

Qamar Bashir

Assistant Professor

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Superintendent

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Education

2010	PhD	Leiden University, The Netherlands
2002	MSc	University of the Punjab, Lahore, Pakistan
2000	BSc	University of the Punjab, Lahore, Pakistan

Research Experience

Present position	Assistant Professor (Since 01-11-2011) School of Biological Sciences, University of the Punjab, Lahore, Pakistan
2010 - 2011	Postdoctoral Fellow Leiden University, The Netherlands Project: Studies on influenza hemagglutinin and its broadly neutralizing antibodies
2006 - 2010	PhD Researcher Leiden University, The Netherlands Project: Dynamics in electron transfer protein complexes

Honours and Awards

- Postdoctoral Fellowship by Leiden University, The Netherlands (2010-2011)
- Travel Award by Netherlands Society for Biochemistry and Molecular Biology (2010)
- Overseas PhD Scholarship by Higher Education Commission of Pakistan (2006-2010)
- Divisional Scholarship for MSc (2000)

Publications

1. Bashir Q, Meulenbroek EM, Pannu NS, Ubbink M. (2014). Engineering specificity in a dynamic protein complex with a single conserved mutation. *FEBS J* 281:48922-905.
2. Rasool N, Rashid N, Bashir Q, Siddiqui MA. (2013) Proteolytic inventory of *Thermococcus kodakaraensis*. *Afr. J. Microbiol. Res.* 7:3139–3150.
3. Hervás Moron M, Bashir Q, Leferink NG, Ferreira P, Moreno-Beltrán B, Westphal AH, Díaz Moreno I, Medina M, de la Rosa MA, Ubbink M, Navarro JA, van Berkel WJ. (2013) Communication between L galactono 1,4 lactone dehydrogenase and cytochrome c. *FEBS J* 280:1830-40.
4. Nisar MA, Rashid N, Bashir Q, Afza Gardner QT, Shafiq MH, Akhtar M. (2013) TK1299, a highly thermostable NAD(P)H oxidase from *Thermococcus kodakaraensis* exhibiting higher enzymatic activity with NADPH. *J Biosci Bioeng* 116:39-44.
5. De Wael K, Bashir Q, Van Vlierberghe S, Dubruel P, Heering HA, Adriaens A. (2012) Electrochemical determination of hydrogen peroxide with cytochrome c peroxidase and horse heart cytochrome c entrapped in a gelatin hydrogel. *Bioelectrochemistry* 83:15-8.
6. Bashir Q, Scanu S, Ubbink M. (2011) Dynamics in electron transfer protein complexes. *FEBS J.* 278:1391-400.
7. Volkov AN, Bashir Q, Worrall, JAR, Ullmann GM, Ubbink M. (2010). Shifting the equilibrium between the encounter state and the specific form of a protein complex by interfacial point mutations. *J. Am. Chem. Soc.* 132:11487-95.
8. Bashir Q, Volkov AN, Ullmann GM, Ubbink M. (2010). Visualization of the encounter ensemble of the transient electron transfer complex of cytochrome c and cytochrome c peroxidase. *J. Am. Chem. Soc.* 132:241-7.
9. Jamil F, Afza Gardner QT, Bashir Q, Rashid N, Akhtar M. (2010) Mechanistic and stereochemical studies of glycine oxidase from *Bacillus subtilis* strain R5. *Biochemistry* 49:7377-83.
10. Bashir Q, Rashid N, Jamil F, Imanaka T, Akhtar M. (2009). Highly thermostable L-threonine dehydrogenase from the hyperthermophilic archaeon *Thermococcus kodakaraensis*. *J. Biochem.* 146:95-102.
11. Volkov AN, Bashir Q, Worrall JA, Ubbink M. (2009). Binding hot spot in the weak protein complex of physiological redox partners yeast cytochrome c and cytochrome c peroxidase. *J. Mol. Biol.* 385:1003-13.
12. Bowyer A, Mikolajek H, Wright JN, Coker A, Erskine PT, Cooper JB, Bashir Q, Rashid N, Jamil F, Akhtar M. (2008) Crystallization and preliminary X-ray diffraction analysis of L-threonine dehydrogenase from the hyperthermophilic archaeon *Thermococcus kodakaraensis*. *Acta Crystallographica Section F* 64: 828-30.
13. Bashir Q, Rashid N, Akhtar M. (2006). Mechanism and substrate stereochemistry of 2-amino-3-oxobutyrate CoA ligase: implications for 5-aminolevulinate synthase and related enzymes. *Chem. Commun(camb)*. 48:5065-7.

Cumulative impact factor: 57.78

Cumulative citations: 201

X-ray structure deposited in PDB

- Meulenbroek EM, Bashir Q, Ubbink M, Pannu NS. K13R mutant of horse cytochrome c and yeast cytochrome c peroxidase complex. PDB ID: 4NFG.

Research Interests

- Protein chemistry, Enzymology, Molecular biology, Structural biology

Scientific Presentations

- Nov 2013: PSBMB 11th Biennial Conference "Molecular Biosciences – Challenges and Opportunities" Lahore, Pakistan
- Dec 2010: NWO scientific meeting "Protein chemistry, nucleic acids, lipids and biomembranes" Velhoven, The Netherlands
- Jan 2010: Gordon Research Conference "Biomolecular Interactions & Methods" Galveston, USA
- Oct 2009: "NMR Discussion Group" Leiden, The Netherlands
- Dec 2008: NWO scientific meeting "Protein chemistry, nucleic acids, lipids and biomembranes" Velhoven, The Netherlands
- July 2008: EMBO Practical Course "Biomolecular Simulations" Paris, France
- Nov 2007: "NWO Protein Chemistry Meeting" Lunteren, The Netherlands
- May 2007: "Trends in Transient Interactions between Biological Macromolecules" Sevilla, Spain
- Nov 2005: "18th Symposium of the FAOBMB" Lahore, Pakistan

Language Proficiency

- English (IELTS band score 7)
- Dutch (level 1 and 2)
- Urdu
- Punjabi