



Dr Ahmed Faheem

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Career History

2015 - Present	Senior Lecturer in Pharmaceutics School of Pharmacy and Pharmaceutical Sciences, University of Sunderland, UK
2010 - 2015	Course Director MSc in Pharmaceutical Sciences School of Pharmacy and Pharmaceutical Sciences, University of Ulster, UK
2009 - 2010	Lecturer in Pharmaceutics School of Pharmacy and Pharmaceutical Sciences, University of Ulster, UK
2008 - 2009	Postdoctoral Research Fellow School of Pharmacy, Queen's University of Belfast, UK
2007 - 2008	Postdoctoral Research Fellow Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde in Glasgow, UK
2006 - 2007	Lecturer in Pharmaceutics University of Tanta, Egypt
2002 - 2005	Teaching Assistant in Pharmaceutics (Part-Time) School of Pharmacy, University of London
1999 - 2001	Assistant Lecturer in Pharmaceutics University of Tanta, Egypt
1991 - 1998	Demonstrator in Pharmaceutics University of Tanta, Egypt

Academic and Professional Qualifications

1991	BSc in Pharmaceutical Sciences University of Tanta, Egypt
1998	MSc in Pharmaceutical Technology University of Tanta, Egypt
2006	PhD in Pharmaceutics (Nanoparticulate Drug Delivery) UCL School of Pharmacy, London, UK
2010	PgCHEP (Postgraduate Certificate in Higher Education Practice) University of Ulster, UK

Positions of Responsibility

- In 2009, I played a key role in developing the area of pharmaceutics towards the establishment of a new School of Pharmacy and Pharmaceutical Sciences at Ulster University. I participated actively in all accreditation events for the MPharm degree programme by the professional body from step 2 to step 5 until the programme was fully accredited in 2013. I participated also in the full accreditation of the Mpharm programme according to the new educational standards of the General Pharmaceutical Council in 2015 for a

full 6 years period.

- **Course Director:** PgDip/MSc Pharmaceutical Sciences (**Ulster University**).
- **Module Leader and designer** of the undergraduate year 2 MPharm module, "Physical Pharmacy" (PHA307) and year 3 MPharm module, "Dosage Form Design" (PHA 514), year 4 MPharm elective module "Pharmaceutical Nanotechnology" (PHA717) and the postgraduate MSc Pharmaceutical Sciences module "Pharmaceutics and Drug Delivery Systems" (PHA716) (**Ulster University**).
- **Module coordinator:** PBFM01(Dosage Form Design and Pharmacokinetics), contribution to PBFM02 (Protein and Gene Delivery) and PBFM03 (Nanotechnology) (MSc in Pharmaceutical and Biopharmaceutical Formulations) (**University of Sunderland**).

MPharm Integratd Course: Delivery of Pharmaceutics contents on modules:

- **MPH116:** Healthy systems: from patient to gene.
- **MPH209:** Fundamental therapeutics: from molecule to medicine.
- **MPH210:** Clinical therapeutics: from medicine to patient.
- **MPH327:** Diseased systems: Endocrine and genitourinary systems.
- **MPHM17:** Diseased systems: Principles of oncology, infection control and immunology (**University of Sunderland**).
- **I participated actively in the re-accreditation of the MPharm degree programme for a full 6 years period in 2018 for a full 6 years period.**

Postgraduate Research (PhD) Supervision

- **N. Uddin (2017-) Project Title:**"Nanoparticles as drug delivery vehicles for glioblastoma"
- **S. Girgi (2016)** "Development of targeting strategies for metastatic cancer using nanoparticles"
- **H. Al-Sanaa (2015-)** "Development of novel liposomal gene delivery systems"
- **D. Abdelkader (2014-2017)** "Development of particulate carriers for delivery and targeting of biotherapeutics" (Channel system with Tanta University-Egypt)
- **L. Spears (2014-2017)** "Peptide-loaded, shear sensitive hydrogels as a novel topical delivery system for wound management and repair" (Collaboration with Ulster University)
- **A. Abuelhana (2014-2016)** "The development of a model to inform the appropriate skill mix for pharmacy workforce to achieve the optimisation of both patient outcome and cost effectiveness" (Channel system with Misr University for Science and Technology, Egypt)
- **N. Ali (2014-2016)** "Synthesis, targeting and triggering of functional nanoplasmids" (Channel system with Misr University for Science and Technology, Egypt)
- **A. Sharma (2013-2016) Project Title:** "Development of nanoparticulate delivery systems for anti-metastatic Ran-GTPase biotherapeutics"
- **Y. Haggag (2013-2016) Project Title:** "Biodegradable nanoparticles as potential delivery system for anti-metastatic Ran-GTPase peptides" (Channel system with Tanta University-Egypt)
- **N. Craythorne (2010-14) Project Title:** "Nanoparticles as potential drug delivery systems for antidiabetic peptides".
- **A. Winder (2009-2013) Project Title:** "Development and characterization of anti-biotic loaded, stress sensitive hydrogel materials for topical treatment of colonized ulceration"
- **G. Bode-Animashaun (2009-2013) Project Title:** "Development and characterization of photo-antimicrobial hydrogel materials for topical treatment of colonised ulceration"
- Supervision of MSc research students.
- Supervision of MPharm project students.

