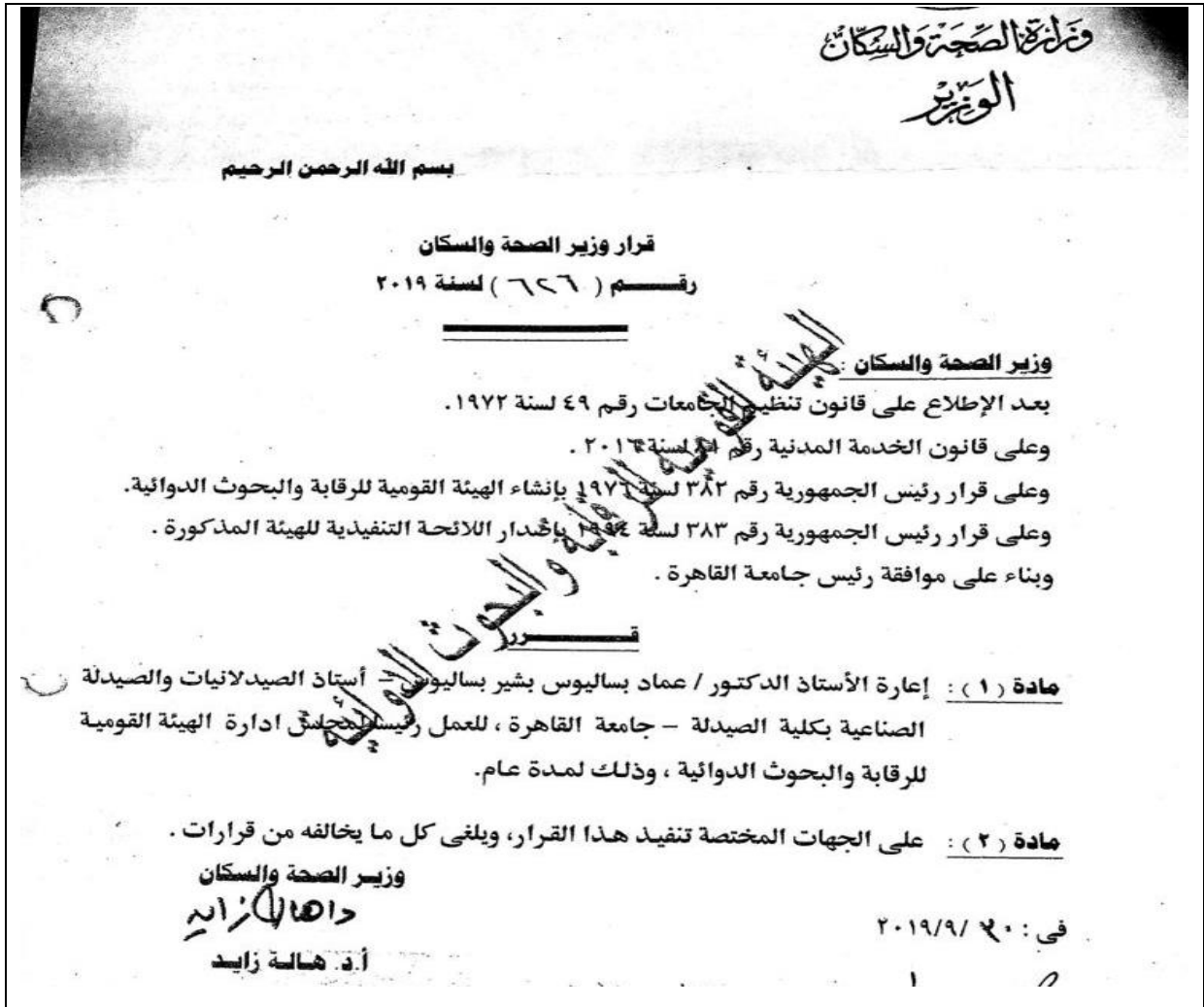
Website <https://scholar.cu.edu.eg/?q=ebb/>



Career History and Professional Experience

التدرج الوظيفي

Oct. 1 st , 2019 to Sept. 2020	Chairman of the Board of Directors of the National Organization for Drug Control and Research (NODCAR), Ministry of Health (MOH) and Egyptian Drug Authority (EDA) http://www.nodcar.eg.net/main/?page_id=218 رئيس مجلس إدارة الهيئة القومية للرقابة والبحوث الدوائية
March 2021- to-date	Member of the Board of Directors of the Center for Applied Research and Advanced Studies (CARAS), Faculty of Pharmacy, Cairo University عضو بمجلس إدارة مركز البحوث التطبيقية والدراسات المتقدمة بكلية الصيدلة، جامعة القاهرة
Nov. 2019 - Sept. 2020	Member of the Faculty of Pharmacy, Futures University, Supreme Council عضو مجلس إدارة كلية الصيدلة جامعة المستقبل - مصر
Since Oct. 2017	Prof. of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, Cairo Univ. https://www.pharma.cu.edu.eg/English/AboutFaculty/StaffPos.aspx أستاذ الصيدلانيات والصيدلة الصناعية بقسم الصيدلانيات بكلية الصيدلة - ج القاهرة
July 2012 - Oct. 2017	Faculty of Pharmacy, CU Associate Prof. of Pharmaceutics and Industrial Pharmacy, أستاذ مساعد الصيدلانيات والصيدلة الصناعية بكلية الصيدلة، ج القاهرة
March 2007 - July 2012	Lecturer of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, CU مدرس بقسم الصيدلانيات والصيدلة الصناعية بكلية الصيدلة - جامعة القاهرة
Sept. 2007 - Jan. 2009	Lecturer of Pharmaceutics, Department of Pharmaceutical Technology, Faculty of Pharmacy, Misr International University (MIU). مدرس بقسم التكنولوجيا الصيدلانية بكلية الصيدلة - جامعة مصر الدولية
Sept. 2003 - March 2007	TA at the Pharmaceutics Dept., Faculty of Pharmacy, Cairo University, Egypt مدرس مساعد بقسم الصيدلانيات والصيدلة الصناعية بكلية الصيدلة - جامعة القاهرة
Dec. 1997 – Sept. 2003	Demonstrator at the Pharmaceutics Dept., Faculty of Pharmacy, Cairo University معيد بقسم الصيدلانيات والصيدلة الصناعية بكلية الصيدلة - جامعة القاهرة



Education

التدرج العلمي

- **May 1997;**
Bachelor B.Sc., Pharmaceutical Sciences,
With graduation degree Excellent with Honor,
Faculty of Pharmacy, Cairo University, Cairo, Egypt.
بكالوريوس العلوم الصيدلانية من كلية الصيدلة - جامعة القاهرة (دور مايو ١٩٩٧م) تقدير ممتاز مع مرتبة الشرف
- **September 2003;**
Obtained Master Degree in Pharmaceutical Sciences,
Thesis Title: **Bioadhesive Systems as Platform for External and Internal Therapy,**
Pharmaceutics and Industrial Pharmacy Dept., Faculty of Pharmacy, Cairo University,
Cairo, Egypt.
درجة الماجستير في العلوم الصيدلانية (تخصص صيدلانيات) من كلية الصيدلة - جامعة القاهرة في ٢٠٠٣/٨/٢م
- **March 2007;**
Obtained Ph.D. in Pharmaceutical Sciences,
Thesis Title: **Formulation and Evaluation of Adhesive Antifungal Delivery Systems,**
Pharmaceutics and Industrial Pharmacy Dept., Faculty of Pharmacy, Cairo University,
Cairo, Egypt.
درجة دكتوراه الفلسفة في العلوم الصيدلانية (تخصص صيدلانيات) من كلية الصيدلة - جامعة القاهرة في ٢٠٠٧/٣/٨م

Regulatory and Pharmaceutical Industry Professional Experience

الخبرة الفنية في مجال الصناعة الدوائية والعمل الرقابي

July 2021 to-date	Gypto Pharma Product Development Consultant مستشار تطوير المستحضرات بمدينة الدواء المصرية
June 2010- Sept. 2019	Technical & R&D director of Marcyrl for Pharmaceutical Industry مدير فني بشركة ماركيرل للصناعات الدوائية
Nov. 2020- to-date	Technical Director at Advanced Research Center (ARC) performing the bioequivalence studies of locally produced pharmaceutical products مدير فني لمركز الابحاث المتقدمة للإشراف على دراسات التكافؤ الحيوي للمستحضرات الصيدلانية المنتجة محليا
2009- to-date	Scientific Consultant at the Center for Applied Research and Advanced Studies (CARAS), Faculty of Pharmacy, Cairo University, to supervise the bioequivalence studies of locally produced pharmaceutical preparations مستشارا علميا لمركز البحوث التطبيقية والدراسات المتقدمة بكلية الصيدلة ج القاهرة، للإشراف على دراسات التكافؤ الحيوي للمستحضرات الصيدلانية المنتجة محليا
Oct. 2019 - Sept. 2020	Member of the Supreme Committee for the Pharmaceutical Inspection of Drug Factories by the Central Department of Pharmaceutical Affairs (CAPA), Ministry of Health عضو اللجنة العليا للتفتيش الصيدلي- الإدارة المركزية لشئون الصيدلة وزارة الصحة
2018 – Sept. 2020	Internal Committee Member for evaluating the Stability of Imported Medicines (Reference Countries), affiliated by CAPA, Ministry of Health عضو لجنة تقييم دراسات الثبات للأدوية المستوردة من دول مرجعية بالإدارة المركزية لشئون الصيدلة
Sept. 2019- To-date	Quality Committee Member to evaluate the CTD files of CAPA, Ministry of Health عضو لجنة تقييم ملفات الجودة بالإدارة المركزية لشئون الصيدلة - وزارة الصحة
Oct. 2019 - Sept. 2020	Technical Committee Member , CAPA, Ministry of Health عضو اللجنة الفنية - الإدارة المركزية لشئون الصيدلة - وزارة الصحة
2008- To-date	Stability Committee Member , CAPA, Ministry of Health عضو لجنة تقييم دراسات الثبات، الإدارة المركزية لشئون الصيدلة - وزارة الصحة
2010- To-date	Variations of Pharmaceutical Products Committee Member , CAPA, Ministry of Health عضو لجنة المتغيرات، الإدارة المركزية لشئون الصيدلة - وزارة الصحة
2018-to- Sept. 2020	Member of the CAPA New Drug Development Committee, Ministry of Health عضو لجنة تطوير الدواء - الإدارة المركزية لشئون الصيدلة - وزارة الصحة
2017	Member of the working group of Drug Research Council by the Academy of Scientific Research and Technology (ASRT) to prepare a road map for the production of active and inactive pharmaceutical ingredients in Egypt عضو بمجموعة العمل التابعة لمجلس بحوث الدواء التابع لأكاديمية البحث العلمي والتكنولوجيا لإعداد خارطة طريق لإنتاج الخامات الدوائية الفعالة وغير الفعالة في مصر
2016 - Sept. 2019	Lecturer Trainer to train pharmacists working in companies affiliated to the Holding Company for pharmaceutical industries, Cairo, Egypt مدرب معتمد لصيدلة مصانع الشركة القابضة لتصنيع الأدوية - مصر
2011- August 2019	Technical Director at the Advanced Research Center (ARC) performing the bioequivalence studies of locally produced pharmaceutical products مستشارا فنيا لمركز الابحاث المتقدمة، للإشراف على دراسات التكافؤ الحيوي للمستحضرات الصيدلانية المنتجة محليا
2008 – 2014	Technical and R&D Director for ATCO Pharma supervising the development of new local pharmaceutical products مدير فني لشركة أنكو فارما للإشراف على تطوير المستحضرات الصيدلانية الجديدة محلية الصنع

