

PERSONAL INFORMATION

Name : Gouse Mohiddin Shaik
Gender : Male
Date of Birth : 18-05-1976
Marital status : Married
Nationality : Indian

ACADEMIC QUALIFICATIONS

- **PhD in Immunology** from Charles University, Prague. (November 2002 to till date)
Project : Deciphering the complex signal transduction pathways in Bone Marrow Derived Mast Cells (BMMC) and Rat Basophilic Leukemia Cells (RBL-2H3) under the supervision of Dr. Petr Draber at IMG AVCR v.v.i.
- **M.Sc. in Biotechnology** from Nagarjuna University, India. Passed in First class. (August 1997 to July 1999)
Project : “Isolation and characterization of plasmids from Yeast genomic expression library conferring increased stress tolerance during fermentation” under the guidance of Dr. K. Ganesan at Institute of Microbial Technology (IMTECH), Chandigarh, India.
- **B.Sc.** from Nagarjuna University, India. Passed in First class with distinction. Subjects – **Microbiology, Biochemistry, and Applied Nutrition** (August 1993 to June 1996)

WORK EXPERIENCE

November 2002 to till date

Working as PhD student at Department of Signal Transduction, Institute of Molecular Genetics, Academy of Sciences of Czech Republic, Prague. (www.img.cas.cz)

December 1999 to October 2002

Worked as Research Associate at Department of Biotechnology, Wockhardt R&D (India's Pharma major) Aurangabad, India. (<http://www.wockhardt.com/mainpage.php>). Actively involved in process development of Hepatitis B Sub-unit vaccine and recombinant Human Insulin. Partially contributed in process optimization of recombinant Erythropoietin.

September 1999 to November 1999

Worked as Lecturer in Molecular Biology at GVR&S post-graduate college for women, Guntur, India (<http://gvrseduinst.com/Home.html>). Conducted practical demonstrations, tutorials and lectures for M.Sc. Microbiology and M.Sc. Biochemistry students.

RELEVANT TRAINING PROGRAMMES

- Successfully completed a course “An introduction to Design - Scale-up - Validation of Down Stream Processing in Biotechnology Applications” at MILLIPORE (INDIA) PVT. LTD. Bangalore; India. Certificate awarded on 31st August 2001.
- Undergone a training program from 1st May 1999 to 14th June 1999 at Institute of Microbial Technology (IMTECH) Chandigarh; India, for partial fulfillment of M.Sc. studies. (<http://www.imtech.res.in>). Took part in project “Isolation and characterization of plasmids from yeast genomic expression library conferring increased stress tolerance during fermentation”
- Underwent a practical training at the Pasteur Institute of India, Coonoor from 25th November 1998 to 7th December 1998. Learned production and quality control of Rabies and DPT group of vaccines. (<http://www.pasteurinstituteindia.com/home.htm>)
- Developed IT skills by successfully finishing Advanced Certificate in PC applications (APA) course at National Institute of Information Technology (NIIT) Tenali; India, from October 1997 to March 1998

MAJOR TECHNICAL SKILLS

- **Immunology** : Hands-on experience in Immunoblotting, Immunoprecipitation, FACS, ELISA, Immunofluorescence microscopy, confocal microscopy, measurement of calcium flux, production of hybridomas and preparation of stable knockout/knockdown cell lines by vector based RNAi.
- **Molecular Biology** : Ample experience in primer designing, PCR, qRT-PCR, isolation of DNA/RNA, production of GST or His tag proteins by molecular cloning, GST-pull down assay, transformation of bacteria, yeast and mammalian cell lines and other standard recombinant DNA technology methods.
- **Biochemistry** : Very well acquainted with spectrophotometry, standard electrophoresis techniques like SDS-PAGE, agarose gels, and able to perform downstream processing at analytical and preparative level by chromatography - ion exchange, size exclusion, ultra centrifugation, ultra filtration and tangential flow filtration.
- **Computer skills** : Familiar with various bioinformatics packages and have command over MS office.
- **Industrial** : Experience in various functional areas (upstream and downstream) of recombinant biopharmaceutics manufacturing (microbial and mammalian platform), quality control of inprocess and final samples, knowledge of process development, Maintenance and storage of microbial and mammalian cell banks, active involvement in quality assurance – process and equipment validation, documentation of process, writing SOPs, maintenance of batch records, knowledge of cGMP and GLP.

PUBLICATIONS & POSTER PRESENTATIONS

- Gouse M Shaik, Machova K, Draberova L and Petr Draber. Comparison of different reaction conditions on performance of multiple dyes (manuscript under preparation to submit in **Nucleic Acids Research**)
- Gouse M. Shaik, Lubica Dráberová, and Petr Dráber. Inhibition of exocytosis by small chemical vacuolin-1 is dependent on origin of the target cells. (manuscript under preparation to submit in **EMBO reports**)
- Gouse M. Shaik, Lubica Dráberová, Peter Dráber, Michael Boubelík and Petr Dráber*. Tetraalkylammonium derivatives as real-time PCR enhancers and stabilizers of the qPCR mixtures containing SYBR Green I. **Nucleic Acids Res.** 2008 1-10 DOI – 10.1093/nar/gkn421.
- Dráberová, L., Shaik, G. M., Volná, P., Heneberg, P., Tůmová, M., Lebduska, P., Korb, J. and Dráber, P. Regulation of Ca²⁺ signaling in mast cells by tyrosine-phosphorylated and unphosphorylated non-T cell activation linker. **J. Immunol.**, 179, 5169-5180, 2007
- Jirkovská, M., Majer, F., Smídová, J., Støiteský, J., Shaik, G. M., Dráber, P. , Vitek, L., Mareček, Z. and Čmíd, F. Changes in GM1 ganglioside content and localization in cholestatic rat liver. **Glycoconj.J.**, 24, 231-241, 2007
- Gouse M Shaik, L Draberova and Petr Draber. Inhibition of exocytosis by vacuolin-1 is dependent on origin of target cells. 12th ADNAT convention Symposium on Biology of Embryonic and Adult Stem Cells.,48, CCMB; Hyderabad; India. 23-24 February 2008.

ADDRESS FOR COMMUNICATION

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REFERENCES

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2. Dr. Luba Draberova, Scientist, Dept. of Signal Transduction, Institute of Molecular Genetics, Academy of Sciences of Czech Republic v.v.i., Videnska 1083, Krc, Prague – 4, Czech Republic.
Phone – 00 420 241 062 268
Email – draberlu@img.cas.cz
3. Dr. K. Sambasiva Rao, Head of the Department, Department of Biotechnology, Nagarjuna University, Nagarjuna Nagar, 522510, Guntur, India.
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