Committee Membership

- MPharm Course Board
- Ethics Filter Committee
- Teaching and Learning Committee
- Pharmaceutical Sciences Research Group
- PgDip/MSc Pharmaceutical Sciences Course Board
- School of Pharmacy and Pharmaceutical Sciences Board
- School of Pharmacy Staff/Student Consultative Committee
- Faculty representative for Race Equality Charter Mark Trial

Society Membership

- Fellow of the Higher Education Academy (HEA), UK.
- Member of APGI (Association de Pharmacie Galenique Industrielle/International Society of Drug Delivery Sciences and Technology).

- Member of the Academic Pharmacy Group (APG), The Royal Pharmaceutical Society of Great Britain (RPSGB).
- Member of the American Association of Pharmaceutical Scientists (AAPS).
- Member Egyptian Syndicate of Pharmacists.
- Member of the Advisory Board of the Egyptian Research and Education Organisation in UK (EREO UK).
- Member of the executive committee of the Egyptian Society of Northern Ireland (ESNI).
- Head of the Egyptian Students Union in UK and Ireland (2004-2005).

Awards

- PhD Grant of the Ministry of Higher Education, the Egyptian Government, £50,000 (2002-2006)
- Proof of Principle Research Grant, University of Ulster. "Nanoparticles as potential oral delivery systems for glucagon-like peptide-1 analogues". £10,000 (2009-2010).
- "Academic Consultant for a Fusion Programme (All-Ireland Knowledge Transfer Initiative) funded Research Project," Development and commercialisation of a tablet version of a retinoid x receptor (RXR) product for the treatment of a specific type of non-Hodgkin lymphoma", between the School of Pharmacy and Eirgen Pharma Ltd, Waterford, Ireland Fusion proEirgen Pharma Limited, Waterford, Ireland, £45,750 (2010 -2011)

Reach-Out and Research Programmes

Development of Research Collaboration with Tanta University in Egypt funded by the Egyptian Government via the channel system which involves the following research projects:

- "Biodegradable nanoparticles as a potential delivery system for antimetastatic Ran-GTPase peptides", (September 2013-September 2015) (£30,000).
- "Development of particulate carriers for delivery and targeting of biotherapeutics", (March 2014-March 2016) (£30,000).

Development of Research Collaboration with Misr University for Science and Technology in Egypt which involves the following research projects:

- "The Development of a model to inform the appropriate skill mix for a pharmacy workforce to achieve the optimisation of both patient outcome and cost effectiveness", (October 2014-October 2016) (£30,000).
- "Synthesis, targeting and triggering of functional Nanoplasmids", (October 2014-October 2016) (30,000).