Activities Serving Pharmaceutical Industry and Regulatory Authority

النشاط المجتمعي لخدمة صناعة الدواء المحلية والرقابة الدوائية

1- Participation in Improvement of National Pharmaceutical Industry

1- المساهمة في رفع كفاءة صناعة الدواء الوطنية

<p>1. Gypto Pharma Scientific and Technical Consultant.</p> <p>2. Member of the working group of Drug Research Council of the Academy of Scientific Research and Technology to prepare a road map for the production of active and inactive pharmaceutical ingredients in Egypt.</p> <p>3. Team work member assigned by CAPA to assess the situation of the Holding Company for local pharmaceutical factories and to develop a corrective action plan to work to raise their efficiency.</p> <p>4. The development of new vaginal suppositories with creams (VRCS) bases for the hormone progesterone that are rapidly disintegrating and remain attached to the vaginal wall to improve the satisfaction of pregnant women, by Marcyrl Egypt.</p> <p>5. Participating in formulating and developing pharmaceutical preparations for several national companies, such as products that contain antiviral drugs such as sofopovir, daklatasvir and lidepsavir.</p> <p>6. Training Lecturer for pharmacists working at national and holding companies of pharmaceutical industries.</p> <p>7. Scientific consultant to the Center for Applied Research and Advanced Studies (CARAS), Faculty of Pharmacy, Cairo University, to supervise the bioequivalence studies of locally produced pharmaceutical preparations</p>	<p>1. مستشارا علميا فنيا بمدينة الدواء المصرية</p> <p>2. عضوية مجموعة العمل التابعة لمجلس بحوث الدواء التابع لأكاديمية البحث العلمي والتكنولوجيا لإعداد خارطة طريق لإنتاج الخامات الدوائية الفعالة وغير الفعالة في مصر عام ٢٠١٧م.</p> <p>3. عضو ضمن فريق العمل المكلف من الإدارة المركزية لشئون الصيدلة - وزارة الصحة المصرية بتقييم وضع مصانع الشركة القابضة للأدوية ووضع خطة تصحيحية للعمل على رفع كفاءتها.</p> <p>4. تطوير تحاميل مهبلية جديدة ذات قواعد كريمة (VRCS) لعقار هرمون البروجسترون تكون سريعة التفكك وتبقي ملازمة لجدار المهبل لتحسين رضا السيدات الحوامل. وقد تم تصنيع هذا المستحضر لشركة ماركيرل للصناعات الدوائية وتسويقه بالسوق المصري (Prontogest suppository) واثبت نجاح وفعالية عالية.</p> <p>5. المشاركة في صياغة وتطوير مستحضرات صيدلوية لصالح الشركة القابضة للأبحاث والتطوير وعدة شركات وطنية مثل المستحضرات التي تحتوي على مضادات فيروس سي مثل السوفوبوفير والداكلاتسافير والليديبسافير.</p> <p>6. محاضر لتدريب الصيادلة العاملين في الشركات التابعة للشركة القابضة للأدوية من ٢٠١٦م حتى الآن.</p> <p>7. مستشارا علميا لمركز البحوث التطبيقية والدراسات المتقدمة (CARAS) بكلية الصيدلة جامعة القاهرة منذ ٢٠٠٩م الى الآن للإشراف على دراسات التكافؤ الحيوي للمستحضرات الصيدلوية المنتجة محليا.</p>
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2- Development of Several Egyptian Regulatory Guidelines

2- تطوير القواعد الرقابية المصرية المختلفة

1. Development of Egyptian Common Technical Document CTD guidelines for pharmaceutical products to facilitate their exportation.	1. المشاركة في إعداد "القواعد المصرية لتجهيز ملفات ال CTD للمستحضرات الصيدلانية المصنعة بمصر" لضمان سهولة تصديرها الى الخارج.
2. Development of the "Method Development and Validation (MDV) Reference Lab". http://www.nodcar.eg.net/main	2. تطوير المعمل المرجعي بهيئة الدواء المصرية لتطوير طرق التحليل تحت رعاية السيد الأستاذ الدكتور / رئيس هيئة الدواء المصرية
3. Preparation of "Egyptian Guidelines for Evaluation of Stability Studies and Variations of Pharmaceutical Products" to be registered.	3. المشاركة في إعداد "القواعد المصرية لتقييم دراسات الثبات والمتغيرات" الخاصة بالمستحضرات الصيدلانية التي يتم تسجيلها بوزارة الصحة المصرية.
4. Preparation of "Mechanisms for Sampling, Files Evaluation and Analysis" at NODCAR.	4. إعداد "آليات سحب العينات وتقييم الملفات والتحليل" بالهيئة القومية للرقابة والبحوث الدوائية.

3- Work and Participation in Egyptian Regulatory Authorities

3- المشاركة والعمل مع الجهات الرقابية المصرية

1- Chairman of NODCAR, http://www.nodcar.eg.net/main/?page_id=218	1. رئيس مجلس إدارة الهيئة القومية للرقابة والبحوث الدوائية منذ ٢٠١٩/١٠/١م حتى ٢٠٢٠/٩/٣٠م
2- Member of the Technical Committee, CAPA, MOH	2. عضو اللجنة الفنية التابعة للإدارة المركزية للشئون الصيدلانية- وزارة الصحة
3- Member of Supreme committee of pharmaceutical inspection on factories, MOH.	3. عضو اللجنة العليا للتفتيش الصيدلي على مصانع الادوية التابعة للإدارة المركزية للشئون الصيدلانية- وزارة الصحة
4- Member of Stability committee for evaluation of stability studies of pharmaceutical products, MOH	4. عضو لجنة الثبات لتقييم دراسات الثبات التابعة للإدارة المركزية للشئون الصيدلانية- وزارة الصحة من ٢٠٠٨م الى الان،
5- Member of variation committee of pharmaceutical products, MOH	5. عضو لجنة المتغيرات التابعة للإدارة المركزية للشئون الصيدلانية- وزارة الصحة من ٢٠١٠م
6- Member of New Drug development committee, CAPA, MOH	6. عضو لجنة New drug development التابعة للإدارة المركزية للشئون الصيدلانية- وزارة الصحة ٢٠١٨م.
7- Member of stability committee of imported products, CAPA, MOH	7. عضو اللجنة الداخلية للثبات المستورد (بلاد مرجعية) التابعة للإدارة المركزية للشئون الصيدلانية- وزارة الصحة.
8- Member of quality committee for evaluation of Common Technical Document CTD files of pharmaceutical products, CAPA, MOH.	8. عضو لجنة الجودة لتقييم ملفات CTD التابعة للإدارة المركزية للشئون الصيدلانية- وزارة الصحة.

4- Educational/Training Lecturer Serving National Pharmaceutical Industry

4- إلقاء محاضرات تعليمية لخدمة صناعة الدواء الوطنية

- 4.1. "The WHO Emergency Use Listing (EUL) and FDA Emergency Use Authorization (EUA) are Decision Tools to Conduct a Risk-Benefit Assessment of Unlicensed Vaccines During Public Health Emergencies" Faculty of Pharmacy, CU, 10th International Scientific Conference, July 6th 2021; Reshaping Pharma Sustainability and Innovation for Better Pandemic Response,

<https://www.pharma.cu.edu.eg/English/NewsEvents/Conferences/2021/Speaker.aspx>

- 4.2. "Guidance for organizations performing *in vivo* bioequivalence studies WHO, TRS 996, Annex 9", ARC, June 2021.
- 4.3. 10-days training course at NODCAR, for pharmaceutical factories on "How to Develop Pharmaceutical Products and How to Prepare CTD file; Common Technical Document", NODCAR, Oct. 2019-2020. تدريب صيدلة المصانع بهيئة الرقابة والبحوث الدوائية
- 4.4. 10-days training course at NODCAR, for pharmaceutical factories on "Overview of the New Egyptian Guidelines of CTD", NODCAR, October, 2019.
- 4.5. "Optimization of the regulatory review of CTD module 2 Quality Overall Summary (QoS) and module 3 (Body of Data) (P-part)", In the training program for the pharmacist of CAPA, Sept. 2019. تدريب صيدلة الإدارة المركزية لشؤون الصيدلة
- 4.6. "Regulatory and Quality Perspectives on Alternating the Source of API" the training program for the CAPA pharmacist on 27th of September 2018.
- 4.7. "The Successful Development of the Pharmaceutical Product" In the 2nd training program in accordance to the protocol between Faculty of Pharmacy, Cairo University and Holdi Pharma`s Pharmacy Training Center on 21st of April 2018.
- 4.8. "The Successful Development of the Pharmaceutical Product" In the training program in accordance to the protocol between Faculty of Pharmacy, Cairo University and Cairo Pharmacists Syndicate on 3rd of March 2018.

