



Basic Information :

Name : AZZA AHMED MOHAMED MAHMOUD

Title : Professor

Dr. Azza Ahmed Mahmoud; Professor of Pharmaceutical Technology at Pharmaceutics and Pharmaceutical Technology Department. She holds MSc and PhD degrees in Pharmaceutics from Faculty of Pharmacy, Cairo University (Egypt) as well as Associate Professor degree from the National Research Center (Egypt). Azza received the Scientific Engorgement Award in Science of Pharmacy from the National Research Center for 2011 and got a certificate of appreciation for excellence in research output for 2011 from the National Research Center. Azza's research is focused on the development of advanced drug delivery systems, such as biodegradable nanoparticles, transfersome, liposomes, chitosan nanoparticles, solid-lipid nanoparticles, liquid crystal nanoparticles, nanoemulsion and self-nanoemulsifying drug delivery systems. She co-authored 20 articles published in international journals and her work has been presented in more than 12 international conferences and workshops. She has guided 4 MSc students successfully and 7 candidates are registered under her supervision.

Education :

Certificate	Major	University	Year
PhD	Pharmaceutics	Cairo University	2008
Masters	Pharmaceutics	Cairo University	2006
Bachelor	Faculty of Pharmacy	Cairo University	2002

Teaching Experience :

Name Of Organization	Position	From Date	To Date
Department of Pharmaceutical Technology, National Research Center	Research Staff Member	01/01/2003	06/05/2014

Research :

Effect of ciprofloxacin incorporation in PVA and PVA bioactive glass composite scaffolds. Mabrouk, M. Mostafa, A. A. Oudadesse, H. Mahmoud, A.A. and El-Gohary, M. I., *Ceramics International*

Fabrication, characterization and drug release of ciprofloxacin loaded porous polyvinyl alcohol/bioactive glass scaffold for controlled drug Delivery. Mabrouk, M. Mostafa, A. A. Oudadesse, H. Mahmoud, A.A. and El-Gohary, M. I., *Bioceramics Development and Applications*

In vivo biocompatibility evaluation of injectable nano- hydroxyapatite/ poloxamer 407 based formulations. Zaazou, M. H., Zaki, D. Y., Mostafa, AS. A., Mahmoud, A. A., Basha, M., Khallaf, M., *SJR*

Rapid pain relief using transdermal film forming polymeric solution of ketorolac. Ammar, H.O., Ghorab, M. and Mahmoud, A.A., Makram, T.S. and Noshi, S.H., *Pharm. Dev. Technol.*, 18, 1005

Enhancement of human oral bioavailability and in vitro antitumor activity of rosuvastatin via novel spray dried self-nanoemulsifying. Kamel, A. O. and Mahmoud, A. A., *JBN*, 9, 1

Brain delivery of olanzapine via intranasal administration of transfersomal vesicles. Salama, H. A., Mahmoud, A. A., Kamel, A. O., Abdel Hady, M., Awad, G. A. S., *J. Liposome Res.*

Phospholipid based colloidal poloxamer-nanocubic vesicles for brain targeting via the nasal route. Salama, H. A., Mahmoud, A. A., Kamel, A. O., Abdel Hady, M., Awad, G. A. S., *Colloids and Surfaces B: Biointerfaces*, 100, 146

Biodegradable ocular inserts for sustained delivery of brimonidine tartarate: preparation and in vitro/in vivo evaluation. Aburahma, M.H. and Mahmoud, A.A. , S., *AAPS PharmSciTech*

Biodegradable ocular inserts for sustained delivery of brimonidine tartarate: preparation and in vitro/in vivo evaluation. Aburahma, M.H. and Mahmoud, A.A. , S., *AAPS PharmSciTech*

