

Dr. Abeer Syed

Assistant Professor

Personal Data:

Nationality | India
Date of Hire | 2017
Date Rank Obtained | 2017
Department | Biomedical Engineering
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Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Biomedical Engineering	Microfluidics, BioMEMS	University of Glasgow	UK	2013
Masters (M.Sc.)	Drug Discovery and Translational Biology	Drug Discovery	University of Edinburgh	UK	2009
Bachelor (B.Tech)	Biotechnology	Bioengineering	Maharishi Dayanand University	India	2008

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Microsystems for Parasite Enrichment
Master	Structure and function of small molecules of pharmacological interest

Experiences:

Title of Job	Address of Work	Country	Date	
			From	To
Assistant professor	College of Engineering King Faisal University	Kingdom of Saudi Arabia	From	2017
			To	Current
Postdoctoral Fellow	Thayer School of Engineering, Dartmouth College	USA	From	2015
			To	2016
Postdoctoral Fellow	New York University Abu Dhabi	UAE	From	2013
			To	2015
Research Assistant	University of Glasgow	UK	From	2013
			To	2013

Research Interests:

1. Microfluidics, BioMEMS, Lab on a Chip devices
2. Low cost diagnostics, paper based diagnostic devices
3. Infectious diseases, neglected tropical diseases, early cancer detection, public health
4. Bionanotechnology, microfabrication
5. Engineering education

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	A. Syed, E. Da'na, A. Taha.	Preconcentration of charged molecules on paper pads using greenly synthesized smart nano-composite membranes.	Materials Research Express, 2021, 8, 1-9.	https://iopscience.iop.org/article/10.1088/2053-1591/ac1534/meta
2	A. Tadimety,* A. Syed,* Y. Nie, C. R. Long K. Kready and J. Zhang.	Liquid Biopsy on Chip – A Paradigm Shift towards the Understanding of Cancer Metastasis.	Integrative Biology, 2017, 9, 22-49. * the authors contributed equally	https://pubs.rsc.org/en/content/articlepdf/2017/ib/c6ib00202a
3	H. K. Hall, A. Syed, and J. Zhang.	Two-dimensional, Error-corrected Barcode Readout for Point-of-Care Colorimetric Assays.	IEEE Healthcare Innovation Point-Of-Care Technologies Conference (HI-POCT), 2016, 81-84.	https://ieeexplore.ieee.org/document/7797702
4	E. Ng, K. Chen, A. Hang, A. Syed and J. Zhang	Multi-dimensional Nanostructures for Microfluidic Screening of Biomarkers: From Molecular Separation to Cancer Cell Detection.	Annals of Biomedical Engineering, 2016, 44(4), 847-862.	https://link.springer.com/content/pdf/10.1007/s10439-015-1521-2.pdf
5	X. Wei, A. Syed, P. Mao, J. Han and Y-A, Song.	Creating Sub-50 Nm Nanofluidic Junctions in PDMS Microfluidic Chip via Self-Assembly Process of Colloidal Particles.	J. Vis. Exp. 2016, (109), e54145	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4828979/
6	A. Syed, L. Mangano, P. Mao, J. Y. Han and Y-A, Song	Creating Sub-50 nm Nanofluidic Junctions in PDMS Microchip via Self-Assembly Process of Colloidal Silica Beads for Electrokinetic Concentration of Biomolecules.	Lab Chip, 2014, 14, 4455-4460.	https://pubs.rsc.org/en/content/articlehtml/2014/lc/c4lc00895b
7	Y. Bourquin, A. Syed, J. Reboud, L. C. Ranford-Cartwright, M. P. Barrett and J. M. Cooper	Rare-cell Enrichment by a Rapid, Label-free, Ultrasonic Isopycnic Technique for Medical Diagnostics.	Angew Chem. 2014, 53(22), 5587-90.	https://onlinelibrary.wiley.com/doi/pdf/10.1002/anie.201310401
8	A. A. Kumar, C. Lim, Y. Moreno, C. R. Mace, A. Syed, D. V. Tyne, D. F. Wirth, M. T. Duraisingh, and G. M. Whitesides	Enrichment of Reticulocytes from Whole Blood using Aqueous Multiphase Systems of Polymers.	American Journal of Hematology, 2014, 90(1), 31-36.	https://onlinelibrary.wiley.com/doi/pdfdirect/10.1002/ajh.23860



Language Proficiency:

1. English-Fluent
2. Kashmiri-Native
3. Hindi-Fluent
4. Urdu-Fluent