البرنامج التدريبي تبعا لبروتوكول التعاون بين كلية الصيدلة جامعة القاهرة ونقابة صيدلة القاهرة

<https://www.askpharmacy.net/drug-manufacture-course/>

- 4.9. "Correlating the Pharmaceutical Development of the Generic Product and the Common Technical Document CTD Modules 2 and 3" In the training program in accordance to the protocol between Faculty of Pharmacy, Cairo University and Holdi Pharma`s Training Center, November 25th, 2017.
- 4.10. "The Pathway to Successful Bio-Waiver and Comparative Dissolution Studies" 4th FUE International Conference of Pharmaceutical Sciences, Jan. 31st-2nd Feb., 2017
- 4.11. "Towards a Successful Development of Pharmaceutical Generic Products" Organized by Holdi Pharma`s Pharmacy Training Center; 14th February, 2016.
- 4.12. "Towards a Successful Pharmaceutical Development of Generic Drug Products: From the Action Letter to NODCAR Approval"

وحدة التصنيع الدوائي ك الصيدلة ج القاهرة ٢٦ ديسمبر ٢٠١٥م

National/Regional Technical Organizations Memberships

1. Egyptian Pharmaceutical Society, since 2008
2. Egyptian Syndicate of Pharmacists, since 1997

عضوية الهيئات المهنية المحلية
الجمعية الصيدلانية المصرية
النقابة العامة لصيادلة مصر

National Scientific Organization(s)/Societ(ies) Memberships

Egyptian Association of Continuing Medical Education Development (EACMED)

الجمعية المصرية لتطوير التعليم الطبي المستمر

International Scientific Organizations/Societ(ies) Memberships

عضوية الجمعيات/الهيئات العلمية العالمية

2021	Regulatory Affairs Professionals Society (RAPS) RegEx Pro Badge Membership No. #10532165	مجتمع محترفي الشؤون الرقابية
	Nanotechnology World Association (NWA)	الرابطة العالمية لتقنية النانو
	Frontier's loop https://loop.frontiersin.org/people/1361381/overview	
	Digital Health and Patient Safety Platform (DHPSP) https://digitalpatientsafety.com/members/	منصة سلامة المريض والصحة الرقمية
	Open Science Frame; https://osf.io/rzq39/	مركز العلوم المفتوحة
	International Society of Pharmaceutical Engineering (ISPE) Pharma.org	الرابطة الدولية للهندسة الصيدلانية
	Nanohub.org https://nanohub.org/members/356969	
2022-2024	Biochemical Society Member # 20025735	مجتمع الكيمياء
2021-2025	European Association for Cancer Research Membership No.: EACR32108	الرابطة الأوروبية لأبحاث السرطان
2019	American Association for the Advancement of Science (AAAS) Member No. 60170591 https://www.aaas.org/	الرابطة الأمريكية لتطوير العلوم
2014	The Federation of International Pharmacists (FIP) Member ID 39158	الاتحاد الدولي للصيادلة
2008	American Association of Pharmaceutical Scientists (AAPS) ID 253778	الرابطة الأمريكية لعلماء الصيدلة

International Fellowship(s) /Advisory Board Member

عضوية زمالة دولية/ مجلس استشاري

Cambridge Scholars Publishing Editorial Advisory Board

International Fellowship Program in Arbitration and Scientific Assessor; IFPASA
Fellow of the American Research Scholars; 2021 Honorary Advisory Board Member

عضو برنامج الزمالة الدولية للتحكيم والمقيم العلمي /بالمجلس الاستشاري الفخري

<http://clubmid.org/fellow/ifpasa-program-qualifications/>

Advisory board member of the free not-for-profit multidisciplinary

/Preprints/platform https://www.preprints.org/advisory_board

عضوية المجلس الاستشاري لمنصة "ما قبل القبول/النشر"

SCIENTIFIC APPRECIATION/RECOGNITION

التقدير العلمي

National and Regional Certificates of Recognition and Appreciation

شهادات التقدير العلمي المحلية والإقليمية

Jan. 2022	Cairo University Scientific Excellence Award, in the Advanced Biotechnological Sciences field, year 2021 جائزة جامعة القاهرة للتفوق العلمي في مجال العلوم التكنولوجية المتقدمة لعام ٢٠٢١ م https://ntalm-masry.com/20660/
2008- to-date	Certificates of Appreciation from Cairo University for Publication of Scientific Research Papers in International Journals having high impact factors that contributed to the University and Faculty higher ranking شهادات تقدير من ج القاهرة للنشر العلمي بالدوريات العلمية الدولية منذ ٢٠٠٨ م.
Sept. 2021	Certificate of Recognition and Appreciation, in the World's Pharmacists Day, Sept. 25 th , 2021, from Faculty of Pharmacy, Ain Shams University and the Arab Association for Pharmacists Progression; AAPP شكر وتقدير باليوم العالمي للصيدي ٢٥ سبتمبر ٢٠٢١ م، من كلية الصيدلة، ج عين شمس والجمعية العربية لتطوير الصيدلة وبمشاركة بعض شركات الأدوية المحلية والعالمية
June 2021	Recognition and Appreciation in the Arab World's Pharmacists Day, from the Arab Pharmacists Union (APU), June 24 th , 2021 شكر وتقدير بيوم الصيدلي العربي باحتفالية اتحاد الصيدلة العرب بالكاتدرائية المرقسية بالعباسية
Feb. 2019	Dr Makram Mahana Scientific Innovation Award by the Coptic Orthodox Center http://copticocc.org/site/?page_id=57199 جائزة د. مكرم مهني للإبداع العلمي لعام ٢٠١٩ م في مجال العلوم الحياتية من المركز الثقافي القبطي الأرثوذكسي عن العام ٢٠١٨ م
2010- to-date	Editor, Contributor and Speaker Recognized as "One of Scholars from Cairo University" contributed and/or serves as Editors for one or more OMICS Int. J. and Conf. https://www.omicsonline.org/universities/Cairo_University/
April 2018	Certificate of Appreciation from the 9th International Conference, Faculty of Pharmacy, Cairo University شهادة شكر وتقدير من المؤتمر الدولي التاسع لكلية الصيدلة ج القاهرة عن محاضرة بعنوان: "Regulatory and Quality Perspectives on Alternating the Source of API"
April 2018	Certificate of Appreciation from Drug Manufacturing Unit (DMU) at the Faculty of Pharmacy, Cairo University in the 2 nd training program for pharmacists of the holding company شهادة شكر وتقدير من وحدة التصنيع الدوائي بكلية الصيدلة ج القاهرة ٢١ إبريل ٢٠١٨ م لإلقاء محاضرة في البرنامج التدريبي الثاني لصيدالة الشركة القابضة طبقا للبروتوكول الموقع بين كلية الصيدلة جامعة القاهرة ومركز تدريب الشركة
March 2018	Shield of Excellence from the Egyptian Pharmacists Syndicate on Pharmacist Day جائزة درع التفوق من نقابة صيدالة مصر /يوم الصيدلي ١٠ مارس ٢٠١٨ م
Nov. 2017	Certificate of Appreciation from Drug Manufacturing Unit (DMU) at the Faculty of Pharmacy, CU in the 1 st training program for pharmacists of the holding company. شهادة شكر وتقدير من وحدة التصنيع الدوائي بكلية الصيدلة جامعة القاهرة ٢٥ نوفمبر ٢٠١٧ م لإلقاء محاضرة بالبرنامج التدريبي الأول لصيدالة الشركة القابضة

Jan. 2017	Certificate of Appreciation from the 4 th International Conference for Pharmaceutical Sciences, Future University in Egypt (FUE), Egypt. https://www.fue.edu.eg/FuelCP4/article.aspx?AID=2945&CID=0&WID=35 شهادة تقدير من المؤتمر الدولي الرابع للعلوم الصيدلانية لجامعة المستقبل
Jan. 2016	Certificate of Appreciation from training center of Holdipharma شهادة شكر وتقدير من مركز تدريب قطاع الدواء بالشركة القابضة للأدوية ٢٠١٦م
December 2015	Certificate of Appreciation from Drug Manufacturing Unit (DMU) at the Faculty of Pharmacy, Cairo University. شهادة شكر وتقدير من وحدة التصنيع الدوائي بكلية الصيدلة جامعة القاهرة ٢٥/١٢/٢٠١٥م "Towards a Successful Pharmaceutical Development of Generic Drug Products: From the Action Letter to NODCAR Approval"
2013	Certificate of Appreciation from the Faculty of Pharmacy - Cairo University in the Fourth Week of Excellence شهادة شكر من كلية الصيدلة ج القاهرة في أسبوع التميز الرابع ١٢/٢٠١٣م
2011	Supervising the Best Master Thesis in Pharmaceutics (Pharmacist Wesaam ElSebaei), Year 2011, Cairo Univ., Faculty of Pharmacy الإشراف على أفضل رسالة ماجستير بقسم الصيدلانيات للصيدلانية/ وسام السباعي، لعام ٢٠١١م بكلية الصيدلة جامعة القاهرة
2011	Supervising the Best Ph.D. thesis in Pharmaceutics (Pharmacist Rehab Shamma), Year 2011, Cairo Univ., Faculty of Pharmacy الإشراف على أفضل رسالة دكتوراة الفلسفة بقسم الصيدلانيات للصيدلانية/ رحاب نبيل شما، لعام ٢٠١١م بكلية الصيدلة جامعة القاهرة
2008	Shield of Excellence from the Egyptian Pharmacists Syndicate for earning the Ph.D. درع التفوق من نقابة صيدالة مصر للحصول على درجة الدكتوراة في ٢٠٠٧م


International Awards and Certificates of Recognition and Appreciation

الجوائز الدولية وشهادات التقدير العلمي

By	In	Rank/Based on
"World Scientist and University Medical and Health Sciences Rankings 2022" AD Scientific Index	Medical and Health Sciences/ Pharmacy; AD Ranking for Scientists; Google Scholar 2022	Total H 20, Last 5-year H 18, Total i10 28, Last 5 years i10 27

<https://www.adscientificindex.com/scientist.php?id=96971>

https://www.adscientificindex.com/scientist_print.php?id=96971

<p>Year 2021 certified Expertscape.com, from 2011 through 2021, In</p> 	Dosage Form	Top 0.8% contributions to 17 articles on the topic,
	Delayed-Action Preparations	Top 1.9% contributions to 8 articles on the topic,
	Drug Carriers	Top 1.9% contributions to 12 articles on the topic,
	Drug Compounding	Top 2.7% contributions to 6 articles on the topic,
	Pharmaceutical Vehicles	Top 2.9% contributions to 6 articles on the topic.

