

CURRICULUM VITAE

MUHAMMAD J. HABIB, Ph.D.

Associate Dean of Academic Affairs and Professor

Business Address

College of Pharmacy
Howard University
2300 4th St., N.W.
Washington D.C. 20059
Phone: (202)-806-6529
Fax: (202)-806-7805
E-mail: mhabib@howard.edu

Residence Address

15209 Briarcliff Manor Way
Burtonsville, MD 20866
Phone: (301)-830-5867
Cell: (202)-439-7512
E-mail: mjhabib3d@gmail.com

EXECUTIVE SUMMARY

Dynamic, solution-oriented, executive leader with 28 years of professional experience and 17 years of academic leadership experience. Trained by American Council of Pharmacy Education (ACPE) on evaluation of Pharm. D. program for accreditation and participated both nationally and internationally. Research background is in formulation, drug delivery and dosage developments specifically on liposomal technology, solid dispersion and pre-formulation. Administrative focuses are on curriculum issues, professional development of the faculty and administration of the College and the Department.

EDUCATION

Post-Doctoral	Pharmaceutics, 1988 Florida A&M University, Tallahassee, FL.
Ph.D.	Pharmaceutics, 1987. University of Alberta, Edmonton, Canada.
M.Pharm.	Pharmaceutics, 1982. (1st class, 1st in rank) University of Dhaka, Bangladesh.
B.Pharm.(Hons.)	Pharmacy, 1980. (1st class, 5th in rank) University of Dhaka, Bangladesh.

AWARDS and RECOGNITION

Marquis Who's Who In America, 6th edition, 1998

National Register's Who's Who in Executives and Professionals, 2006-07
Canadian Commonwealth Scholarship, 1982-87
Alberta Heritage Foundation for Medical Research Scholarship, 1984-87
Dhaka University Scholarship, 1975-1980

EXPERIENCE

Administrative Experience

Associate Dean of Academic Affairs, College of Pharmacy, Howard University, Washington D.C. January 29, 2017 - Present

Interim Associate Dean, College of Pharmacy, Howard University, Washington D.C. Aug 8, 2016 – January 28, 2017.

Chairman, Department of Pharmaceutical Sciences, College of Pharmacy, Howard University, Washington D.C. March 15, 2002 – January 28, 2017.

Director of Graduate Program, Department of Pharmaceutical Sciences, Howard University, Washington D.C. September 1, 2013 – January 28, 2017.

Interim Director of Graduate Program, Department of Pharmaceutical Sciences, Howard University, Washington D.C. July 2009- Dec. 2010

Chairman, Department of Pharmaceutics - Faculty of Pharmacy, University of Kuwait, Kuwait. April 1, 1998 –July 1, 2000

Assistant Dean for Graduate Studies and Research - Howard University College of Pharmacy, Washington, D.C. 1995 -1998.

Accreditation and Curriculum Experience

Received training on ACPE on-site program evaluation and currently serving on ACPE on-site evaluation team.

Participated on the following Pharm.D. programs for their accreditation:

1. Campbell University College of Pharmacy, September 29-Oct 1, 2009.
2. New England School of Pharmacy on April 15-17, 2010.
3. Presbyterian College School of Pharmacy on April 5-7, 2011.
4. Chicago State University College of Pharmacy on March 27-28, 2014.
5. MCPHS University School of Pharmacy, Worcester, MA October 13-15, 2015
6. Manchester College of Pharmacy, Fort Wayne, IN, March 14-16, 2016.
7. Temple University, School of Pharmacy, Philadelphia, PA Nov 2-4, 2016

Developed and implemented a new pharmacy program in Kuwait University in 1998-2000.

Consultant on the development of a new Pharm.D. curriculum of North South University, Dhaka University and International University of Scholars in Dhaka, Bangladesh.

Served as Chairman of the Curriculum Committee during the development and implementation of new integrated curriculum at Howard University.

Participated internationally as invited speaker for the implementation of Pharm.D. program of Addis Ababa University.

Academic Experience

Professor - 2001 - present. College of Pharmacy, Howard University, Washington D.C., Tenured Faculty.

