

SAJID RASHID



Assistant Professor
National Center for Bioinformatics
Quaid-e-Azam University
Islamabad, Pakistan
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Academics

Dec. 2002 to Jan. 2006

Ph.D. in Functional Genomics (Bioinformatics)
Institute of Human Genetik
Goerge-August University, Goettingen, Germany.

2000-2002

M.phil in Biochemistry/Molecular Biology
Department of Biological Sciences
Quaid-i-Azam University, Islamabad, Pakistan.

1998-2000

M.Sc in Biochemistry/Molecular Biology
Department of Biological Sciences
Quaid-i-Azam University, Islamabad, Pakistan.

1996-97

B.Sc
Botany, Zoology, Chemistry.
Punjab University, Lahore, Pakistan.

Post PhD Research Training

Nov, 2006 - Sep, 2009: Postdoctoral fellow in the Partner Group of the Max Planck's Institute of Molecular Cell Biology and Genetics in Dresden (the MPI-CBG/IIMCB Partner Group), Germany and IIMCB (International Institute of Molecular and Cellular Biology), Warsaw, Poland.

Professional interest: Molecular Biology/Bioinformatics

Employment History

August 2009 to date: Assistant professor in the National Center for Bioinformatics, QAU, Islamabad.

Feb, 2006 - August, 2009: Assistant professor in the department of Biosciences, COMSATS University, Islamabad. Involved in teaching Bioinformatics courses (Bioinformatics-II and Bioinformatics-III) to BS Bioinformatics students and conducting labs for tools development in Bioperl and C++ programming languages.

Bioinformatics/Molecular Biology Projects

- Mutational analysis of human oligoasthenozoospermia patients by heteroduplex/homoduplex comparison.
- Protein annotation studies.
- Protein-protein interaction studies by docking and modeling techniques followed by experimental validation.
- Gene targeting constructs designing in model system (mice) and experimental validation of two constructs in creation of homozygous mice.
- Designing of the genotyping strategy by real time PCR.
- Proteomics analysis of endosomal proteins in relation to nuclear mechanisms (Postdoc).
- Generation and characterization of Knockout mice model for the *Dnali1* gene.
- Generation and characterization of Knockout mice model for the *Tcte3* gene.
- Gene localization in the Pakistani families containing hereditary genetic disorders.

Expertise in Bioinformatics

Molecular Modeling, Docking and Simulation

Protein-Protein Interaction, Signaling Pathways/network analysis

Algorithm and Software development (Visual C, Visual Basic, Java)

Transgenic/Knockout mice model

Additional computer skills

Operating Systems (MS-DOS, UNIX and Windows)

Word-Processors

Spread Sheets (Lotus, Excel)

Data Bases (Fox Pro, Dbase, Visual Basic)

Graphics (Adobe, Corel, Print Shop, Office, Front Page)

System Analysis and Design

Data Structure (Flow-sheets and Algorithms)

Languages (Basic, Visual C, C ++, COBOL, Foxpro, Bioperl)

Accounting

LAN, WAN

Main Courses (Hardware)

Hardware/Network implementation

Computer assembly/Servicing

Operating Systems (Disk management system)

Troubleshooting/Repairing

Meetings/Conferences attended

- I-Sweep (International Sustainable World), Houston Texas, USA, May 1-5, 2008.
- Cell biology of intracellular transport processes. The trilateral workshop for young scientists from Germany, Czech Republic and Poland, 15-18th Nov, 2006.
- International Thematic Workshop “Use of Bioinformatics in Genomic Research” organized by the OIC Ministerial Standing Committee on Scientific and Technological Cooperation (COMSTECH) and the Higher Education Commission (HEC) held at COMSTECH Secretariat, Islamabad, Pakistan, 19th Aug to 2nd Sep, 2006.
- German Human Genetics conference, 9th-15th march, 2005, Haale, Germany.