Conferences and Meetings

- Member of the organising committee for the 2nd conference of Schools of Pharmacy in the Arab World, Tanta, Egypt (20-22/10/1999)
- 31st Annual meeting and exposition of the Controlled Release Society (CRS), Honolulu, USA (12-16/6/2004)
- European Workshop of Pharmaceutical Scientists (EWPS), London, UK (1-3/7/2004)
- The British Pharmaceutical Conference (BPC), Manchester, UK (27-29/9/2004)
- The Annual Meeting and exposition of the American Association of Pharmaceutical Scientists (AAPS), Baltimore, USA (7-11/11/2004)
- Meeting: "From concept to compound: Opportunities for industry from the Strathclyde Institute of Pharmacy and Biomedical Sciences", Strathclyde University, 20th June 2007
The Young Life Scientists Symposium, Strathclyde University, 8th July 2007
- The British Pharmaceutical Conference (BPC), Manchester, UK (10-12/9/2007) 16th Conference on Retroviruses and Opportunistic infections (CROI), Montreal, Canada(8-11/2/2009)
- The Annual Meeting and exposition of the American Association of Pharmaceutical Scientists (AAPS), Los Angeles, USA (7-11/11/2009)
- University of Ulster 8th annual e-Learning conference, Belfast, UK (21st January 2010)
- RPSGB Academic Pharmacy Group Conference: "New Education Standards: Managing the change in Pharmacy Education", Bath, UK (4-5/3/2010)
- University of Ulster 9th annual e-Learning conference, Belfast, UK (20th January 2011) UK-PharmSci 2011 Conference, Nottingham, UK (31/8-2/9/2011)
- All-Ireland Schools of Pharmacy meeting 2012, University College Cork, Ireland (2-3/4/2012)
- All-Ireland Schools of Pharmacy conference 2013, University of Ulster, Belfast (25-26/3/2013)
- All-Ireland Schools of Pharmacy conference 2014, Trinity College Dublin, Dublin (14-15/4/2014)
- The Annual Meeting and exposition of the American Association of Pharmaceutical Scientists (AAPS), San Diego, USA

(2-6/11/2014).

- All Ireland Schools of Pharmacy conference 2015, Queen's University Belfast (30-31/3/2015),
- Controlled Release Society (CRS) 2015 Annual Meeting, Edinburgh, UK (26-29/7/2015).
- The 5th APS International PharmSci 2015 Conference, Nottingham, UK (7-8/9/2015).
- The Annual Meeting and exposition of the American Association of Pharmaceutical Scientists (AAPS), Orlando, USA (25-29/11/2015).
- University of Sunderland 2016 Research Conference, 7 Jan 2016, University of Sunderland, UK
- The 6th APS International PharmSci 2016 Conference, University of Strathclyde, Glasgow, UK (5-7/9/2016)
- Gamlen Instruments User Group Meeting, Imperial College London, UK 22/2/2017)
- The 6th APS International PharmSci 2017 Conference, University of Hertfordshire, Hatfield, UK (5-7/9/2017)
- The Annual Meeting and exposition of the American Association of Pharmaceutical Scientists (AAPS), San Diego, USA (12-15/11/2017).
- The 1st International Pharmaceutical Sciences Conference "Drug Development: From Benchside to Bedside", Menoufia University, Shebeen El-Kom, Egypt (11-12/8/2018).
- The 7th APS International PharmSci 2018 Conference, Glasgow, UK (7/9/2018)
- The International Conference of Pharmaceutical Sciences, Misr University for Science and Technology, 6th October City, Egypt (27-28/10/2018).
- The American Association of Pharmaceutical Scientists (AAPS) PhaemSci 360 Conference, Washington DC, USA (5-7/11/2018).

Invited Speaker at the Following Prestigious events:

- Invited Speaker at Nanotechnologies in Drug Delivery Congress, London, UK (27-28/4/2015). Talk title: "Controlled release of nanomedicines – current trends and advances in carrier systems"
http://www.mnmconferences.com/nanotechnologies_speaker.html
- Keynote speaker at the 2nd International Conference on Nanotechnology based Formulations: Nano Pharmaceuticals, Hyderabad, India (10-11/9/2015). Talk title: "Development of particulate carriers for delivery of novel anti-metastatic peptide therapeutics" <http://selectbiosciences.com/conferences/index.aspx?conf=NP15&se=india>
- Invited speaker at the "Nanoassemblr User Group Meeting", Aston University, Birmingham, UK (8/11/2015)
Talk title: "Microfluidics as a tool in formulation of nanopharmaceuticals"
- Keynote speaker at the Pharmaconex 2017 Conference, Cairo, Egypt (8-10/4/2017) Talk title: "3D Tablet Printing and Applications in the Area of Personalised Medicine"
- Keynote speaker at the the 1st International Pharmaceutical Sciences Conference "Drug Development: From Benchside to Bedside", Menoufia University, Shebeen El-Kom, Egypt (11-12/8/2018). Talk title: "3D tablet printing: Is it a step closer for personalised medicine?"
- Keynote speaker at The International Conference of Pharmaceutical Sciences, Misr University for Science and Technology, 6th October City, Egypt (27-28/10/2018).Talk title: "Printable customised tablets: Is it the next big thing in personalised medicine?"