Graduate Professor - 2001 - present. Graduate School of Arts and Sciences, Howard University. Washington, D.C.

Professor - 1998 - 2000. Department of Pharmaceutics, Faculty of Pharmacy, University of Kuwait, Kuwait.

Associate Professor - 1992 - 1998. College of Pharmacy, Howard University, Washington, D.C. Tenured Faculty.

Graduate Associate Professor - 1992 - 1998 - Graduate School of Arts and Sciences, Howard University. Washington, D.C. USA.

Assistant Professor - 1988 - 1992. College of Pharmacy, Howard University, Washington, D.C. USA.

Graduate Assistant Professor - 1988 - 1992. Graduate School of Arts and Sciences, Howard University, Washington, D.C. USA.

Research Associate - 1987 – 1988. Florida A&M University College of Pharmacy, Tallahassee, Fl.

Teaching Assistant - 1982 - 1987. University of Alberta, Canada.

Courses Taught:

Graduate Courses:

Advance Physical Pharmacy - 4 credits
Drug Development Strategies- 3 credits
Principles of Drug Formulation – 4 credits
Special Topics – 3 credits
Research in Pharmaceutical Sciences

Professional Courses

Pharmaceutical Care I - 3 credits
Pharmaceutics – 4 credits
Pharmaceutical Mathematics - 3 credits
Physical Pharmacy - 4 credits
Pharmaceutical Science Laboratory - 1 credit
Pharmaceutical Technology & Lab- 4 credits
Pharmaceutical Dosage Form I - 4 credits
Pharmaceutical Dosage Form II - 4 credits
Dosage Form Design - 4 credits
Basic Pharmaceutics - 4 credits
Clinical Pharmacology/Pharmacy - 3 credits
Undergraduate Research in Pharmaceutics - 3 credits
Pharm.D. research in Pharmaceutics - 3 credits
Pharmaceutical Compounding Lab – 2 credits
Introduction to Pharmacy – 2 credits

External course offered:

Recent Advances in Drug Delivery System - This course was designed for Food and Drug Administration (FDA) reviewers and other scientists. Location - FDA building, Fishers Lane, Rockville, MD. October, 1991.

Manual development:

Developed laboratory manuals for Basic Pharmaceutics and Dosage Form Design and Pharmaceutical Science Laboratory courses. Also, developed student lecture manual for Physical Pharmacy and Pharmaceutical Technology.

Editorial Board Member:

Journal of Pharmaceutical Technology
Pharmaceutics and Novel Drug Delivery System
Archives of Pharmacy Practice
Madridge Journal of Novel Drug Research
Omics journals of Pharmaceutical Sciences

Reviewer:

Life Science
Journal of Microencapsulation

International Journal of Pharmaceutics
Pharm Science Tech
Asian Journal of Pharmaceutics
Journal of Pharmaceutical Sciences
Journal of Liposome Research

External Reviewer for Dr.Omathanu Perumal to Full Professor, South Dakota State University October 7, 2013

External reviewer for Ph.D. thesis of Mr. Adeel Arsalan, Baqai Institute of Pharmaceutical Sciences, Baqai Medical University, Karachi, Pakistan, September 1, 2016

External reviewer for grants review for Faculty of Pharmacy, Kuwait University, Kuwait, October 2, 2016.

Committees Served:

Served as Chairman of the following Committees:

Mission, Planning and Evaluation Sub Committee for the Self Study, College of Pharmacy, 2011-12
Curriculum Sub Committee for the Self Study, School of Pharmacy, 2005-06
Executive Committee, Department of Pharmaceutical Science (2002 – present)
Dean Search Committee, College of Pharmacy (2011- 12)
Curriculum and Instructional Resource Committee (2003- present)
Evaluation Committee, Graduate Program (2002-present)
Executive Committee, Graduate Program (2002-present)
Long Range Planning Committee, Graduate Program (2004 - 2007)
College Safety Committee (2002-present)
Ad-hoc Curriculum Redesign Committee (2001-2002)
Ad-hoc Criteria Development Committee for Appointment, Promotion and Tenure (2002-2004)
Search Committee for Department of Pharm. Chemistry (1999)
Appointment, Promotion and Tenure Committee (2001- 2002)
Staff Advisory Search Committee (2001-2002)
Dr. S.M. Heman-Ackah Farewell Committee (1995)
Promotion Committee (1999-2000)
Weekly Seminar Committee (1998-2000)
Resource Allocation Committee (1998-2000)
Departmental Search Committee (1998-2000)
Committee of Certification of Lab. (1998-2000)

