

## Abdul Rauf SIDDIQI PhD, MBA

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 Date of Birth: August 19, 1975



### Profile Summary

Worked extensively in higher education, health and biotech sector in France and Pakistan. Have been working as a researcher and developer to solve various problems related to data sciences, health and pharmaceutical food industry. Have extensive experience in data analytics, project design, management and administration. Ample experience in the sectors of higher education and reserach.

### Education

<b>Lahore University of Management Sciences (LUMS)</b> MBA 2014/2015	Jul 13 – Jun 15
<b>INSERM, Paris, France, (French National Institute of Health and Medical Research)</b> Post Doctorate, Bioinformatics (Computational Biology)	Oct 11 – Mar 12
<b>Faculty of Medicine, University of Paris Descartes, France</b> PhD Bioinformatics (Computational Biology)	Oct 07 – Sep 11
<b>Faculty of Health Sciences, University of Paris Denis Diderot, France</b> MS Bioinformatics (Computational Biology)	Jun 06 - Sep 07
<b>University of Arid Agriculture Rawalpindi, Pakistan</b> B.Sc. (Hons.) in Plant Protection	Sep 95 – Aug 99

### Certifications/Trainings

- Certificate: Enterprise Operations and Administration, University of Paris Descartes, France. Jan 11
- Certificate: From Gene to Structure, Studies of Protein Structure and Function, Trieste, Italy Apr 12

### Experience

#### Work Experience

<b>COMSATS Institute of Information Technology, Islamabad, Pakistan</b> Faculty Member /Project Incharge/Researcher <ul style="list-style-type: none"> <li>• Planning, administering and executing research and development projects.</li> <li>• Leading the COMSATS's partnership agenda with industries such as ICI Pakistan (Life Sciences), Scotmann® and Werrick® pharmaceutical companies.</li> <li>• Lateral marketing of DNA extraction kits, immunohistochemistry and enzyme products in B2B market.</li> <li>• Liaising with international funding agencies and writing grant proposals to agencies like UN WHO, FAO, Asian Development Bank (ADB) and Higher Education Commission of Pakistan,.</li> <li>• Meeting international delegations and research communities, managing international conferences and seminars.</li> <li>• Training directing and supervising MS and PhD students in the fields of Bioinformatics and allied sciences.</li> </ul>	May 12 to-date
<b>INSERM, Paris, France, (French National Institute of Health and Medical Research)</b> <b>Scientist (Postdoctoral Fellow/ Research Associate)</b> <ul style="list-style-type: none"> <li>• Have been working on projects jointly funded by French National Research Agency, ANR (L'Agence Nationale De la Recherche ) and University of Paris Descartes.</li> <li>• Have been working on projects jointly funded by French institution INSERM and HEC Pakistan.</li> <li>• Periodic meeting with project stakeholders, steering the project outlay and accomplishment.</li> <li>• Developed models for R&amp;D projects at lab integrating various resources.</li> </ul>	Jan 07 – Mar 12
<b>Pakistan Navy (Base Medical Center)/PARC</b> <b>Scientific Officer</b> <ul style="list-style-type: none"> <li>• Designing budgets and maintaining records, working as deputy officer in-charge, 25 people had been working under my charge which included a small secretariat.</li> <li>• Working as deputy manager of an extension and outreach project funded by United Nations aimed at developing environment friendly pest control solutions to control vector borne diseases malaria, cholera, myiasis and other infectious diseases in rural communities. .</li> </ul>	Feb 01- Apr 06

### Projects

<b>1. A Computational Approach for Discovering Cure of Cardiovascular Disorders (2.37 Million), NRPU HEC.</b>	On Going
<b>2. Candidate genes hunting for certain autosomal recessive non-syndromic hearing loss (ARNSHL) disorders using biological databases and bioinformatics tool, HEC.</b>	On Going
<b>3. Battle Against Cancer: In Silico Discovery of Potential Tyrosine Kinase Inhibitors (2.8 Million), NRPU, HEC</b>	On Going
<b>4. Identifying New Drug Targets for Cardiovascular Disorders at INERM, Paris, France</b>	Sep 07 - Mar 12

### Skills

- Excellent communication & presentation skills in English. Can also speak French, Urdu, Punjabi, and Saraiki.
- Strong operational understanding, excellent communication & presentation skills, marketing aptitude.
- Strong Command over MS Office, PowerPoint, Excel.
- Various pharma and biotech lab assay skills

### Affiliations

- Member French Association of Bioinformatics

### Honors and Awards

- Winner of Postdoctoral Grant, ANR, France ("L'Agence Nationale De la Recherche"). 2011- 2012
- Winner of Scholarship for accomplishing MS and PhD at France, HEC, Pakistan 2007- 2011
- Editor English Section of University Magazine 1998 -1999
- HEC's National Allama Iqbal Shield Declamation Competition at University Level.