Selected Research Publications

- Haggag, Yusuf, Osman, Mohamed, El-Gizawy, Sanaa, Goda, Ahmed, Shamloula, Maha, Faheem, Ahmed and McCarron, Paul (2018) "Polymeric nano-encapsulation of 5-fluorouracil enhances anti-cancer activity and ameliorates side effects in solid Ehrlich Carcinoma-bearing mice". Biomedicine and Pharmacotherapy, 105.PP. 215-224. <https://doi.org/10.1016/j.biopha.2018.05.124>
- Abdelkader, D. H., Osman, M. A., El-Gizawy, S. A., Hawthorne, S. J., Faheem, Ahmed and McCarron, P. A (2018), "Human Insulin- PLGA NP Administered Orally after Combination with a Protease Inhibitor (N-Ethylmaleimide) in vivo Results". Letter to Editor, J Pharm Drug Deliv Res 7 (1). ISSN: 2325-9604
- Emran, Mohammed Y., Shenashen, Mohamed A., Mekawy, Moataz, Azzam, Ahmed M., Akhtar, Naeem, Gomaa, Hassenien, Selim, Mahmoud M., Faheem, Ahmed and El-Safty, Sherif-A (2018) Ultrasensitive in-vitro monitoring of monoamine neurotransmitters from dopaminergic cells. Sensors and Actuators B: Chemical, 259. pp. 114-124. ISSN 09254005
- Abdelkader, D. H., Osman, M. A., El-Gizawy, S. A., Hawthorne, S. J., Faheem, Ahmed and McCarron, P. A. (2018), "Effect of poly(ethylene glycol) on insulin stability and cutaneous cell proliferation in vitro following cytoplasmic delivery of insulin-loaded nanoparticulate carriers – A potential topical wound management approach". European Journal of Pharmaceutical Sciences, 114. pp. 372-384. ISSN 0928-0987
- Emran, Mohammed Y., Mekawy, Moataz, Akhtar, Naeem, Shenashen, Mohamed A., EL-Sewify, Islam M., Faheem, Ahmed and El-Safty, Sherif A. (2018) Broccoli-shaped biosensor hierarchy for electrochemical screening of noradrenaline in living cells. Biosensors and Bioelectronics, 100. pp. 122-131. ISSN 09565663