Served as Member of the following Committees:

Dean Search Committee (2016)
RCMI internal Advisory Committee, Howard University – 2015-current

Budget Advisory Committee of the President: 2010- 15
Faculty Compensation Committee (university wide): 2012
Steering Committee, Self-Study, School of Pharmacy, 2005-06
Team Management Committee (2002-present)
University wide Safety Committee (2010 – 2015)
Admission, Retention and Recruitment Committee (2001-present)
College-wide Long-Range Planning Committee (2001-present)
Graduate Studies & Research Committee (2001-present)
Faculty Grievance Committee (2001-present)
Ad-Hoc Committee to Revise Articles of Organization (2002- 2004)
Curriculum Committee (1998-2000)
Deans Executive Committee (1998-2000)
Committee of Investigation (1998-2000)
Graduate Studies & Research Committee (1995-98)
Executive Council of the Department of Pharmaceutics (1988-90).
Graduate Faculty Assembly (1988-90).
Curriculum Task force (1989-91).
Faculty Grievance Committee (1995-98)
Curriculum and Instructional Resource Committee (1995-98)
Joint Research Advisory Committee of the University (1993-98)
Search Committee for Chairman of the Dept of Pharm. Sciences (1995-96).
Annual COPPS Faculty Award Committee (1991-98).
Special Task Force of the Dean (1991).
All Pharm.D. Curriculum Committee (1991-92).
Appointment, Promotion & Tenure Committee (1994 -95)
Committee to Revise Criteria for Appoint., Prom.& Tenure (1995-98)
Pharm.D. research Advisory Committee (1995-98)
Faculty Advisor, Research Participation Program of AACP (1994-98)
Committee on Continuing Education (1997-98)
Class Advisor for the Class of 1993, 1999 and 2003 (80 students each year)
Senate Rules Committee (2007-present).

Grantsmanship

Administrative Grants

RCMI Start-up Grant for a new faculty. US \$150,452. P.I., Funded 2010-12

Minority Faculty Fellowship Program (MFFP). Grant # 2G12RR003048-23. National Institute of Health, US\$160,000 Direct cost, 2005-08. Program Director, Funded.

Undergraduate Students Access to Research Program (USTAR) of N.I.H. Dr. Arthur Williams as P.I., US\$233,954.00 from 06/01/97 through 5/31/00. (Advisory Council Member). Responsible for College of Pharmacy program, Funded.

Research Grants

“Development and Characterization of a Subcutaneous Nanoformulation of Letrozole for Treatment of Breast Cancer”, Health sciences Faculty Seed Grant Program, \$25,000. Funded. 2010

“Formulation of Self Nano-emulsified Drug Delivery System of Cyclosporine A” NIH SCORE grant. M. J. Habib, PI, \$740,000 2008. Not funded

Government of Egypt External Research Advisorship Program- \$10,000. Supervised Mr. Ahmed Zidan, A Ph.D. Student. 2005-06

Controlled Release Delivery of Antibiotics for the Treatment of Osteomyelitis. Kuwait University Grant Program, P.I.,1998. US\$6,600.00, Funded.

Formulation of an Influenza Vaccine for Long Term Protection, Kuwait University Grant Program, P.I.,1999. US\$100,000, Funded.

Environmental Education Workshop for Pharmacists. Academic Excellence Award Program of the Howard University, P.I.,1998. US\$5,000, Funded.

Formulation, Characterization and In-vivo Performance of Hemoglobin Containing Liposomes. The MBRS Program of NIH. P.I., US\$175,518.00 (direct costs), 1996 -1998, Funded.