Year 2022 Expertscape.com 2012 - 2022,	Drug Delivery systems	Top 1.8% contributions to 16 articles on the topic,
	Dosage forms	Top 0.78% contributions to 17 articles on the topic,
	Drug Carriers	Top 1.8% contributions to 12 articles on the topic,
	Drug Compounding	Top 2.6% contributions to 6 articles on the topic,

International Awards and Certificates of Recognition and Appreciation (Cont.)

الجوائز الدولية وشهادات التقدير العلمي

March 2021	Silver Medal in Geneva Inventions 2021; Geneva International Exhibition for Innovation; supported by ASRT virtually. The best video of an innovative work idea titled " Long Lasting Biodegradable Polymer Based In-situ forming Implant for Treatment of Bone Injuries , By Abdel-Salam FS, Elkasabgy NA, Mahmoud AA, Basalious EB , Amer MS, Mostafa AA, et al. https://gate.ahram.org.eg/News/2678810.aspx http://www.asrt.sci.eg/all-news-ar/featured-news-ar/geneva-2/?lang=ar الميدالية الفضية لأفضل فكرة طبية إبداعية بمعرض جينييفا الدولي السنوي للإبداع العلمي مارس ٢٠٢١م، إفتراضيا، برعاية أكاديمية البحث العلمي والتكنولوجيا، بعنوان: "ابتكار غرسة تشكيل في الموقع تعتمد على البوليمر القابل للتحلل الحيوي طويلة الأمد لعلاج إصابات العظام"
April 2018	Best International Published Manuscript in Pharmaceutics 2017 by 9 th International Conference, Faculty of Pharmacy, Cairo University. شهادة تقدير من المؤتمر الدولي التاسع لكلية الصيدلة جامعة القاهرة لأحسن بحث منشور في مجال الصيدلانيات بمجلة دولية لعام ٢٠١٧م
July 2016	Oral presentation appreciation at the 5 th annual European Pharma Congress, Berlin, Germany, July 18-19 th 2016 شهادة تقدير لألقاء بحث بـبرلين ألمانيا بالمؤتمر السنوي الخامس للصيدلة ٢٠١٦م https://europe.pharmaceuticalconferences.com/speaker/2016/emad-b-basalious-cairo-university-egypt
March 2014	Best Poster at the 4 th International Conference and Exhibition on Pharmaceutics & Novel Drug Delivery Systems held in Hilton San Antonio Airport, San Antonio, USA. شهادة تقدير لأفضل ملصق في المؤتمر الدولي العلمي بالولايات المتحدة الأمريكية ٢٠١٤م.

Scientific Thesis Supervision, Granting Degrees, External Evaluation Committee Member

١. المنح الرسائل العلمية Granting Master or Ph.D. Degree

Granting 15 Master and Ph.D. Pharmacists, Faculty of Pharmacy, Ain Shams Univ.

- منح عدد **خمس عشرة** رسالة ماجستير ودكتوراه الفلسفة بكلية الصيدلة - جامعة القاهرة.

Granting Master thesis for one AUC Pharmacist student

- منح رسالة ماجستير بالجامعة الأمريكية بالقاهرة <http://dar.aucegypt.edu/handle/10526/5159>

Nanotechnology Program, School of Science and Engineering, AUC

٢. الإشراف Supervising 15 master and Ph.D. Thesis

- الإشراف الحالي على عدد **خمس عشرة** رسالة ماجستير ودكتوراه الفلسفة بكلية الصيدلة - جامعة القاهرة.
- المشاركة بهيئة الإشراف لرسالة ماجستير بـصيدلة عين شمس قسم الكيمياء الحيوية يونيو ٢٠٢٠م.

٣. عضوية لجان الحكم والمناقشة للرسائل العلمية

External Evaluator for 9 Master thesis and 4 Ph.D. Thesis, Faculty of Pharmacy, Cairo

University عضو بلجان الحكم والمناقشة لعدد **تسعة** رسائل درجة الماجستير وعدد **أربعة** رسائل دكتوراه الفلسفة

Research Interest

الاهتمامات والاتجاهات البحثية

- **Innovative Nano-based system(s) for pulmonary/ocular/brain/hepatic/bone disease(s) targeting and treatment,**
- Enhancing drugs ADME (drug absorption, distribution, metabolism and elimination) and bioavailability,
- Bio-adhesive drug delivery systems, Nano-based intranasal drug delivery,
- **Self-Nanoemulsifying Self-Nanosuspension (SNESNS) as a new approach for the preparation of a highly drug-loaded dosage forms,**
- **Bio-active glass nanoparticles for treatment of bone injuries,**
- Bile-based nanoparticles vesicles containing drugs used for oral treatment,
- Consolidated bile-based vesicles/self-nanoemulsifying system (CBBVs/SNES),
- Creating injectable extended-release systems *in-situ*.

Scientific Metrics

Scopus	https://www.scopus.com/authid/detail.uri?authorId=6504148581
Author ID, <i>h-index</i>	6504148581, 19
Citation/Documents	1171/ 41
Orchide ID	http://orcid.org/0000-0002-0594-7119
Google Scholar	Citation 1521, h index 20, i10 h index 28 https://scholar.google.com/citations?hl=en&user=uB8X8iYAAAAJ&view_op=list_works&sortby=pubdate
PubFacts	https://www.pubfacts.com/search/emad+basalious
Research Gate ID	https://www.researchgate.net/profile/Emad_Basalious2
Research Gate	28.72 citation 1292, h index 19
Publons	https://publons.com/researcher/465849/emad-basalious/
Sciprofile	https://sciprofiles.com/profile/1704177 https://in.art1lib.com/g/Emad%20B.%20Basalious

International Editorial Board Membership

عضوية هيئات التحرير الدولية

Role	Journal; Section	I.F/Q	Publisher
Research Topic Guest Editor	Frontiers in Nanotechnology; Biomedical Nanotechnology section; Biotech Systems and Bio-Inspired Particles for Diagnosis and Treatment of Gastro-Intestinal Cancers	-	Frontiers
Review Editor (RE)	Frontiers in Oncology; Gastrointestinal tract section https://loop.frontiersin.org/people/1361381/overview	6.4/Q1	
Academic Editor (AE)	PLOS ONE; Materials science, Nanomaterials and Nanotechnology section	2.7/Q1	PLOS.org
	BioMed Research International J.	3.4/Q2	Hindawi.com

Non-scopus International Editorial Board Member

SpringerNature [Future Journal of Pharmaceutical Sciences \(FJPS\)](https://www.sfn-journals.com)

Scientific Awards Evaluation Committee Member

عضوية لجان تحكيم الجوائز العلمية ..

1. ACDIMA Scientific Award Referee Committee 2021

جائزة شركة أكديما مصر للإبداع العلمي ٢٠٢١ م

2. Dr Makram Mahana Scientific Innovation Award 2021 by the Coptic Orthodox Center

جائزة د. مكرم مهني للإبداع العلمي من المركز الثقافي القبطي الأرثوذكس ٢٠٢١ م

3. Helwan University Awards Reviewer

جائزة ج حلوان التشجيعية بالمجال

Scientific Peer Reviewing/Evaluator

مراجع/محكم نظير في مجال التخصص العلمي

1. Member of the Referees' lists for Examining Scientific Production for the Promotion to Professorship and Assistant-Professorship, the 13th Committee (2019-2022), Committee No. 94, Pharmaceutical Studies Sector, specialty in Pharmaceutics and Industrial Pharmacy

عضوية قوائم المحكمين، بالمجلس الأعلى للجامعات، لفحص الإنتاج العلمي لشغل وظائف الأساتذة والأساتذة المساعدين الدورة الثالثة عشرة (٢٠١٩-٢٠٢٢ م) لجنة رقم ٩٤ قطاع الدراسات الصيدلانية تخصص الصيدلانيات والصيدلة الصناعية.