## Publications

- 1 Jessica Huyet, Mohammad Ozeir, Marie-Claude Burgevin, Benoît Pinson, **Abdul Rauf Siddiqi**, Roland Lupoli, Gregory Pinon (2018) Structural insights into the forward and reverse enzymatic reactions in human adenine phosphoribosyltransferase. Accepted in Cell Chemical Biology.
- 2 Irfan Sadiq, Mahnoor Zulfiqar, Arooma Maryam, Khoula Rehman, Salma Noreen, Muhammad Mursalin, Shehreen Amjad, Sadaf Abdul Rauf, Rana Rehan Khalid, **Abdul Rauf Siddiqi**. *In-Silico* Studies Of Cbl-Cipk Signaling In Rice: Response Against Hypoxia Is Triggered By Interaction Of Cbl10 With Cipk15. Accepted in Pakistan Journal of Botany
- 3 Hira Saleem , Arooma Maryam<sup>1</sup>, Saleem Ahmed Bokhari, Ayesha Ashiq, Rana Rehan Khalid, Fahim Ashraf Qureshi, **Abdul Rauf Siddiqi**. Design, synthesis, characterization, antimicrobial and computational docking studies of novel sulfonamide derivatives. Accepted in Excli Journal.
- 4 Arooma Maryam, Muhammad Tahir ul Qamar, Iqra Muneer, Barira Zahir, Feng Xing, Farooq Anwar, Faheem Ahmed Khan, Rana Rehan Khalid, Sadaf Abdul Rau<sup>7</sup>, Mohammed H. Geesi, Usman Ali Ashfaq, Abdul Rauf Siddiqi. Computational screening for pan-serotype inhibitor from medicinal plants to hinder dengue virus infection: One drug against multiple proteins and serotypes. Accepted in Oncotarget.
- 5 Riaz MR, **Siddiqi AR**, Bokhari H: Structural and functional studies of BapC protein of Bordetella pertussis. Microbio I Res 2015, 174(0):56-61. Equal Contributions, Co-First Author
- 6 Murtaza G, Sajjad A, Mehmood Z, Shah SH, **Siddiqi AR**: Possible molecular targets for therapeutic applications of caffeic acid phenethyl ester in inflammation and cancer. Journal of Food and Drug Analysis 2015, 23(1):11-18.
- 7 Mustafa I, Ahmed H, Lodhi MA, **Siddiqi AR**, Haider W, Bostan N, Asif S, Khan MR, Qayyum M, Ali S, Ali MI, Afzal MS (2015) Newcastle disease as an emerging disease in peacocks of Tharparker, Pakistan. Journal of infection in developing countries 9 (8):914-916. doi:10.3855/jidc.5258
- 8 **Siddiqi AR**, Nioche P, Waseem A, Villoutreix BO: Efficiency of a Hierarchical Docking Protocol for Computational Ligand Screening against Homology Models. Biomedical Engineering: Applications, Basis and Communications 2014, 26(02).
- 9 Jadoon S, Karim S, Akram MR, Khan AK, Zia MA, **Siddiqi AR**, Murtaza G: Recent Developments in Sweat Analysis and Its Applications. International Journal of Analytical Chemistry 2015.
- 10 Waseem A, Shah SA, Sajjad A, **Siddiqi AR**, Nafees M: Human Exposure to Mycotoxins: A Retrospective Review of Leading Toxins and Metabolites in Human Biological Matrices. J Chem Soc Pakistan 2014, 36(6):1196-1214.
- 11 Waseem A, Nafees M, Murtaza G, Sajjad A, Mehmood Z, **Siddiqi AR**: Salt Toxicity (Sodium Intake): A Serious Threat to Infants and Children of Pakistan. Iranian Journal of Public Health 2014, 43(9):1204-1211.
- 12 Asgher M, Yaqoob M, Nabi A, Murtaza G, **Siddiqi AR**, Waseem A: Flow Injection Photosensitized Chemiluminescence of Luminol with Cu(II)-Rose Bengal: Mechanistic Approach and Vitamin A and C Determination. International Journal of Analytical Chemistry 2014.