Liposomal Formulation of Hemoglobin with Prolonged Circulation Time. Howard University Faculty Research Support Grant., P.I., US\$25,000.00, 1993, Funded.

Formulation Development of Microencapsulated Dosage Form. Oculex Pharmaceutical Inc, CA., P.I., US\$10,000, 1993, Funded.

In-vitro and in-vivo Evaluation of Hemoglobin Containing Liposomes for Improvement in Circulation Time. Parenteral Drug Association's research development grant., P.I., US\$15,000.00, 1991-93, Funded.

Preparation and In-vitro Characterization of Hemoglobin Containing Liposomes. AACP Research Participation Program., P.I., US\$3,500.00, 1992, Funded.

In-vivo Bioavailability Studies of Indomethacin in Cyclodextrin Inclusion Complexes. Minority Research awareness program of the Graduate School of Arts and Sciences of Howard University., P.I., US\$3,500.00, 1992, Funded.

Studies of Liposomes as a New Distribution Model for QSAR Studies of NSAIDs. Research awareness program of the Graduate School of Arts and Sciences of the Howard University., P.I., US\$3,500.00, 1992, Funded.

Stable Drug Formulation for Oral Administration. H. U. Faculty Research Support Grant.,P.I., US\$50,000.00, 1989, Funded.

A Study of the Pro-drugs of Selected Anti-epileptic Drugs for their Improved Dissolution Behavior in Phospholipid Coprecipitate. Collaborative Core Unit Research Grant of the Graduate School of Arts and Sciences, Howard University. P.I., US\$40,000.00, 1989-90, Funded.

Formulation of Hemoglobin containing Liposomes for Extended Circulation Time. Howard University Faculty Research Support Grant., P.I., US\$50,000.00, 1990, Funded.

Book

Pharmaceutical Solid Dispersion Technology. Published by CRC Press, USA. ISBN 1-56676-813-6. 2001.

Book Chapters

"Historical Background of Solid Dispersions", in Pharmaceutical Solid Dispersion Technology. Chapter 1, pp. 1-6, Published by Technomic publishing Co, PA. ISBN 1-56676-813-6. 2001.

"Fundamentals of Solid Dispersions", in Pharmaceutical Solid Dispersion Technology. Chapter 2, pp. 7-35, Published by Technomic Publishing Co, PA. ISBN 1-56676-813-6. 2001.

"Stabilization of Local Anesthetics in Liposomes", in Pharmaceutical Technology : Drug Stability. Chapter 2, pp.24-39. Published by Ellis Horwood Limited, a division of John Wiley & Sons. New York. ISBN 0-470-21411-2. 1989.

Invited Speaker

University of Dhaka, Bangladesh. "Discovering More Opportunities than we see for our Pharmacists in Bangladesh", July 23, 2016

College of Pharmacy, Howard University, Annual Retreat, "Major Changes in Standard 2016", June 28, 2016

Howard University College of Pharmacy Junior Faculty Orientation Seminar, "Effective Mentorship?" April 13, 2015

University of Dhaka, Bangladesh. Topic "Transition from B.S. to Pharm.D. program – A case study in US Pharmacy School" July 27, 2015.

College of Pharmacy, Howard University, Annual Retreat, "Focused Site Visit", May, 14, 2014

North South University, Dhaka, Bangladesh, "Need for a Change: Pharm.D. Education in Bangladesh" July 3, 2013.

Howard University College of Pharmacy Promotion and Tenure Orientation Seminar, "Are you APT Ready?" May 31, 2012

College of Pharmacy, Howard University, Annual Retreat, "Self-Study Tips", May, 20, 2011

University of Dhaka, Bangladesh, "A Case Study of Curriculum Change in U.S. Pharmacy Education", June 28, 2011

North South University, Dhaka, Bangladesh. Topic "Globalization of Pharmacy Education" July 24, 2010.