2. EXPERT REVIEWER, Program: STDF Experts, Different Proposal Types and Patency-referred for expert opinion

المشاركة في تحكيم المشاريع الواردة لصندوق تمويل المشروعات للعلوم والتكنولوجيا، نزاعات براءات الإختراع

3. Journal Peer Reviewing

تحكيم أبحاث علمية لعدد من المجلات الدولية

Journal	Publisher
European journal of pharmaceutics and biopharmaceutics, International journal of pharmaceutics, Journal of advanced research, Bulletin of Faculty of Pharmacy, Cairo University, Future journal of pharmaceutical sciences, Journal of drug delivery science and technology	Elsevier
International Journal of Nanomedicine, The Drug Design, Development and Therapy	Dove press
Expert opinion on drug delivery, Drug Delivery, Liposome research, Drug development and industrial pharmacy, Pharmaceutical development and technology, Journal of microencapsulation	Informa Healthcare
Journal of Pharmacy and pharmacology	Wiley
AAPS PharmSciTech., Drugs in R&D	Springer
Asian journal of pharmaceutics	Medknow
Molecular Pharmaceutics	ACS
Scientia Pharmaceutica	Scientia Pharmaceutica

Scientific Publications

International Scientific Publications (Scopus)

النشر العلمي

النشر العلمي الدولي

1. Hamdy, N.M., Boseila, A.A., Ramadan, A., **Basalious, E.B.**, (2022), Iron Oxide Nanoparticles-Plant Insignia Synthesis with Favorable Biomedical Activities and Less Toxicity, in the "Era of the-Green": a Systematic Review, Pharmaceutics; Nanomedicine and Nanotechnology section, 14(4), 844;
<https://doi.org/10.3390/pharmaceutics14040844>
2. ZM Mazayen, AM Ghoneim, RS Elbatanony, **EB Basalious**, ER Bendas, (2022), Pharmaceutical nanotechnology: from the bench to the market, Future Journal of Pharmaceutical Sciences 8 (1), 1-11,
<https://doi.org/10.1186/s43094-022-00400-0>
3. Ramadan, A., **Basalious, E.**, Abdallah, M., (2021), Industrial application of QbD and NIR chemometric models in quality improvement of Immediate release tablets, Saudi Pharmaceutical Journal June 29(6): 516-526,
<https://doi.org/10.1016/j.isps.2021.04.012>

4. Shaeer, O., Raheem, A. A., Elfeky, H., Seif, A., Abdel-Raheem, T. M., Elsegeiny, A., Soliman, M. S., **Basalious, E. B.**, & Shaeer, K. (2021), Urethral instillation of chlorhexidine gel is an effective method of sterilisation, *Arab journal of Urology*, 19(3), 419–422, <https://doi.org/10.1080/2090598X.2021.1956832>
5. Mohsen, K., Azzazy, H.M.E., Allam, N.K., **Basalious, E.B.**, (2020), Intranasal lipid nanocapsules for systemic delivery of nimodipine into the brain: *In vitro* optimization and *in vivo* pharmacokinetic study, *Material Science and Engineering: C* 116, 111236, <https://doi.org/10.1016/j.msec.2020.111236>
6. Farrah, A.Y., Al-Mahallawi, A.M., **Basalious, E.B.**, Nesseem, D.I., (2020), Investigating the Potential of Phosphatidylcholine-Based Nano-Sized Carriers in Boosting the Oto-Topical Delivery of Caroverine: *in vitro* Characterization, Stability Assessment and ex vivo Transport Studies, *Int J Nanomedicine* Nov 13;15:8921-8931, <https://doi.org/10.2147/IJN.S259172>
<https://go.gale.com/ps/i.do?id=GALE%7CA646496982&sid=googleScholar&v=2.1&it=r&linkAccess=abs&issn=11782013&p=AONE&sw=w&userGroupName=anon%7Ea8413fe1>
7. Yousry, C., Zikry, P.M., **Basalious, E.B.**, El-Gazayerly, O.N., (2020), Self-nanoemulsifying System Optimization for Higher Terconazole Solubilization and Non-Irritant Ocular Administration, *Adv Pharm Bull*, 10(3), 389-398, <https://apb.tbzmed.ac.ir/Article/apb-28043>
8. Abdel-Salam, F.S., Elkhesheh, S.A., Mahmoud, A.A., **Basalious, E.B.**, et. al. (2020), *In-situ* forming chitosan implant-loaded with raloxifene hydrochloride and bioactive glass nanoparticles for treatment of bone injuries: Formulation and biological evaluation in animal model, *International Journal of Pharmaceutics*, vol. 580, 119213, <https://doi.org/10.1016/j.ijpharm.2020.119213>
9. Khattab, A., Mohamed, M., **Basalious, E.B.**, (2020), Design of self-nanoemulsifying system to enhance absorption and bioavailability of poorly permeable Aliskiren hemifumarate, *Journal of Drug Delivery Science and Technology* 57; 101646, <https://doi.org/10.1016/j.iddst.2020.101646>
10. Ibrahim, M.M., **Basalious, E.B.**, El-Nabarawi, M.A., (2020), Consolidated bile-based vesicles/self-nanoemulsifying system (CBBVs/SNES) as a solution for limitations of oral delivery of vesicular dispersions: In-vitro optimization and elucidation of ex-vivo intestinal transport mechanisms, *Journal of Drug Delivery Science and Technology*, Vol: 56(A), Page: 101489, <https://doi.org/10.1016/j.iddst.2019.101489>

11. Yousry, C., Zikry, P.M., Salem, H.M., **Basalious, E.B.**, et al. (2020), Integrated nanovesicular/self-nanoemulsifying system (INV/SNES) for enhanced dual ocular drug delivery: statistical optimization, in vitro and in vivo evaluation, *Drug Deliv Transl Res.* 10, 801, <https://doi.org/10.1007/s13346-020-00716-5>
12. ElShagea, H.N., ElKasabgy, N.A., Fahmy, R.H., **Basalious, E.B.**, (2019), Freeze-Dried Self-Nanoemulsifying Self-Nanosuspension (SNESNS): a New Approach for the Preparation of a Highly Drug-Loaded Dosage Form, *AAPS PharmSciTech* 20(7):258, <https://doi.org/10.1208/s12249-019-1472-2>
<http://balis.bibalex.org/AR/OPAC/Home/SearchOPAC?keyword=%D8%B3%D9%86%D8%AC%D8%B1%D8%8C%20%D9%86%D8%B1%D9%85%D9%8A%D9%86.&filterId= 1&filterValue= El-Shagea%2C%20Hala%20Nehad%20Hassan%20Ali%2C>
13. Boseila, A.A., Abdel-Reheem, A.Y., **Basalious, E.B.**, (2019), Design of bile-based vesicles (BBVs) for hepatocytes specific delivery of Daclatasvir: Comparison of ex-vivo transenterocytic transport, in-vitro protein adsorption resistance and HepG2 cellular uptake of charged and beta-sitosterol decorated vesicles, *PloS one* 14(7):e0219752, <https://doi.org/10.1371/journal.pone.0219752>
14. Elkasabgy, N.A., Abdel-Salam, F.S., Mahmoud, A.A., **Basalious, E.B.**, et al., (2019), Long lasting in-situ forming implant loaded with raloxifene HCl: An injectable delivery system for treatment of bone injuries, *International journal of pharmaceutics* 571:118703, <https://doi.org/10.1016/j.ijpharm.2019.118703>
15. Sweed, N.M., **Basalious, E.B.**, Nour, S.A., (2019), Combined site-specific release retardant mini-matrix tablets (C-SSRRMT) for extended oral delivery of dexketoprofen trometamol: in vitro evaluation and single versus multiple doses pharmacokinetic study in human volunteers, *Drug development and industrial pharmacy* 45(11):1777-87, <https://doi.org/10.1080/03639045.2019.1656737>
16. Rezk, M.R., **Basalious, E.B.**, & Badr, K.A., (2018), Novel determination of sofosbuvir and velpatasvir in human plasma by UPLC–MS/MS method: Application to a bioequivalence study, *Biomedical Chromatography*, 32(11), <https://doi.org/10.1002/bmc.4347>
17. Fouad, S.A., Shamma, R.N., **Basalious, E.B.**, El-Nabarawi, M.M., & Tayel, S.A., (2018), Novel instantly-dispersible nanocarrier powder system (IDNPs) for intranasal delivery of dapoxetine hydrochloride: in-vitro optimization, ex-vivo permeation studies, and in-vivo evaluation, *Drug Development and Industrial Pharmacy*, 44(9), 1443–1450, <https://doi.org/10.1080/03639045.2018.1459675>

