**Wael Ahmed Abdel-Azim Fadaly**

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**Lecturer of Pharmaceutical organic chemistry**

**Summary**

10 years of experience as a teaching assistant researcher. Comprehensive knowledge of drugdeliverythroughbiologicalbarriers,derivedfromextensivegraduatetraininginUCLSchoolofPharmacyandBeniSuefUniverisity.Multi-year ofresearchhasfocusedonskinandbuccaldrugdelivery.Researchhasprovidedpivotalinformationinunderstandingbiologicalbarrierscharacteristicsandstratigiestodeliverdrugsthroughthesebarriers.Keyresearchexpertiseareasinclude:buccaldelivery,skindelivery,andcosmetics.ProfessionalTraining includes:Permeationstudies,Chromatoghraphy,andInvivostudies.

# Experience

FacultyofPharmacy,BeniSuefUniversity,BeniSuef,Egypt 2005to2009

## Demonstrator

Experimentaldemonstrationof:

1-Dosageformulations;

2 -Physical Pharmacy;

1. Pharmacokinetics;
2. IndustrialPharmacy.

UCLSchoolofPharmacy,London,UK 2010to2011

## VisitingScientist

WorkingonPhDprojectundersupervisionofProf.JonathanHadgraftandDr.MajellaLaneatthePharmaceuticsDepartment,UCLSchoolofPharmacy.Theresearchprojectwasfocusingonthebuccaldeliveryofavarietyofdrugsandtheeffectofdifferentsolventsonthepermeationofthedrugsthroughbuccal mucosa

hPosterpresentationatSkinForum2011

Faculty ofPharmacy,BeniSuefUniversity,BeniSuef 2010to2013

## AssistantLecturer

Experimentaldemonstrationof:

1-Dosageformulations;

2 -Physical Pharmacy;

1. Pharmacokinetics;
2. IndustrialPharmacy.

Faculty ofPharmacy,BeniSuefUniveristy.,BeniSuef,Egypt 2013toPresent

## Lecturer ofPharmaceutics

**Education**

FacultyofPharmacy,CairoUniversity,BeniSuef 2003

BachelorofScience,BSc.inPharmaceuticalSciences

FacultyofPharmacy,CairoUniversity,Cairo 2009

Master ofScience,MSc. inPharmaceuticalSciences(Pharmaceutics)

Faculty ofPharmacy,BeniSuefUniversity,BeniSuef 2013Ph.D.,Ph.D.inPharmaceutics

■HPLC

■DrugDelivery

■FormulationDevelopment■LaboratoryTechniques■SkinCare

■InVivoStudies

■Permeability

■UniversityTeaching

# Skills

**ArticlesandPublications**

"Comparativepharmacokineticstudyoftwoprokinetic drugsintheformofbuccal gelsagainsttheirmarket products.."InternationalJournal of DrugDelivery.January2014.This studywastoinvestigatetheefficiencyofbuccaldosageformstodeliverpoororallyabsorbeddrugs.

Twobuccalgelformulationscontainingtwogastrokineticdrugswithloworalbioavailability;domperidoneandmosapride citrate;weretestedagainsttheirmarketproducts.Twenty-fourvolunteerswereenrolledinthis

studydividedintotwogroupsinasingledose,twotreatmentandtwoperiodscrossoverdesign.Bothbuccal

formulationsachievedhighrelativebioavailabilities(Frel)comparedtothemarket productswherebuccalgelofdomperidoneachievedFrelof202%andbuccalgelofmosapride citrateachieved162%.Thestudyreveals

theimportanceofthebuccalrouteforadministrationofpoorlyabsorbeddrugsfromthegastrointestinaltract.

"Developmentandcharacterizationofketorolactromethamineosmoticpumptablets."J.DRUGDEL.SCI.TECH.,23(3).May2013,275-281.Theaimofthepresentstudywastoprepareandevaluateelementaryosmoticpumptablets(OPT)of

ketorolactromethamine(KT).Becauseofitshighpotency,shorthalf-lifeandexcellentwatersolubilityitwouldappeartobethedrugofchoicefortheseformulations.TwentyOPTformulaewerepreparedandsubjectedtorelease-ratestudyandthereleasedatawereanalyzedtodeterminethedrugreleaseorder.CompatibilitystudybetweenKTandtheusedexcipientswascarriedoutalsoscanningelectronmicroscopyinordertoelucidatethemicroporousnatureofthetabletsurfaces.Theeffectsofanincreaseinweight,agitationintensity,pHandtypeofcoatingpolymerondrugreleasefromtheoptimalformulation(OPT-19)werestudied.ItwasfoundthattheoptimalOPTformulawasabletodeliverKTatazero-orderforupto12hindependentofbothreleasemediaandagitationrates;theeffectoftypeofcoatingpolymerwasnotsignificant

"Preparationandcharacterizationof mosapridecitrateinclusioncomplexeswith naturalandsynthetic cyclodextrins."Pharmaceutical DevelopmentandTechnology.December2011.TheaimofthisworkwastoinvestigatetheinclusioncomplexesbetweenmosapridecitrateandSBE7B-CDin

comparisonwiththenaturalB-CDtoenhanceitsbioavailabilitybyimprovingthesolubilityanddissolution

rate.ThecomplexationefficiencyvalueofSBE7B-CDwashigherthanthatforB-CD.Solidbinarysystemsof

mosapride citratewithCDswerepreparedbyphysicalmixing, kneadingandfreeze-dryingtechniquesatmolarratioof1:1(drug:CD).PhysicochemicalcharacterizationofthepreparedsystemswasstudiedusingX-raydiffractometry,differentialscanningcalorimetry,Fourier-transform infraredspectroscopyandscanningelectronmicroscopy(SEM).Amorphousdrugwasdetectabletolargeextentininclusioncomplexesprepared

usingthefreeze-dryingtechnique.From thedissolutionstudyofdifferentinclusioncomplexesinsimulatedsalivasolution(pH6.8),wecouldconcludedthatirrespectiveofthepreparationtechnique,thesystemspreparedusingSBE7B-CDshowedbetterperformancethanthecorrespondingonespreparedusingB-CD.

In

addition,thefreeze-dryingtechniqueshowedsuperiordissolutionenhancementthanothermethodsespecially

whencombinedwiththeSBE7B-CD

# Courses

EPSXXXI Conference of PharmaceuticalSciences,TheEgyptianPharmaceuticalSociety,Cairo,Egypt,2008

SkinForum12thAnnualMeeting (PenetratingtheStratumCorneum-Measurement,ModulationandModelling), SkinForum-APV,theCampusWestend,Frankfurt,Germany,2011.Participatedwithpostertitled:

"ApplicationsofCyclodextrinsinDrugDelivery"

FUEInternationalConference onPharmaceuticalSciences,FutureUniversityinEgypt,Cairo,Egypt,2013Teambuildingfor TeamLeaders,DAADKairoAkademie,BeniSuef,Egypt,2013

Self-Marketing, DAADKairoAkademie,BeniSuef,Egypt,2013

# HonorsandAwards

Awardofexcellence andfirstofCalss2003,FacultyofPharmacy,CairoUniversity(BeniSuefBranch),BeniSuef,Egypt,2003

ShorttermscholarshipforPhDlab work, Ministry ofHigherEducation,Missions Sectors,UCL SchoolofPharmacy,London,UK,2010to2011.WorkedasvisitingscientistinSkinResearchgroup.

# VolunteerWork

EgyptScholarsInc.,US 2013toPresent

## WebinarModeration TeamLeader

Supervisingandconductingmoderation forscientificwebinarsinavarietyofsubjectsadressingfreshgraduatesandscholars.