- European Human genetics conference, 2004 in Munich, Germany, presented poster “Molecular Analysis of murine p28 gene”.
 - Drug Demand reduction training workshop, 1995, Rawalpindi, Pakistan.
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Invited presentations

- Impact of endosomal adaptor proteins APPL1 and APPL2 on Wnt signalling. **25-27th June, 2009, Endotrack meeting, Ghent, Belgium.**
- Oligoasthenoteratozoospermia in dynein light chain Tcte3-3 deficient mice. **8-10th Apr, 2008.** 19 Jaherestagung der Deutschen Gesellschaft fuer Humangenetik, Hannover, **Germany.**
- The murine Dnali1 gene encodes an axonemal dynein that is essential for embryonic development. **7-10th Mar, 2007,** Rashid S.(1), Neesen J.(2). 18 Jaherestagung der Deutschen Gesellschaft fuer Humangenetik, Bonn, **Germany.**
- Role of Dynein light chains. **9-10th Feb, 2006,** University Hospital Malmo, **Sweden.**
- Characterization of murine p28 gene. **9-15th Mar, 2005,** Human genetics conference, Haale, **Germany.**
- Murine Tcte3 gene is important for fertility. **10-11th Apr, 2004,** Univ. of Frankfurt, **Germany.**
- Molecular Analysis of murine p28 gene. **22-25th Feb, 2004,** Munich, **Germany.**

Abstracts

Rashid S, Neesen J. Oligoasthenoteratozoospermia in dynein light chain Tcte3-3 deficient mice. German Human Genetics Conference, 8th – 10th April, 2008, Hannover, Germany.

Rashid S, Neesen J. The murine *Dnali1* gene encodes an axonemal dynein that is essential for embryonic development. German Human Genetics Conference, 7th – 10th march, 2007, Bonn, Germany.

S. Rashid and J. Neesen. Characterization of the murine *p28* gene. German Human Genetics Conference, 9th-15th march, 2005, Haale, Germany.

S. Rashid, M. Hupe and J. Neesen. Molecular analysis of *p28* dynein light chain. ESHG (12) S1-June, 2004.

Publications

1. Nawaz S, Ain Q, Seemab U, Rashid S: **MotViz: A tool for sequence motif prediction in parallel to structural visualization and analyses.** *Genomics, Proteomics & Bioinformatics* 2011 (Epub ahead of print).
2. Ain Q, Seemab U, Nawaz S, Rashid S: **Integrative analyses of conserved WNT clusters and their co-operative behaviour in human breast cancer.** *Bioinformatics* 2011 **7**(7): 339-346.
3. Saqib MA, Awan BM, Sarfraz M, Khan MN, **Rashid S**, Ansar M: **Genetic analysis of four Pakistani families with achromatopsia and a novel S4 motif mutation of CNGA3.** *Jpn J Ophthalmol* 2011, **55**(6):676-680.
4. **Rashid S**, Grzmil P, Drenckhahn JD, Meinhardt A, Adham I, Engel W, Neesen J: **Disruption of the murine dynein light chain gene *Tcte3-3* results in asthenozoospermia.** *Reproduction* 2010, **139**(1):99-111.
5. **Rashid S**, Pilecka I, Torun A, Olchowik M, Bielinska B, Miaczynska M: **Endosomal adaptor proteins APPL1 and APPL2 are novel activators of beta-catenin/TCF-mediated transcription.** *J Biol Chem* 2009, **284**(27):18115-18128.
6. **Rashid S**, Breckle R, Hupe M, Geisler S, Doerwald N, Neesen J: **The murine *Dnali1* gene encodes a flagellar protein that interacts with the cytoplasmic dynein heavy chain 1.** *Mol Reprod Dev* 2006, **73**(6):784-794.
7. **Rashid S. Bioinformatics Resource Development in Pakistan: A Review Proc. Pakistan Acad. Sci.** 2006, **43**(4): 295-307.

References

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