Fast relief from migraine attacks using fast disintegrating sublingual zolmitriptan tablets. Mahmoud, A.A. and Salah, S., Drug Dev. Ind. Pharm., 38, 762
Double phase hydrogel for buccal delivery of tramadol. Kamel, R., El-Feky1, G.S. and Mahmoud, A.A., Drug Dev. Ind. Pharm. 38, 468
Topical liquid crystalline gel containing lornoxicam/cyclodextrin complex. Ammar, H.O., Ghorab, M. and Mahmoud, A.A., Makram, T.S. and Noshi, S.H., J. Incl. Phenom. Macrocycl. Chem., 73, 161
Preparation and evaluation of hydrogels as a vehicle for topical delivery of lornoxicam. Ammar, H.O., Ghorab, M. and Mahmoud, A.A., Makram, T.S. and Noshi, S.H., IJDFR, 2
Chitosan/sulfobutylether- β -cyclodextrin nanoparticles as a potential approach for ocular drug delivery. Mahmoud, A.A., El-Feky1, G.S., Kamel, R. and Awad, G.E.A., Int. J. Pharm., 413, 229
6. Formulation of indomethacin eye drops via complexation with cyclodextrins. Halim, M.M.A. and Mahmoud, A.A., Curr. Eye Res., 36, 208
Development of dorzolamide hydrochloride in situ gel nanoemulsion for ocular delivery. Ammar, H.O., Salama, H.A., Ghorab, M. and Mahmoud, A.A., Drug Dev. Ind. Pharm., 36, 1330
Nanoemulsion as a potential ophthalmic delivery system for dorzolamide hydrochloride. Ammar, H.O., Salama, H.A., Ghorab, M. and Mahmoud, A.A., AAPS PharmSciTech, 10, 808
Inclusion complexation of glimepiride in dimethyl- β -cyclodextrin. Ammar, H.O., Salama, H.A., Ghorab, M. and Mahmoud, A.A., Asian Journal of Pharmaceutical Sciences, 2, 44
Implication of inclusion complexation of glimepiride in cyclodextrin-polymer systems on its dissolution, stability and therapeutic efficacy. Ammar, H.O., Salama, H.A., Ghorab, M. and Mahmoud, A.A., <i>ibid.</i> , 320, 53
Formulation and biological evaluation of glimepiride-cyclodextrin-polymer systems. Ammar, H.O., Salama, H.A., Ghorab, M. and Mahmoud, A.A., Int. J. Pharm. 309, 129
Bioactivity and drug delivering ability of a chitosan/46s6 melted bioactive glass biocomposite scaffold.
Development and Evaluation of Floating Gastroretentive Microspheres for Modified Release of Risperidone
Injectable nano-amorphous calcium phosphate based in-situ gel systems for treatment of periapical lesions
Diflucortolone valerate loaded solid lipid nanoparticles as a semisolid topical delivery system
A novel method for preparing surface-modified fluocinolone acetonide loaded PLGA nanoparticles for ocular use: in vitro and in vivo evaluations
Norflloxacin-loaded collagen/chitosan scaffolds for skin reconstruction: Preparation, evaluation and in-vivo wound healing assessment
Nanostructured lipid carriers as semisolid topical delivery formulations for diflucortolone valerate
Design and in-vitro/in-vivo evaluation of ultra-thin mucoadhesive buccal film containing fluticasone propionate
Nano spray drying technique as a novel approach to formulate stable econazole nitrate nanosuspension formulations for ocular use
Bioactive/natural polymeric scaffolds loaded with ciprofloxacin for treatment of osteomyelitis
Brinzolamide loaded-polymeric nanoparticles
Brinzolamide loaded-polymeric nanoparticles
Innovation of transdermal delivery systems for selected drugs
Development of a drug delivery system for administration of insulin by oral route
Conference :
ISACB6 Nantes France
4th Scientific Conference, Faculty of Pharmacy, Cairo University, Cairo, Egypt
3rd Scientific Conference, Faculty of Pharmacy, Cairo University, Cairo, Egypt
FUE International Conference on Pharmaceutical Technologies
FUE International Conference on Pharmaceutical Technologies

UKICRS Symposium

4th International Conference of Pharmaceutical and Drug Industries Research

Women in work exchange program between women in NENA and the UK

Women in work exchange program between women in NENA and the UK

4th International Conference of Pharmaceutical and Drug Industries Research Division

1st International Conference on Materials Science & Nanotechnology (Future challenges)

British Pharmaceutical Conference

XIII International Cyclodextrin Symposium

65th Congress of Pharmaceutical Sciences of FIP

Awards :

Award	Donor	Date
Certificate of appreciation for excellence in research output for 2011 from the National Center for Research	National Research Center	01/01/2011
Scientific Engorgement Award in Science of Pharmacy from the National Research Center for 2011.	National Research Center	01/01/2011