- Abdelkader, Dalia H., El-Gizawy, Sanaa A., Faheem, Ahmed, McCarron, Paul A. and Osman, Mohamed A. (2018) Effect of process variables on formulation, in-vitro characterisation and subcutaneous delivery of insulin PLGA nanoparticles: An optimisation study. *Journal of Drug Delivery Science and Technology*, 43. pp. 160-171. ISSN 17732247
- Emran, Mohammed Y., Khalifa, Hesham, Gomaa, Hassanien, Shenashen, Mohamed A., Akhtar, Naeem, Mekawy, Moataz, Faheem, Ahmed and El-Safty, Sherif A. (2017) Hierarchical C-N doped NiO with dual-head echinop flowers for ultrasensitive monitoring of epinephrine in human blood serum. *Microchimica Acta*, 184 (11). pp. 4553-4562. ISSN 0026-3672
- Akhtar, Naeem, Emran, Mohammed Y., Shenashen, Mohamed A., Khalifa, Hesham, Osaka, Tetsuya, Faheem, Ahmed, Homma, Takayuki, Kawarada, Hiroshi and El-Safty, Sherif-A (2017) Fabrication of photo-electrochemical biosensors for ultrasensitive screening of monobioactive molecules: the effect of geometrical structures and crystal surfaces. *J. Mater. Chem. B*, 5 (39). pp. 7985-7996. ISSN 2050-750X
- Haggag, Yusuf A., Faheem, Ahmed, Tambuwala, Murtaza M., Osman, Mohamed A., El-Gizawy, Sanaa A., O'Hagan, Barry, Irwin, Nigel and McCarron, Paul A. (2017) Effect of poly(ethylene glycol) content and formulation parameters on particulate properties and intraperitoneal delivery of insulin from PLGA nanoparticles prepared using the double-emulsion evaporation procedure. *Pharmaceutical Development and Technology*. pp. 1-12. ISSN 1083-7450
- Yusuf A. Haggag, Kyle B. Matchett, El-Habib Dakir, Paul Buchanan, Mohammed A. Osman, Sanaa A. Elgizawy, Mohamed El-Tanani, Ahmed M. Faheem, Paul A. McCarron (2017) Nanoencapsulation of a novel anti-Ran-GTPase peptide for blockade of regulator of chromosome condensation 1 (RCC1) function in MDA-MB -231 breast cancer cells, *International Journal of Pharmaceutics*, 521 (1-2) . pp. 40-53. ISSN 03785173
- Yuen, Hiu-Fung, Chan, Ka-Kui, Platt-Higgins, Angela, Dakir, EL-Habib, Matchett, Kyle B., Ahmed Haggag, Yusuf, Jithesh, Puthen V., Habib, Tanwir, Faheem, Ahmed, Dean, Fennell A., Morgan, Richard, Rudland, Philip S. and El-Tanani, Mohamed (2016) Ran GTPase promotes cancer progression via Met receptormediated downstream signaling. *Oncotarget*. ISSN 1949-2553
- Abdelkader, D.H., Osman, M.A., El-Gizawy, S.A., Faheem, Ahmed and McCarron, P.A. (2016) Characterisation and in vitro stability of low-dose, lidocaine-loaded poly(vinyl alcohol)-tetrahydroxyborate hydrogels. *International Journal of Pharmaceutics*, 500 (1-2). pp. 326-335. ISSN 03785173
- Haggag, Yusuf, Abdel-Wahab, Yasser, Ojo, Opeolu, Osman, Mohamed, El-Gizawy, Sanaa, El-Tanani, Mohamed, Faheem, Ahmed and McCarron, Paul (2016) Preparation and in vivo evaluation of insulin-loaded biodegradable nanoparticles prepared from diblock copolymers of PLGA and PEG. *International Journal of Pharmaceutics*, 499 (1-2). pp. 236-246. ISSN 0378 5173
- AbdelKader, D H, Osman, M A, Elgizaway, S A, Faheem, Ahmed and McCarron, P A (2016) The Role of Insulin in Wound Healing Process: Mechanism of Action and Pharmaceutical Applications. *Journal of Analytical & Pharmaceutical Research*, 2 (1). ISSN 24730831
- Chan, Ka Kui, Matchett, Kyle B., McEnhill, Paul M., Dakir, El Habib, McMullin, Mary Frances, El-Tanani, Yahia, Patterson, Laurence, Faheem, Ahmed, Rudland, Philip S., McCarron, Paul A. and El-Tanani, Mohamed (2015) Protein deregulation associated with breast cancer metastasis. *Cytokine & Growth Factor Reviews*, 26 (4). pp. 415-423. ISSN 1359 6101
- Haggag, Yusuf A. and Faheem, Ahmed (2015) Evaluation of nano spray drying as a method for drying and formulation of therapeutic peptides and proteins. *Frontiers in Pharmacology*, 6. ISSN 1663-9812
- " Najlah, Mohammad, Parveen, Ishrat, Alhnan, Mohamed Albed, Ahmed, Waqar, Faheem, Ahmed, Phoenix, David A., Taylor, Kevin M.G. and Elhissi, Abdelbary (2014) The effects of suspension particle size on the performance of air-jet, ultrasonic and vibrating-mesh nebulisers. *International Journal of Pharmaceutics*, 461 (1-2). pp. 234-241. ISSN 03785173
- Eng, Matthew, Elkordy, Amal, McCarron, Paul and Faheem, Ahmed (2014) Physical Characterisation as an Insight into a Gene Delivery System Containing Cyclodextrins with Pluronic®-F127 and Folic acid as Non-Viral Vectors. *Journal of Current Pharmaceutical Biotechnology*, 15 (8). pp. 712-726. ISSN 1389-2010
- Matchett, Kyle B., McFarlane, Suzanne, Hamilton, Sophie E., Eltuhamy, Yousef S. A., Davidson, Matthew A., Murray, James T., Faheem, Ahmed and El-Tanani, Mohamed (2014) Ran GTPase in Nuclear Envelope Formation and Cancer Metastasis. *Advances in Experimental Medicine and Biology*, 773. pp. 323-351. ISSN 0065-2598
- Elhissi, A. M. A., Brar, J., Najlah, M, Roberts, S. A., Faheem, Ahmed and Taylor, K. M. G. (2013) An Ethanol-Based Proliposome Technology for Enhanced Delivery and Improved Respirability of Antiasthma Aerosols Generated Using a Micropump Vibrating-Mesh Nebulizer. *Journal of Pharmaceutical Technology, Research and Management*, 1 (2). pp. 171-180. ISSN 2321-2217
- Elhissi, Abdelbary, Hidayat, Kanar, Phoenix, David A., Mwesigwa, Enosh, Crean, StJohn, Ahmed, Waqar, Faheem, Ahmed and Taylor, Kevin M.G. (2013) Air-jet and vibrating-mesh nebulization of niosomes generated using a