- 13 **Siddiqi AR**, Rafi A, Naz F, Masih R, Ahmad I, Jilani G: Effects of Curcuma Longa Extracts On Mortality And Fecundity of Bactrocera Zonata (Diptera: Tephritidae). Ciência e Agrotecnologia 2011, 35(6):1110-1114.
- 14 **Siddiqi AR**, Jilani G, Rehman J, Kanvil S, Pakistan J: Effect of turmeric extracts on settling response and fecundity of peach fruit fly (Diptera: Tephritidae). Pakistan Journal of Zoology 2006, 38(2):131-135.
- 15 Riaz, M. R., Rauf, S. A., Lupoli, R., Rafi, M. A., Jilani, G., & **Siddiqi**, A. R. (2015). Potential Of Turmeric Extract And Its Fractions To Control Peach Fruit Fly (Diptera: Tephritidae). Ciência e Agrotecnologia, 39, 545-552.
- 16 Irum Arif , Abdul Rauf Siddiqi, Haroon Ahmed , Inam Afzal , Muhammad Umer , Arooma Maryam , Rehan Khalid , Saira Asif , Sohail Afzal , Ozge Ozyalin and Sami Simsek. A computational structural analysis of functional attributes of Hypodermin A and B proteins: A way forward for vaccine development Accepted. Pak J Pharm Sci . In Press.
- 17 Bokhari H, **Siddiqi AR**,: Decreased Serum PON1 Arylesterase Activity in Familial Hypercholesterolemia Patients with Mutated LDLR Gene Genet. Mol. Biol. Equal Contributions. In Press.
- 18 Bokhari H, **Siddiqi AR**,: Oligosaccharyltransferase PglB of Campylobacter jejuni is a Glycoprotein. 3Biotech. In Press
- 19 Irfan S, Siddiqi AR: In-Silico Studies Of Rice Cbl-Cipk Signalling Pathway: Response Against Hypoxia Is Triggered By Cbl6 Binding With Cipk10. Pak J Bot. In Press
- 20 Hira Saleem. Siddiqi AR: Design, Synthesis, Characterization, Antimicrobial And Computational Docking Studies Of Novel Sulfonamide Derivatives. EXCLI Journal. In Press
- 21 Rida Khursheed Malik , Pir Muhammad Siddique, Arsalan Anwar Chohan, Maleeha Maria, Eyza Koreshe, Abdul Rauf Siddiqi, Wajid Ali Khan, Sorath Siddiqui, Abdul Mannan Khan Minhas, Nadia Khalida Waheed, Maleeha Azam, Raheel Qamar, Role of rare variants in keratoconus development and identification of novel cis-acting element in VSX1. Genes and Genomics. submitted

## INTERNATIONAL CONFERENCES

- 22 **Siddiqi AR**, Lupoli R, Freier C, Dimarogona M, Omrane M, Teillet F, Nioche P, Structural Studies of Proteins involved in NO Signaling Pathways. Proceedings of 2ème Journée Scientifique de L' IMTCE Institut Médicament Toxicologie Chimie Environnement, Paris, France. 27 May 2011
- 23 Teillet F, **Siddiqi AR**, Lupoli R, Nioche P, Études structurales de la Guanylate Cyclase soluble, Une enzyme clé du système cardio-vasculaire. Proceedings of Journée ABG-INSERM, Paris, France. 11 Dec. 2009
- 24 Karima T, **Siddiqi AR**, Lupoli R, Jessica H, Nioche P. How a ligand bound molecule of Sensor of Nitric Oxide (SONO) domain activates its corresponding catalytic domain/protein. GTBio Proceedings, Montpellier, France 3-6 April 2012
- 25 **Siddiqi AR**. Structural studies of proteins involved in Nitric Oxide Signaling pathways. IYCR South Asia Summit Meeting On Vistas In Structural Chemistry. April 28-30, 2014, Karachi, Pakistan