Twinning Partnership between Addis Ababa University School of Pharmacy and Howard University School of Pharmacy, "Pharmacy Curriculum in USA", August 4, 2008

Twinning Partnership between Addis Ababa University School of Pharmacy and Howard University School of Pharmacy, "curriculum development of clinical pharmacy of the Addis Ababa University, Ethiopia", August 5, 2008

Twinning Partnership between Addis Ababa University School of Pharmacy and Howard University School of Pharmacy, "Need for Professional Organizations in Pharmacy in Ethiopia", August 6, 2008

BAPA Annual Convention, "Pharmacy Education for the 21st century" August 10-12, 2007, Danbury, CT.

Pharmacy Symposium organized by BAPA/PGA of Bangladesh on, "Global Trends in Pharmacy Education" and "Pharmacy Education: Tools and Techniques" December 29, 2007

Pharmacy Symposium organized by BAPA/PGA of Bangladesh on, "Pharmacy Education: Tools and Techniques" December 29, 2007

Water Insoluble Drug Delivery Conference: Innovative Preformulation and Formulation Approaches for Improved Delivery, "Phospholipid Solid Dispersions: Physical Properties, Dissolution and Bioavailability"– July 18-20, 2005, Philadelphia, PA

Guest speaker on Ask the Pharmacy Doctor, WRC AM 980 radio program, Silver spring, MD 3/23/97.

FDA, Rockville, MD, "Recent Advances in Drug Delivery Systems" to FDA scientists and reviewers, October, 1991.

Public Service

TV Appearance

Worked on a vitamin project with WRC-TV4 of NBC network television and appeared on NBC TV morning show to improve public awareness and safety. The project was funded in the amount of US\$2,200.00. The results of the project revealed startling information, which was televised in mid-November on local (WRC-TV) and national (NBC Network) TV stations. The response from the public was overwhelming and provided good publicity for Howard University.

Postdoctoral Fellows Mentored:

Dr. Michael E. Reynolds, Post-doctoral research associate, 4/10/96 to 5/30/98.
Dr. Clement O. Akogyeram, post-doctoral research associate, 9/1/92 to 8/31/94.

Graduate Students Mentored:

Frank O. Ohwoavworhua, "Synthesis and Characterization of Low Molecular Weight Liquid Crystalline Nanoparticles Designed for Delivery of Drugs" Dissertation Committee Member, April 15, 2016

Keeshaloy Thompson, "Comprehensive Phase I Metabolism Studies for $\alpha 4\beta 2$ Nicotinic Acetylcholine Receptor Ligands and Integrated Study of Human Angiotensin Receptor Inhibitors." Ph.D. thesis, Dissertation Committee Chairman. 2015.

Nahid Kamal, Visiting Scholar from Long Island University, NY, "Liposomal Citalopram HBr for Targeted Brain Delivery" Ph.D. Research Advisor, April 2014.

Ewan Cobran, "Cross-Comparison of Native-born and Caribbean-born African American Males: Prostate Cancer Fatalism, Screening, and Perception of Treatment" Ph.D. thesis, Dissertation Committee Chairman, 2012.

Mr. Chintan Banushali, "Porous Microparticles for Inhaled Therapy of Multi-drug Resistant Tuberculosis (MDR-TB)" Ph.D. Research Advisor, April 6, 2012

Crystal Spinks, "Liposomal Drug Delivery of Tenofovir" Ph.D. Research Advisor, May 11, 2011.

David Awotwe-Otoo, "Characterization and evaluation of Protamine Sulfate from different sources to determine product similarities and/or differences" Ph.D. Research Advisor, October 22, 2011.

Henry North, "Anti-epileptic compounds." Ph.D. thesis, Dissertation Committee Chairman. 2011

Jarrold Collier, "Influence of commonly used excipients on physical and chemical stability of levothyroxin sodium" Ph.D. student. Research advisor, 4/1/05-2011

Zufan Debebe, "Inhibition of Human Immunodeficiency Virus-1 by Iron Chelators: Effect of Iron Chelators on HIV-1 transcription and Estimation of drug absorption in Caco-2 monolayers using an HPLC method." Ph.D. thesis, Dissertation Committee Chairman. 2009.

Benedict Arrey, "Effects of the dopamine Receptor 2(DRD2) and its Genetic Variants; on Smoking and Nicotine Dependence in African Americans" Ph.D. thesis, Dissertation Committee Chairman. 2009.