18. Abo Elela, M.M., ElKasabgy, N.A., **Basalious, E.B.**, (2017), Bio-shielding In Situ Forming Gels (BSIFG) Loaded With Lipospheres for Depot Injection of Quetiapine Fumarate: In Vitro and In Vivo Evaluation, AAPS PharmSciTech 18(8):2999-3010,
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19. **Basalious, E.B.**, Abdallah, A.M., (2017), Phospholipid based self-nanoemulsifying self-nanosuspension (p-SNESNS) as a dual solubilization approach for development of formulation with diminished food effect: Fast/fed in vivo pharmacokinetics study in human, European journal of pharmaceutical sciences: 109:244-52,
<https://doi.org/10.1016/j.ejps.2017.08.017>
20. El-Setouh, D.A., **Basalious, E.B.**, Abdelmalak, N.S., (2017), Effect of Different Melttable Binders on the Disintegration and Dissolution Behavior of Zolmitriptan Oromucosal Fast Melt Tablets, Journal of Pharmacy and Nutrition sciences 7: 13-23,
<https://doi.org/10.6000/1927-5951.2017.07.01.3>
21. Hanna, L.A., **Basalious, E.B.**, ON, EL., (2017), Respirable controlled release polymeric colloid (RCRPC) of bosentan for the management of pulmonary hypertension: in vitro aerosolization, histological examination and in vivo pulmonary absorption, Drug delivery 24(1):188,
<https://doi.org/10.1080/10717544.2016.1239661>
22. Rashed, H.M., Shamma, R.N., **Basalious, E.B.**, (2016), Contribution of both olfactory and systemic pathways for brain targeting of nimodipine-loaded lipo-pluronic micelles: in vitro characterization and in vivo biodistribution study after intranasal and intravenous delivery, Drug delivery 24(1):181-7,
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23. Rezk, M.R., Bendas, E.R., **Basalious, E.B.**, et al. (2016), Quantification of sofosbuvir and ledipasvir in human plasma by UPLC-MS/MS method: Application to fasting and fed bioequivalence studies, J. of chromatography B, Analytical technologies in the biomedical and life sciences 1028:63-70,
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24. Rezk, M.R., Bendas, E.R., **Basalious, E.B.**, et al. (2016), Development and validation of sensitive and rapid UPLC-MS/MS method for quantitative determination of daclatasvir in human plasma: Application to a bioequivalence study, J. of pharmaceutical and biomedical analysis 1028:61,
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26. Fouad, S.A., Shamma, R.N., **Basalious, E.B.**, et al. (2016), Novel instantly-soluble transmucosal matrix (ISTM) using dual mechanism solubilizer for sublingual and nasal delivery of dapoxetine hydrochloride: In-vitro/in-vivo evaluation, International journal of pharmaceutics 505(1-2):212-22,
<https://doi.org/10.1016/j.iipharm.2016.04.006>
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<https://doi.org/10.3109/10837450.2014.999784>
28. **Basalious, E.B.**, Shamma, R.N., (2015), Novel self-assembled nano-tubular mixed micelles of Pluronic P123, Pluronic F127 and phosphatidylcholine for oral delivery of nimodipine: In vitro characterization, ex vivo transport and in vivo pharmacokinetic studies, International journal of pharmaceutics 493(1-2):347-56,
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29. El-Setouhy, D.A., **Basalious, E.B.**, et al. (2015), Bioenhanced sublingual tablet of drug with limited permeability using novel surfactant binder and microencapsulated polysorbate: In vitro/in vivo evaluation, European J. of Pharmaceutics and Biopharmaceutics 94, 386-392,
<https://doi.org/10.1016/j.ejpb.2015.06.006>.
30. Rezk, M.R., **Basalious, E.B.**, Karim, I.A., (2015), Development of a sensitive UPLC-ESI-MS/MS method for quantification of sofosbuvir and its metabolite, GS-331007, in human plasma: Application to a bioequivalence study, J. of pharmaceutical and biomedical analysis 114:97-104,
<https://doi.org/10.1016/j.jpba.2015.05.006>.
31. El-Laithy, H.M., **Basalious, E.B.**, et al. (2015), Novel self-nanoemulsifying self-nanosuspension (SNESNS) for enhancing oral bioavailability of diacerein: Simultaneous portal blood absorption and lymphatic delivery, International journal of pharmaceutics 490(1-2):146,
<https://doi.org/10.1016/j.iipharm.2015.05.039>

32. **Basalious, E.B.**, Abdullah, A., Ibrahim, M., (2014), Utility of Mannitol and Citric Acid for Enhancing the Solubilizing and Taste Masking Properties of β -Cyclodextrin: Development of Fast-Dissolving Tablets Containing Extremely Bitter Drug, J Pharm Innov., 9, 309-320, <https://link.springer.com/article/10.1007%2Fs12247-014-9196-z>
33. Fouad, S.A., **Basalious, E.B.**, et al. (2013), Microemulsion and poloxamer microemulsion-based gel for sustained transdermal delivery of diclofenac epolamine using in-skin drug depot: in vitro/in vivo evaluation, International j. of pharmaceuticals, 453(2): 569, <https://doi.org/10.1016/j.ijpharm.2015.07.058>
34. **Basalious, E.B.**, El-Sebaie, W., El-Gazayerly, O., (2013), Rapidly absorbed orodispersible tablet containing molecularly dispersed felodipine for management of hypertensive crisis: development, optimization and in vitro/in vivo studies, Pharmaceutical development and technology, 18(2): 407-416, <https://doi.org/10.3109/10837450.2012.659258>
35. Shamma, R.N., **Basalious, E.B.**, Shoukri, R., (2012), Development of novel sustained release matrix pellets of betahistine dihydrochloride: effect of lipophilic surfactants and co-surfactants, Pharmaceutical development and technology, 17(5): 583-593, <https://doi.org/10.3109/10837450.2011.557730>
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37. Shamma, R.N., **Basalious, E.B.**, Shoukri, R.A., (2011), Development and optimization of a multiple-unit controlled release formulation of a freely water soluble drug for once-daily administration, International journal of pharmaceuticals, 405(1-2): 102-112, <https://doi.org/10.1016/j.ijpharm.2010.12.003>
<https://agris.fao.org/agris-search/search.do?recordID=US201500124055>
38. Aboelwafa, A.A., **Basalious, E.B.**, (2010), Optimization and in vivo pharmacokinetic study of a novel controlled release venlafaxine hydrochloride three-layer tablet, AAPS PharmSciTech, 11(3): 1026-1037, <https://doi.org/10.1208/s12249-010-9467-z>

39. **Basalious, E.B.**, Shawky, N., Badr-Eldin, S.M., (2010), SNEDDS containing bioenhancers for improvement of dissolution and oral absorption of lacidipine. I: development and optimization, International journal of pharmaceutics, 391(1-2): 203-211,
<https://doi.org/10.1016/j.iipharm.2010.03.008>
40. Yehia, S.A., El-Gazayerly, O.N., **Basalious, E.B.**, (2009), Fluconazole mucoadhesive buccal films: in vitro/in vivo performance, Current drug delivery, 6(1):17-27,
<https://doi.org/10.2174/156720109787048195>
41. Yehia, S.A., El-Gazayerly, O.N., **Basalious, E.B.**, (2008), Design and in vitro/in vivo evaluation of novel mucoadhesive buccal discs of an antifungal drug: relationship between swelling, erosion, and drug release, AAPS PharmSciTech, 9(4):1207-1217,
<https://doi.org/10.1208/s12249-008-9166-1>
42. El-Samaligy, M.S., Yahia, S.A., **Basalious, E.B.**, (2004), Formulation and evaluation of diclofenac sodium buccoadhesive discs, International journal of pharmaceutics, 286(1-2): 27,
<https://doi.org/10.1016/j.iipharm.2004.07.033>

International Scientific Publications (Non-Scopus; 4)

43. Mazayan, Z.M., Ghoneim, A.M., Elbatanony, R.S., **Basalious, E.B.**, Bendas, E.R., (2022), Pharmaceutical nanotechnology: from the bench to the market, Futur J Pharm Sci. 2022;8(1):12.
[10.1186/s43094-022-00400-0](https://doi.org/10.1186/s43094-022-00400-0)
44. Sweed, N.M., **Basalious, E.B.**, Nour, S.A., (2017), Sustained Release Multiple Unit Dosage Form for the Oral Day Delivery of Dexketoprofen Trometamol, Open access J Pharm Res 1(3): 000114.
<https://medwinpublishers.com/OAJPR/OAJPR16000114.pdf>
45. Khowessah, O., Amin, M., **Basalious, E.B.**, (2009), Development of ocular delivery systems containing aceclofenac nanoparticles. Part I: Optimization of nanoparticles formulations using full factorial design, J. Biomed. Sci., 31: 25-47.
46. El-Samaligy, M.S., Yahia, S.A., **Basalious, E.B.**, (2001), Improved design for in-vitro measurement of adhesion parameters of bioadhesive pharmaceutical systems, Bull. Fac. Pharm.Cairo Univ., 39: 103-112.

List of Journals and their Total Impact Factor

No.	Journal title إسم المجلة	IF معامل التأثير	العدد الكلي للبحوث المنشورة بالمجلة	Sum of IFs المجموع الكلي لمعامل التأثير
1	AAPS PharmSciTech	2.401	5	12.005
2	PLOS One	2.74	1	2.74
3	International Journal of Pharmaceutics	4.845	9	43.605
4	Molecular Pharmaceutics	4.321	1	4.321
5	Drug Development and Industrial Pharmacy	2.365	2	4.73
6	Biomedical Chromatography	1.728	2	3.456
7	Journal of Pharmaceutical Innovation	1.692	1	1.692
8	European Journal of Pharmaceutical Sciences	3.616	1	3.616
10	Journal of Pharmacy and Nutrition Sciences	NA	1	NA
11	Current Drug Delivery	1.582	1	1.582
12	European Journal of Pharmaceutics and Biopharmaceutics	4.604	1	4.604
13	Drug Delivery	4.902	2	9.804
14	Journal of Chromatography B-Analytical Technologies in the Biomedical and Life Sciences	3.004	1	3.004
15	Journal of Pharmaceutical and Biomedical Analysis	3.209	2	6.418
16	Pharmaceutical Development and Technology	2.169	3	6.507
17	Journal of Drug Delivery Science and Technology	2.734	2	5.468
18	Drug Delivery and Translational Research	2.664	1	2.664
19	Material Science and Engineering: C	5.88	1	5.88
20	Adv Pharm Bull	NA	1	NA
21	Int J Nanomedicine	5.115	1	5.115
22	Saudi Pharmaceutical J	2.879	1	2.879
23	Pharmaceutics	6.32	1	6.32
Total Impact Factor for all Publications (41 papers)				136.41

Research Project(s)
Independent Research Project(s) Serving the Community

المشروعات البحثية

المشروعات البحثية المستقلة لخدمة المجتمع

المردود Outcome	تعاون بين Collaboration between	المشروع Project Purpose
توفير مسستحضر بسوق الدواء المصري لعلاج سرطان الكبد من أصل طبيعي باستخدام الكركم والبيبيرين والتورين.	NCI, Cairo University and National Hepatology & Tropical Medicine Research Institute (NHTMRI, MOH) and Marcyrl	Crucial Role of Curcumin, Piperine and Taurine Combination in the Management of Patients with Hepatocellular Carcinoma.

