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Education and experience

- Postdoctoral Fellow at The Institute of Cancer Research, London, UK: Worked on signaling networks involved in Cell migration and Cell replication.
- Application Scientist at the Chemistry And Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru: Worked on charge density analysis of medicinally important compounds.
- Ph.D in Molecular Biophysics from Indian Institute of Science, Bangalore: Studied lectin-carbohydrate interaction and delineated the role of glycosylation in legume lectin oligomerisation.
- M.Sc. in Solid State Physics from Department of Physics, Karnatak University Dharwad.
- B.Sc. in Electronics from P.C. Jabin Science College, Hubli.

Achievements

Research subjects:

Research Areas

Recent publications

- Life Sciences
- Interdisciplinary research in Biology
- Structural biology of cellular signaling networks
- Structural Biology methods development
- Drug Discovery
- Zhang Z, Chang L, Yang J, Cronin N, **Kulkarni K*** and Barford D* (2012) The four TPR subunits of human APC/C form related homo-dimeric structures and stack in parallel to form a TPR superhelix. **J. Mol. Biol.** (In press) (* *Corresponding authors*)
- William C.H. Chao*, **Kiran Kulkarni***, Ziguo Zhang, Eric H. Kong and David Barford (2012) Structure of the mitotic checkpoint complex **Nature** 484:208-13 (* *Equal first author*)
- Jun He*, **Kiran Kulkarni***, Paula C.A. da Fonseca, Dasha Krutauz, Michael H. Glickman, David Barford and Edward P. Morris (2012) The structure of the 26S proteasome subunit Rpn2 reveals its PC repeat domain as closed toroid of two concentric α -helical rings. **Structure** 20:513-21 (* *Equal first author*)
- Jing Yang, **Kiran Kulkarni**, Ioannis Manolaridis, Ziguo Zhang, Roger B. Dodd, Corine Mas-Droux and David Barford (2011) Crystal structure of ICMT reveals the mechanism of CAAX motif postprenyl modification by an integral membrane carboxyl methyltransferase. **Mol.Cell.** 44:997-1004
- **Kulkarni K**, Yang J, Zhang Z, Barford D. (2011) Multiple factors confer specific Cdc42 and Rac protein activation by dedicator of cytokinesis (DOCK) nucleotide exchange factors. **J Biol Chem.** 286:25341-51.