Anna Teschemaker, "Cost Effectiveness of anticoagulation care versus genetic testing of CYP2C9 and BKORC1 genes." Ph.D. thesis, Dissertation Committee member. 2009.

Patrice L. Jackson, "The Synthesis of a Novel Series of Benzene Sulfonamide Enaminone Derivatives as Potential Anticonvulsant Agents" Ph.D. thesis, Dissertation Committee Chairman, 2009

Blessing O. Enagbare, "Using Near Infra-red Spectroscopy to Monitoring Moisture Content and Metoprolol Succinate Concentration During Fluid bed Coating Process and Dissolution Characterization of Metoprolol Succinate Coated with Surelease Polymer" M.S. Research Advisor, 2008.

Ahmed Zidan, Visiting Scholar from the University of Zagazig, Egypt, "A contribution for improving the pharmaceutical properties of certain drugs in solid dosage forms" Ph.D. thesis, Research Advisor, graduated in April 31, 2006.

Kendall Evans from College of Medicine. "Formulation of Hemoglobin Containing Liposomes for extended Circulation Time". Ph.D. student, Research advisor, 1996-1998.

Samuel Onyilofor, "Formulation of Ofloxacin sustained release preparation" Ph.D. Research Advisor, July 10, 1999.

Pharm.D. Students Mentored

Mentored several Pharm.D. students for their research. Representative samples are given below:

Mr. Bijan Ahmadi, Pharm.D. student. Research project title: Dissolution Characteristics of Indomethacin in Cyclodextrins and Phospholipids. 1992-93

Ms. Afrouz Nayernama, Pharm. D. student. Research project title: QSAR Studies of NSAIDs Using Liposomes as the Distribution Model. 1993-94

Mr. Roland Mesue, Pharm. D. Student. Research project Title: Controlled Release of Ketoprofen Using Polymeric Bead Technology. 1994-95

Mr. Dawit Tsegaye, Pharm.D. student. Research project title: Sustained delivery of Indomethacin Using PLGA Polymers. 1996-97

Ms. Heather James, Pharm.D. student. Research project title: Improved Dissolution of Mefenamic Acid in Coprecipitates. 1996-97

Mr. Maru Alemayehu, Pharm.D. student. Research project title: Laser-Induced Release of Dye from Liposomes. 1996-97

Ms. caroline Osilesi, Pharm.D. student. Research project title; Liposomal Formulation of tacrolimus (Prograf) for Use in Cellular Transplantation. 1996-1997.

Computer Skills

Excellent working knowledge of various word processing, graphics, spreadsheets and other programs.

Workshops and CE Courses Attended

Recent Advances in Controlled Release Technology. Coordinator - Dr. Robert Langer at the Massachusetts Institute of Technology (M.I.T.)

Seven Habits of Highly Effective People" a management leadership workshop by Steven Covey.

"Teaching Teachers to Teach Problem Solving"-by Dr. Donald R. Woods, Professor of Chemical Engineering at McMaster University, Canada. Sponsored by AACCP.

Liquid chromatography (University of Alberta)

Medical & Scientific writing (University of Alberta)

Grantsmanship seminars (AAPS conferences).

Helping Students Write Better Lab Reports – Center of Excellence in Teaching, Learning and Assessment, Howard University.

Prepare Students for better Test taking Skills – Center of Excellence in Teaching, Learning and Assessment, Howard University.

Webcast on Assessment (Middle State Commission) – Center of Excellence in Teaching, Learning and Assessment, Howard University.

Teaching the Net Generation – by Teresa Redd, CETLA –September 12, 2007

Faculty Recruitment retention and enrichment workshop, AACP Institute, May 19-22, 2008

ACPE Site Visit Training, October 16-17, 2008

Mentoring Students - by Teresa Redd, CETLA –March 3, 2009

Principles and Profiles of Good Practice in Assessment, CETLA, January 28, 2010

Faculty Development Workshop: “Maximizing the Potential of a dynamic curricular map” by Mr. Thomas Waters, University of Pittsburgh school of Pharmacy Feb 4, 2011