Funded Research Project(s) for Serving Community **المشروعات البحثية الممولة لخدمة المجتمع**

المردود Outcome	اسم المستحضر التجاري بالسوق المصري / بتمويل من Name of the Pharmaceutical Formulation in Market	المشروع Project purpose
توفير مسستحضر بسوق الدواء المصري لتثبيت الحمل ينافس المستحضرات المستوردة	Prontogest® suppository شركة ماركيمل للصناعات الدوائية Marcyrl	تطوير تحاميل مهبلية جديدة ذوات قواعد كريمة VRCS لعقار هرمون البروجسترون تكون سريعة التفكك وتبقي ملازمة لجدار المهبل لتحسين رضا السيدات الحوامل
توفير أدوية علاج فيروس سي الكبدي محلي الصنع بالسوق	Antiviral products • Mpiviropack® tablets. • Mpiviropack® plus Tablets • DaclaviroCyl® tablets شركة ماركيمل للصناعات الدوائية Marcyrl	عقارات علاج فيروس سي الكبدي المتفشى في المجتمع المصري HCV TREATING DRUGS

ONGOING INTERNATIONAL RESEARCH GRANT

المشاركة بالمشاريع البحثية الدولية الممولة

ID/Submitted To المردود	Start Dates/Role/Partners تاريخ البدء/الدور/ المشاركين	Title العنوان
(MEDISMART) PRIMA 2020, Funded by STDF, To EU مشروع للمحافظة علي البيئة والتصنيع دوائي	Start Date October 2020, Team member with researchers from EGYPT; NRC, FOP ASU, FOP Cairo University and Italy, Spain and Portugal, and Turkey	Mediterranean Citrus: Innovative soft processing solutions for S.M.A.R.T. (Sustainable, Mediterranean, Agronomically evolved, nutRitionally enriched, Traditional) Products.

Consultancy to National PROJECT PROPOSAL(s)

إستشاري بالمشروعات البحثية المحلية

Submitted To المردود	Year/Role	Title
ASU Environment Sector استخدام لبعض المنتجات الطبيعية الحيوية لعلاج كوفيد	2021 Consultant	Repurposing of Some Bioactive Natural Products to Control COVID-19 Infection: A Molecular Docking Study
ASU Strategic Research Plan دراسة الحمض النووي المشفر غير الطويل الإكسوزومي بسرطان المستقيم والقولون	2022 Consultant	"Study of Novel Exosomal Long Non-Coding RNA NAMPT-AntiSense and its Interrelation to NAMPT Protein as Potential Molecular Key Player(s) in Colorectal Cancer"

International Patency

براءة اختراع دولية

Docket No.: 03075.0054US01,

International Publication #: WO 2020/177830 A1,

International Publication Date: Sept. 10th, 2020

International Application #: PCT/EG2019/050002; March 5th, 2019.

Titled "Long Lasting Biodegradable Polymer Based In-situ forming Implant for Treatment of Bone Injuries",

Docket No.: 03075.0054US01
LONG LASTING BIODEGRADABLE POLYMER BASED <i>IN-SITU</i> FORMING IMPLANT FOR TREATMENT OF BONE INJURIES
CROSS-REFERENCE TO RELATED APPLICATIONS
5 This application claims priority to PCT Application No. PCT/EG2019/050002, having a filing date of March 05, 2019, the entire contents of which are hereby incorporated by reference.
FIELD OF TECHNOLOGY
10 [001] The following relates to injectable long lasting biodegradable polymer based <i>in-situ</i> forming implant formulations for treatment of bone injuries.
BACKGROUND

Scientific Conferences

المؤتمرات العلمية

1. Invited Figure Speaker/Chairperson at Several National Scientific Conference(s) as
2. Invited Speaker at Several International Scientific Conference(s),
3. Member of the Scientific Advisory Board for Several International Conference(s),
4. Invited to Attend and/or Present Researches at International Conferences Orally,
5. Attending and Presenting Researches at Scientific International Conferences as Poster,
6. Organizing/Giving/Attending Conferences Workshops and Seminars,

1. Invited Figure Speaker/Chairperson at Several National Scientific Conference(s) as

- 1.1. Al-Ahram Pharmaceutical 2nd Conf. (APHC) 16th October, 2021, Invited R&D Figure Speaker, مؤتمر الأهرام الثاني لصناعة الدواء أكتوبر ٢٠٢١ م، "بجلسة" البحث والتطوير الصيدلاني، بعنوان البحث والتطوير وسد الفجوة بين البحث الأكاديمي والصناعي "المشاكل والحلول"
<https://gate.ahram.org.eg/daily/NewsPrint/828003.aspx>
<https://www.elwatannews.com/news/details/5750569>
- 1.2. Chairperson at MOH first Biosimilar conference, Jan. 2020.

2. Invited Speaker at Several International Scientific Conference(s);

“The WHO Emergency Use Listing (EUL) and FDA Emergency Use Authorization (EUA) are decision tools to conduct a risk-benefit assessment of unlicensed vaccines during public health emergencies.”

<https://www.pharma.cu.edu.eg/English/NewsEvents/Conferences/2021/Speaker.aspx>

Faculty of Pharmacy, Cairo University 10th International Scientific Conference on July 6th – 7th, 2021, Reshaping Pharma Sustainability and Innovation for Better Pandemic Response.

3. Member of the Scientific Advisory Board for Several International Conference(s);

4th FUE International Conference of Pharmaceutical Sciences, Faculty of Pharmacy, FUE, 31st January to 2nd February 2017,

<https://www.fue.edu.eg/FuelCP4/article.aspx?AID=2895&CID=0&WID=35>

4. Invited to Attend and/or Present Researches at International Conferences Orally

حضور وإلقاء الأبحاث شفهيًا بالمؤتمرات العلمية الدولية

4.1. 4th FUE International Conference of Pharmaceutical Sciences, Faculty of Pharmacy, FUE, 31st January to 2nd February 2017, member of the scientific advisory board,

<https://www.fue.edu.eg/FuelCP4/article.aspx?AID=2895&CID=0&WID=35>

Oral presentation; “Contribution of Both Olfactory and Systemic Pathways for Brain Targeting of Nimodipine-Loaded Lipo-Pluronic Micelles: *In Vitro* Characterization and *In Vivo* Biodistribution Study”; by Dr. Rehab Shamma.

4.2. 5th Annual European Pharma Congress, Berlin, Germany, 18-20th July 2016,

Oral presentation; “Self-Nanoemulsifying Self-Nanosuspension (SNESNS) For Enhancing Oral Bioavailability of Diacerein: Simultaneous Portal Blood Absorption and Lymphatic Delivery”; <https://europe.pharmaceuticalconferences.com/speaker/2016/emad-b-basalious-cairo-university-egypt>

5. Attending and Presenting Researches at Scientific International Conferences as Poster

حضور المؤتمرات العلمية الدولية والمشاركة بالأبحاث كملصق

5.1. AAPS PharmSci 360, Washington DC, USA, 4-7th November 2018,

Poster Presentation; Bile Based Vesicles for Hepatocytes Specific Oral Delivery of Direct Acting Antiviral (DAA): Assessment of the Targeting Ability of the Charged and β -sitosterol Decorated Vesicles.

5.2. 4th FUE International Conference of Pharmaceutical Sciences, Faculty of Pharmacy, FUE, 31st January to 2nd February 2017,

Poster Presentation; Novel Instantly-Dispersible Nanocarrier Powder System (Idnps) For Intranasal Delivery of Dapoxetine Hydrochloride: *In-Vitro* Optimization, *Ex-Vivo* Permeation Studies and *In-Vivo* Evaluation.

5.3. 4th FUE International Conference of Pharmaceutical Sciences, Faculty of Pharmacy, FUE, 31st January to 2nd February 2017,

Poster Presentation; Nanocarriers For the Enhancement of The Oral Delivery of Direct Acting Antiviral Drug DAA.

5.4. 7th International Conference and Exhibition on Pharmacovigilance & Clinical Trials, Vienna, Austria, 22nd - 24th August 2016,

Poster Presentation; Novel Instantly-Soluble Transmucosal Matrix (ISTM) Using Dual Mechanism Solubilizer For Sublingual and Nasal Delivery of Dapoxetine Hydrochloride: *In-Vitro/In-Vivo* Evaluation.

5.5. 3rd FUE International Conference of Pharmaceutical Sciences, Faculty of Pharmacy, FUE, 9-11th February 2015,

Poster Presentation by Mostafa AbouEla; Optimization of Extended-Release Lipid-Based Carrier for An Antipsychotic Drug Using Response Surface Methodology.

5.6. 3rd FUE International Conference of Pharmaceutical Sciences, Faculty of Pharmacy, FUE, 9-11th February 2015,

Poster Presentation by Shahinaz Omri; Instantly Soluble Lyophilized Matrix of Dapoxetine Hydrochloride for Enhancement of Bioavailability.

5.7. 4th International conference and Exhibition on Pharmaceutics and Novel Drug Delivery systems, San Antonio, USA, 24-26th March 2014,

Poster Presentation; Development and Optimization of Fast Dissolved Tablets Containing High Dose of Extremely Bitter Drug: Taste Masking and Enhancement of Drug Dissolution Using Sugar-Based Excipients.

