Prashant Shanakar Giri

Nationality: Indian

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Date of birth: 05/02/1994

Gender: Male

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Address: Room No. 1260, Jamnanagar, Khergam Road, Gundlav, Valsad 396035 (India)

WORK EXPERIENCE

Research Assistant

C. G. Bhakta Institute of Biotechnology [19/06/2018 – Current]

City: Surat **Country:** India

- Establishment of Mammalian cell culture lab.
- Mammalian cell culture experiments: Treg cells isolation, Culture, *in vitro* functional assays, Flow cytometry
- Molecular Biology experiments: PCR, qPCR, ELISA and gel electrophoresis, molecular docking, meta-analysis
- Project guidance for postgraduates, on various field of research especially in field of Biotechnology, Molecular cell biology, Animal cell culture and Microbiology, Hands on training and Laboratory facilities assistance for postgraduates' students.
- Workshop Organizer

Executive

Biological E Ltd. [27/06/2016 – 01/06/2018]

City: Hyderabad **Country:** India

- Mammalian cell culture experiments: MRC5 cell line revival and culture, Rubella virus infection and harvesting,
- Chick embryo culture.
- PALL iCELLis Bioreactor handling.

EDUCATION AND TRAINING

Master of Science in Virology – [June 2014 – June 2016]

Address: National Institue of Virology, 130, MCC, 1, Pashan - Sus Rd, Pashan, Pune, Maharashtra 411021

Field of study: Life sciences

Level in EQF: EQF level 7

Main courses: Basic Virology, Tissue Culture And Cell Biology, Basic Immunology, Basic Epidemiology And Biostatistics, Vector Biology, Virological Methods, Analytical Methods, Tissue Culture Techniques, Virus/Antigen Detection, Statistical Methods, Entomological Methods, Propagation Of Viruses, Gene Regulation And Recombinant, DNA Technology, Virus Cell Interaction, Virus Replication, Advanced Immunology, Applied Entomology, Applied Epidemiology, Bioinformatics, Antivirals And Vaccines, Molecular Techniques, Biochemical/Biophysical Methods, Serological Methods, Immunological Techniques, Medical Entomology, Epidemiological Data Management, And Analysis, Bioinformatics, Viral Enteric Diseases And Cancers, Viral Hepatitis, Viral Respiratory Diseases, Exanthematous Diseases Of Viral, Aetiology, Viral Hemorrhagic Fevers, Viral Encephalitis, HIV/AIDS, Veterinary And Agricultural Viruses

Dissertation Title: NK and NKT-like Cells Frequency and Functionality in Non-Chikungunya Arthritis Patients.

Bachelor of Science in Microbiology

Address: Dolat-Usha Institute of Applied Sciences And Dhiru-Sarla Institute Of Management And Commerce Dr. Moghabhai Vidhya Sankul, College Campus, Tithal Road, Valsad, Gujarat 396001.

Field of study: Life sciences

Level in EQF: EQF level 6

Main courses: Microbiology, Chemistry, Botany, Biodiversity, Written and Spoken communication, Nutrition and dietetics, Instrumentation and Techniques, Quality management in Laboratory, Language through literature, Environmental studies.

LANGUAGE SKILLS

Mother Tongue: **Marathi**

Other Language(s):

English: Listening – C1 Reading – C1 Writing – C2 Spoken production – C1 Spoken Interaction – C1

Hindi: Listening – C2 Reading – C2 Writing – C2 Spoken Interaction – C2
Marathi: Listening – C2 Reading – C2 Writing – C2 Spoken Interaction – C2

PUBLICATIONS

1. **Giri, P. S**., Dwivedi, M., Laddha, N. C., Begum, R., & Bharti, A. H. (2020). Altered expression of nuclear factor of activated T cells, forkhead box P3, and immune-suppressive genes in regulatory T cells of generalized vitiligo patients. *Pigment cell & melanoma research*, *33*(4), 566-578. **(Impact Factor: 4.8)**
2. **Giri, P. S**., Dwivedi, M., & Begum, R. (2020). Decreased suppression of CD8+ and CD4+ T cells by peripheral regulatory T cells in generalized vitiligo due to reduced NFATC1 and FOXP3 proteins. *Experimental Dermatology*, *29*(8), 759-775. **(Impact Factor: 3.6)**
3. **Giri, P. S**., Patel, S., Begum, R., & Dwivedi, M. (2021). Association of FOXP3 and GAGE10 promoter polymorphisms and decreased FOXP3 expression in regulatory T cells with susceptibility to generalized vitiligo in Gujarat population. *Gene*, 145295. **(Impact Factor: 3.6)**
4. Giri, P. S., Dwivedi, M. (2021). Meta-Analysis for Association of TNFA -308 G>A Polymorphism with Vitiligo Susceptibility. Gene (**Impact Factor: 3.6**).
5. Giri, P. S., Shah, F., Gupta, B., Dhangar, A., Pathak, V. N., Desai, B., & Dwivedi, M. (2021). Genetic association of interleukin-4 VNTR polymorphism with susceptibility to rheumatoid arthritis in South Gujarat population. *Gene Reports*, *25*, 101322.
6. Thanapati, S., Ganu, M., **Giri, P**., Kulkarni, S., Sharma, M., Babar, P., ... & Tripathy, A. S. (2017). Impaired NK cell functionality and increased TNF-α production as biomarkers of chronic chikungunya arthritis and rheumatoid arthritis. *Human immunology*, *78*(4), 370-374. **(Impact Factor: 2.412)**