particulate-based proniosome technology. *International Journal of Pharmaceutics*, 444 (1-2). pp. 193-199. ISSN 03785173

- McCarron, Paul A and Faheem, Ahmed (2010) Nanomedicine-based cancer targeting: a new weapon in an old war. *Nanomedicine*, 5 (1). pp. 3-5. ISSN 1743-5889
- Elkordy, Amal, Essa, E A and Faheem, Ahmed (2009) Applications of spray drying and spray congealing to improve poorly water soluble drug dissolution. *The American Association of Pharmaceutical Scientists Journal*, 11 (S2). ISSN 1550-7416
- Elkordy, Amal and Faheem, Ahmed (2009) Effect of beta-cyclodextrin on stability of crystallized and lyophilized protein. *The American Association of Pharmaceutical Scientists Journal*, 11 (S2). ISSN 1550-7416
- Faheem, Ahmed, Falconer, R. A., Somavarapu, S. and Alpar, H. O. (2007) The Use of Polycaprolactone (PCL) - Polyethylene glycol (PEG) nanoparticles as targeted vaccine delivery systems. *Journal of Pharmacy and Pharmacology*, 59 (Supp 1). A34-A35. ISSN 2042-7158

Book Chapter:

- Matchett, K. B., McFarlane, S., Hamilton, S. E., Elthuhamy, Y. S. A., Davidson, M. A., Murray, J. T., Faheem, Ahmed and El-Tanani, M. (2014) Ran GTPase in Nuclear Envelope Formation and Cancer Metastasis. In: *Cancer Biology and the Nuclear Envelope: Recent Advances May Elucidate Past Paradoxes*. *Advances in Experimental Medicine and Biology* (773). Springer, New York, pp. 323-351. ISBN 978-1-4899-8032-8

Invited membership to boards/committees:

I was invited to join the Editorial Board of *Journal of Analytical & Pharmaceutical Research* and I have also been invited to review submitted research papers for several international journals including:

- *Journal of Controlled Release*
- *International Journal of Pharmaceutics*
- *Pharmaceutical Research*
- *Journal of Pharmacy and Pharmacology*
- *Micro and Nano Letters*
- *Frontiers in Pharmacology Research*
- *Advances in Nano Research*

External Examiner:

- I was appointed at several occasions as the external examiner for PhD Vivas by different UK Universities including Queens University Belfast, University of Bradford, University of Central Lancashire and University of Strathclyde.

Collaboration with national or international centres of excellence in research:

- Collaboration with key centres of excellence within a consortium for Marie Curie ITN which consists of more than 30 academic and industrial EU partners including key centres of excellence like University of Bradford, Queen's University Belfast, Trinity College Dublin, Ulster University and UCL School of Pharmacy.
- Research collaboration with Prof. Sherif El-Safty, Manager of Research Center for Functional Materials, National Institute for Materials Science (NIMS), Japan.
- Research collaboration with Prof. M. El-Tanani, Deputy Head of Institute of Cancer Therapeutics, University of Bradford, UK.
- Research collaboration with Prof. P. McCarron, Head of School of Pharmacy and Pharmaceutical Sciences, Ulster University, UK.
- Research collaboration with Prof. M. Osman and S. El-Gizawy, Department of Pharmaceutics, Tanta University, Egypt.
- Research collaboration with Prof. M. Elmiligy, Misr University for Science and Technology, Egypt.

Patent Application:

- My collaboration with Bradford Institute of Cancer Therapeutics resulted in a patent in the area of treatment of cancer metastasis launched by Bradford University and includes my contribution in the creation of nanoparticles (Patent Application GB1607593.9).