5.8. 5th International Conference on Nanotechnology: Fundamentals and Applications (ICNFA'14), Prague, Czech Republic, 11-13th August 2014,

Poster Presentation by Omnia Abdel Kader; Development and Optimization Of Aceclofenac Nanoparticles Utilizing A Full Factorial Design;

https://2014.icnfa.com/ICNFA_Program.pdf

- 5.9. AAPS Annual meeting and Exposition, San Antonio, USA, 10-14th November 2013,**
Poster Presentation by Shahinaz Amri; Microemulsion and Poloxamer Microemulsion-Based Gel for Sustained Transdermal Delivery of Diclofenac Epolamine Using In-Skin Drug Depot: *In Vitro/In Vivo* Evaluation.
- 5.10. 3rd International Scientific Conference of Faculty of Pharmacy, Cairo University “Good Pharmacy Practice”, 25-26th April 2012,**
Poster Presentation; Transdermal Delivery of a Non-Steroidal Anti-Inflammatory Drug Using Microemulsion-Based Gel: Optimization Using D-Optimal Design.
- 5.11. 3rd International Scientific Conference of Faculty of Pharmacy Cairo University “Good Pharmacy Practice”, 25-26th April 2012,**
Poster Presentation; Development and Optimization of Orodispersible Tablets of Aceclofenac Containing B-Cyclodextrin As Taste-Masking Agent: Enhancement of Drug Dissolution.
- 5.12. AAPS Annual meeting and Exposition, Walter E. Washington Convention Center, Washington, D.C., USA, 25-27th October 2011,**
Poster Presentation by Rehab Shama; Development and Evaluation of Sustained Release Orally-Disintegrating Tablets Containing Drug Loaded Resin Microcapsules Using Highly Plastic Granules.
- 5.13. 70th International Congress of FIP "From Molecules to Medicine to Maximizing patient outcomes" in Lisbon, Portugal, 28th August to 2nd September 2010,**
Poster Presentation; Development and Optimization of Multiple-Unit Controlled Release Dosage Form of a Highly Water-Soluble Drug for Once-Daily Administration.
- 5.14. FIP Pharmaceutical Sciences World Congress 2010 in Association with the AAPS Annual Meeting and Exposition, New Orleans, Louisiana, USA, 14-18th November 2010,**
Poster Presentation; Application of Pharmaceutical Quality by Design for Enhancement of the Solubility and Dissolution of a Class II BCS Drug using Polymeric Surfactants: Development of controlled release tablets.
- 5.15. 2nd Conference on “Innovation in Drug Delivery: From Pre-formulation to Development through Innovative Evaluation Process” Aix-en-Provence, France, 3-6th October 2010, by the APGI (International Society of Drug Delivery and Pharmaceutical Technology),**
Poster Presentation by Rehab Shamma; Development and Optimization of Multiple-Unit Controlled Release Dosage Form of Betahistine Dihydrochloride For Once-Daily Administration.

5.16. XXXI Conference of Society of Pharmaceutical Sciences, Egyptian Pharmaceutical Society, December 2008,

Poster Presentation; Optimization of Self-Nano emulsified Drug Delivery Systems for Improved Dissolution of a Hydrophobic Drug.

5.17. XXXI Conference of Society of Pharmaceutical Sciences, Egyptian Pharmaceutical Society, December 2008,

Poster presentation; Design of Layered Matrix Systems for Modulation of the Release of a Highly Water-Soluble Drug.

5.18. XXXI Conference of Society of Pharmaceutical Sciences, Egyptian Pharmaceutical Society, December 2008,

Poster Presentation; Enhancement of the Solubility of a Class II BCS Drug: Optimization Using Response Surface Methodology.

5.19. XXXI Conference of Society of Pharmaceutical Sciences, Egyptian Pharmaceutical Society, December 2008,

Poster Presentation; PLGA Nanoparticles for Prolonged Ocular Delivery of an Anti-inflammatory Drug.

5.20. AAPS Annual meeting and Exposition, Atlanta, GA, USA, 15 -20th November, 2008,

Poster Presentation; Design And *In Vitro/In Vivo* Evaluation of Novel Mucoadhesive Buccal Discs of An Antifungal Drug: Relationship Between Swelling, Erosion and Drug Release.

5.21. AAPS Annual meeting and Exposition, San Antonio, TX, USA, 28th October to 2nd November 2006;

Poster Presentation; Preparation and Evaluation of Fluconazole Mucoadhesive Buccal Films.

6. Organizing/Giving/Attending Conferences Workshops and Seminars

حضور ورش العمل والندوات بالمؤتمرات

6.1. FUE workshop on Modern Tablets and Capsules Formulation, Manufacturing and Problem Solving, 27-28th January 2016, Faculty of Pharmacy.

6.2. The Unified Arab Code in Bioequivalence Studies by the Arab Federation for Producers of Medicines and Medical Supplies 4/12/2016.

6.3. Towards Manufacturing of Active and Inactive Pharmaceutical Ingredients in Egypt, ASRT 15/12/2016.

6.4. Three days' workshop; Pellets and Micropellets for Oral Multiarticulate Dosage forms, TTC Technology Training Center, Glatt, Binzen, Germany, 24-26th November 2015.

- 6.5. **Introduction to Common Technical Document CTD, 8-10th December 2015,**
دارالعلوم Dar El Olom For Studies and Consultancies.
- 6.6. **Stability and Bioequivalence Guidelines for the Pharmaceutical Products in the Egyptian market,** Drug Manufacturing Unit, Faculty of Pharmacy, Cairo University 7/12/2013.
- 6.7. **Quality by Design (QbD): A new Concept of FDA, Drug Manufacturing Unit,** Faculty of Pharmacy, Cairo University 9/9/2012.
- 6.8. **XXXII Conference of Pharmaceutical Sciences, Egyptian Pharmaceutical Society,** December 2011.
- 6.9. **2nd International Scientific Conference of Faculty of Pharmacy, CU,** April, 2010
- 6.10. **Attending Crisis Management and Evacuation Plan by Faculty of Pharmacy, Cairo University, Cairo, Egypt,** April 15th 2008
- 6.11. **The Film Coating and Modified Release Technology,** At CARACAS at the Faculty of Pharmacy, Cairo University 9/2/2008.
- 6.12. **Attending E-learning and Smart Board Use by Faculty of Pharmacy, CU,** 2008.
- 6.13. **Hospital Pharmacy, Antimicrobial Stewardship and the Formulary Process,** Faculty of Pharmacy, MIU, November 2008.
- 6.14. **Stability Testing to Support Pharmaceutical Industry in Egypt,** At CARAS at the Faculty of Pharmacy, Cairo University 10/22/2007.

Teaching Experience

الخبرات التدريسية

Undergraduate Courses (General Program)

At FOPCU	103 Pharmaceutics I	106 Pharmaceutics II
	110 Pharmaceutics IV	111 Biopharmaceutics and Pharmacokinetics
At Misr International University (MIU)		Stability and Drug Kinetics

Postgraduate Courses

Common Technical Document CTD Modules,

Biostatistics for Pharm-D students at FOPCU

Pharmaceutical Statistics at FOPCU, Future University in Egypt (FUE) 2017-2019, 2021, 2022

Drug Targeting at Future University in Egypt (FUE), 2019,

Pharmacy Practice; Practical and Theoretical courses (Diploma of Hospital Pharmacy)&

Industrial Pharmacy Diploma; Practical and Theoretical courses (Liquid and Disperse Dosage Forms, Code: 1124) at FOPCU.

Credentials and Training Courses

الدورات التدريبية التي تم إجتهاها

Training Courses by the Center for Development of the Capabilities of Faculty Members and Leaders at Cairo University, Cairo, Egypt

• Communication Skills in Different Learning Styles	22-23/2/2017
• Quality Standards in the Teaching Process	18-19/2/2017
• Statistical Analysis in Vital Experiences	15-16/2/2017
• Creative Thinking	8-9/2/2017
• International Publication for Scientific Research	23-24/11/2016
• Ethics of Scientific Research	30-31/3/2016
• Research Team Management	24-26/4/2012
• Preparing Competitive Research Projects	2-4/1/2012
• Use of Technology in Teaching	9-11/1/2012
• University Administration	9-11/1/2012
• Examination Systems and Student Assessment	16-18/1/2012
• Teaching Assistant 1	11/8/2008
• Teaching Assistant by Ministry of Higher Education, Central Unit of ICT Training (CUICTT)	
• Assessment of Exams delivered by CUICTT	
• Scientific Publishing	3/3/2008
• Credit Hours	3/31 to 4/4/2008

Links, Pages, Videos and Articles in the Media About and by Prof. Emad B. Basalious;

https://sciprofiles.com/search/publications/0?search_form%5Btext%5D=emad+basalious
<https://www.semanticscholar.org/author/E.-B.-Basalious/8593368?sort=pub-date>
http://www.nodcar.eg.net/main/?page_id=218
<https://www.pharma.cu.edu.eg/Arabic/CentersAndUnits/CARAS/ExecutiveTeam.aspx>
<https://scholar.cu.edu.eg/?q=ebb/>
<https://www.scopus.com/authid/detail.uri?authorId=6504148581>
<http://orcid.org/0000-0002-0594-7119>
https://www.researchgate.net/profile/Emad_Basalious2
https://scholar.google.com/citations?hl=en&user=uB8X8iYAAAAJ&view_op=list_works&sortby=pubdate
<http://medismart.org/teamwork>
<https://connect.raps.org/members/profile>
<https://loop.frontiersin.org/people/1361381/overview>
<http://www.nodcar.eg.net/main/>
<https://digitalpatientsafety.com/members/>
<https://gate.ahram.org.eg/News/2678810.aspx>
http://copticocc.org/site/?page_id=57199
<https://www.fue.edu.eg/FuelCP4/article.aspx?AID=2945&CID=0&WID=35>
<https://europe.pharmaceuticalconferences.com/speaker/2016/emad-b-basalious-cairo-university-egypt>
https://2014.icnfa.com/ICNFA_Program.pdf
<https://www.researcher-app.com/profile/me>
<https://fb.watch/4AKKv0bn6o/>

<https://gate.ahram.org.eg/daily/NewsPrint/828003.aspx>
<https://www.youm7.com/story/2019/9/18/%D8%AA%D8%B9%D9%8A%D9%8A%D9%86-%D8%B9%D9%85%D8%A7%D8%AF-%D8%A8%D8%A7%D8%B3%D9%8A%D9%84%D9%8A%D9%88%D8%B3-%D8%B1%D8%A6%D9%8A%D8%B3%D8%A7-%D9%84%D9%87%D9%8A%D8%A6%D8%A9-%D8%A7%D9%84%D8%B1%D9%82%D8%A7%D8%A8%D8%A9-%D9%88%D8%A7%D9%84%D8%A8%D8%AD%D9%88%D8%AB-%D8%A7%D9%84%D8%AF%D9%88%D8%A7%D8%A6%D9%8A%D8%A9-%D8%A8%D9%88%D8%B2%D8%A7%D8%B1%D8%A9-%D8%A7%D9%84%D8%B5%D8%AD%D8%A9/4422164>
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