Cetla’s lecture on Flipping technology Oct 22, 2014

Cetla’s lecture on Pollseverywhere on Oct 29, 2014

AACP Encore Institute training on Experiential education to be held on October 17-19, 2016, Hilton Washington, Dulles, VA

HONORS AND AFFILIATIONS

Sigma Xi Scientific Society
Rho Chi Honor Society
American Association of Pharmaceutical Scientists
American Association of Colleges of Pharmacy
Controlled Release Society

RESEARCH INTERESTS

1. Stability and dissolution aspect of drug delivery system.
2. Controlled drug delivery using novel techniques.
3. Preformulation studies of drugs applying various physico-chemical techniques.
4. Formulation and development of solid, semisolid and liquid dosage forms.
5. Use of liposomes in drug delivery systems.

PERSONAL DATA

DATE OF BIRTH: December 6, 1957.
MARITAL STATUS: Married with three children.
HEALTH: Excellent.
CITIZENSHIP: USA.

LIST OF PUBLICATIONS, ABSTRACTS AND PRESENTATIONS

PUBLICATIONS

1. Kamal, N., Zidan, A. S., **Habib, M.J.**, and Karla, P., "BBB GLUT-Transporter Targeting with N-acetyl Glucosamine Coated Pegylated Multilamellar Liposomes", Trends in Drug Delivery, submitted, 2017.
2. Crystal B. Spinks, Ahmed Zidan, Mansoor A. Khan, **Muhammad Habib**, and Patrick J. Faustino, "Pharmaceutical characterization of novel tenofovir liposomal formulations for enhanced oral drug delivery: in vitro pharmaceutics and Caco-2 permeability investigations", Clinical Pharmacology: Advances and Applications, Accepted, 2016.
3. Kamal, Nahid; Cutie, Anthony; **Habib, Muhammad J**; Zidan, Ahmed S, "QbD approach to investigate product and process variabilities for brain targeting liposomes" Journal of Liposome Research, 25 (3):175-190, 2015.
4. Zidan, A and **Habib, M**, "Maximized mucoadhesion and skin permeation of anti-AIDS-loaded niosomal gels" J. Pharm. Sci., 103 (3). 952-964, 2014.
5. Bhanushali Chintan J, Zidan Ahmed S, Rahman Ziyaur and **Habib Muhammad J**, "Reversed phase ion pair chromatography for simultaneous determination of ethionamide and pyrazinamide from porous microparticles", PharmSciTech, 14:1313-20, 2013.
6. Zidan, Ahmed; Spinks, Crystal; **Habib, Muhammad**; Khan, Mansoor, "Formulation and transport properties of tenofovir loaded proliposomes through Caco-2 cell model" J Liposome Res, 23(4), 318-326, 2013.
7. Chintan Bhanushali, Krishna Kumar, Anthony Wutoh, Spiridon Karavatas, **Muhammad J. Habib**, Marlon Daniel and Euni Lee "Association Between Lifestyle Factors and Metabolic Syndrome Among African Americans in the United States," J Nutrition and Metabolism, 2013: 516475, 2013.
8. David Awotwe-Otoo, Cyrus Agarabi, David Keire, Sau Lee, Andre Raw, Lawrence Yu, **Muhammad J. Habib**, Mansoor A. Khan and Rakhi B. Shah, "Physicochemical Characterization of Complex Drug Substances: Evaluation of Structural Similarities and Differences of Protamine Sulfate from Various Sources" AAPS J. 14:619-26, 2012.
9. David Awotwe-Otoo, Ahmed Zidan, Ziyaur Rahman and **Muhammad Habib**, "Evaluation of anticancer drug-loaded nanoparticle characteristics by Non-destructive methodologies", PharmSciTech, 13:611-622, 2012
10. David Awotwe-Otoo, Cyrus Agarabi, Patrick J. Faustino, **Muhammad J. Habib**, Sau Lee, Mansoor A. Khan and Rakhi B. Shah, "Application of Quality by Design

Elements for the Development and Optimization of an Analytical Method for Protamine Sulfate”. *Journal of Pharmaceutical and Biomedical Analysis*. 62, 61-67, 2012.

11. J. W. Collier, R. B. Shah, A. R. Bryant, **M. J. Habib**, M. A. Khan, P. J. Faustino, “Development and application of a validated HPLC method for the analysis of dissolution samples of levothyroxine sodium drug products” *Journal of Pharmaceutical and Biomedical Analysis*. 54, 433-438, 2011.
12. Sabiruddin Mirza, Inna Miroshnyk, **Muhammad J. Habib**, James F. Brausch and Muhammad D. Hussain, “Enhanced Dissolution and Oral Bioavailability of Piroxicam Formulations: Modulating Effect of Phospholipids” *Pharmaceutics*, 2(4), 339-350, 2010.
13. Shah, R.B., Jarrod S. Collier, Sayeed, V.A., Bryant, A., **Habib M.J**, Khan, M.A, “Tablet splitting of a narrow therapeutic index Drug: A case with Levothyroxine Sodium”. *APS PharmSciTech*. 11(3), 1359-1367, 2010.
14. Collier, Jarrod; Shah, Rakhi; Gupta, Abhay; Sayeed, Vilayat A; **Habib, Muhammad**, and Khan, Mansoor A., "Influence of formulation and processing factors on stability of levothyroxine sodium pentahydrate". *PharmSciTech*. 11(2), 818-825, 2010.
15. Ahmed S. Zidan, Crystal Spinks, Joseph Fortunak, **Muhammad Habib** and Mansoor A. Khan, “Near-infrared investigations of novel anti-HIV Tenofovir Liposomes”. *The AAPS Journal*, Vol.12, No.2: 202-214, 2010.
16. Zidan, Ahmed, Rahman, Ziayur, **Habib, Muhammad** and Khan, Mansoor, “Spectral and spatial characterization of protein loaded PLGA nanoparticles”. *J. Pharm Sci*, 99(3):1180-92, 2010.
17. Rahman, Z., Zidan, A.S., **Habib, M.J.** and Khan, M.A., “Understanding the Quality of Protein Loaded PLGA Nanoparticles Variability by Plackett-Burman Design”, *Int. J. Pharmaceutics*, 389, 186-194, 2010.
18. Shah, R.B., Bryant, A., Collier, J., **Habib, MJ**, Khan, MA, “Stability Indicating Validated HPLC Method for Quantification of Levothyroxine with Eight Degradation Peaks in the Presence of Excipients”, *Int. J. Pharmaceutics* 360, 77-82, 2008.
19. Zidan, A.S., **Habib, M.J.**, and Khan, M.A., Process Analytical Technology: Nondestructive Evaluation of Cyclosporine A and Phospholipid Solid Dispersions by Near Infrared Spectroscopy and Chemical Imaging” *J Pharm. Sci.*, 97(8):3388-99. 2008.
20. Zidan, A.S., Sammour, O.A., Hammad, M.A., Megrab, N.A., **Habib, M.J.**, and Khan, M.A., “Process Analytical Technology: Nondestructive Assessment of

Anastrozole Entrapment within PLGA Microparticles by Near Infrared Spectroscopy and Chemical Imaging”, *J. Microencapsulation*, 25:145-53, 2008.

21. Ahmed S. Zidan, Omaira A. Sammour, Mohammed A. Hammad, Nagia A. Megrab, **Muhammad J. Habib**, and Mansoor A. Khan, “Quality by Design: Understanding the Formulation Variables of a Cyclosporine A Self-nanoemulsified Drug Delivery Systems by Box-Behnken Design and Desirability Function” *Int J Pharmaceutics*. 332:55-63, 2007
22. Zidan, A.S., Sammour, O.A., Hammad, M.A., Megrab, N.A., **Habib, M.J.**, and Khan, M.A., “Quality by Design: Understanding the Product Variability of a Self-Nanoemulsified Drug Delivery System of Cyclosporine A”, *J Pharm Sci*, 96, 2409-23, 2007.
23. **Muhammad Habib** and Sharif Ahmed, “Update Pharmacy Curricula: A Wake up Call for Bangladeshi Pharmacy Schools” *BAPA Journal*, 16, 15-17, 2007.
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