Manuscripts yet to be published

- **Giri, P. S.,** Dwivedi, M. (2021). Inherent defect in calcium uptake inhibits NFATc1 and Calicneurin activation in Tregs of Generalized vitiligo patients. British Journal of Dermatology. (Impact Factor: 9.0) (Under communication).

  Giri, P. S., Dwivedi, M. (2021). Association of Interleukin-4 VNTR polymorphism with Rheumatoid Arthritis Risk and Disease Severity: A Meta-analysis Study. *Immunogenetics* (Impact Factor: 2.621) (Under communication).

Books Chapters

- Dwivedi, M., Shah, F., & **Giri, P. S**. (2021). Skin Microbiome, Its Impact on Dermatological Diseases, and Intervention of Probiotics. In. Microbiome-Host Interactions. DOI: 10.1201/9781003037521-11.
- **Giri P.S**, Shah F and Dwivedi M (2021). Probiotics and Prebiotics in suppression of Autoimmune diseases. Probiotics in The Prevention & Management of Human diseases: A Scientific Perspective, Elsevier (Accepted).

POSTER PRESENTATION, WORKSHOPS AND COURSES

Poster presentation

1. **Giri PS** and Dr. MiteshDwivedi* Inherent defects in the Ca2+–Calcineurin-NFAT signaling pathway in regulatory T cells results in generalized vitiligo pathogenesis, progression and severity **(Oral presentation) (First Price)**.
2. **Giri PS,** Patel SK, Dwivedi M, Altered Transcript Profile of NFATs-FOXP3 Genes Axis: A Deregulation of Regulatory T Cells in Generalized Vitiligo at National conference MOLMED 2019, CHARUSAT-Changa, September 25-27,2019 **(Poster presentation).**
3. Patel SK, **Giri PS**, Dwivedi M. FOXP3 Promoter Polymorphism May Cause Increased Susceptibility to Generalized Vitiligo in South Gujarat population. National conclave on sustainable CSR projects in rural area. 11-13th October 2019 **(Poster presentation) (Received 2nd Prize).**
4. Patel SK, **Giri PS**, Dwivedi M. Investigation of Genotype-phenotype correlation of FOXP3 promoter polymorphism for Generalized Vitiligo Susceptibility in South Gujarat population at National Conference on Current trends in biological sciences-V Sardar Patel University, 15th February 2020.
5. Gupta B, **Giri PS,** Dwivedi M Association of Interlukin-4 VNTR Polymorphsim with increased susceptibility to Rheumatoid Arthritis in South Gujarat Population at National Conference on Current trends in biological sciences-V Sardar Patel University, 15th February 2020.

Workshops Attended:

1. Attended 5 days National Level workshop on **"Hands On Workshop on Real-Time PCR"** at SRM institute of Science and Technology by SRM-DBT platform for Advanced Life Science Technologies.
2. Attended 5 days' workshop on "**Mammalian cell culture, cell-based staining, imaging &molecular expression techniques**" at National Institute of Pharmaceutical Education and Research-Ahmedabad
3. Attended 2 Day workshop on "**Scientific Writing, Publication Ethics & Data Analysis Using SPSS**" at Ria University, Ahmedabad.
4. Attended 1 Day workshop on "**Popular Science Writing**" at Institute of Seismological Research Ahmedabad".
5. Attended 3 day online workshop on **"Learning Flow cytometry online"** at flow cytometry solutions.

COURSES:

1. HTML, CSS and JavaScript at Coursera by The Hong Kong University of science and Technology.
2. Front-End Web UI Frameworks and Tools at Coursera by The Hong kong University of science and Technology.
3. The web developer Bootcamp at Udemy by Colt Steele covering HTML, CSS, JavaScript, Bootstrap, jQuery, NodeJS, ExpressJS, MongoDB.
4. HarvardX: CS50 Introduction to Computer Science.

ORGANISATIONAL SKILLS

Organisational skills

***2018*-2020** Good Team Leading skill gained at C.G. Bhakta Institute of Biotechnology, Trained post graduate students for their project work, Established cell culture facility, Performed mammalian cell culture and molecular biology related experiments,

***2016-2017*-** Biological E. Ltd played a role as Executive performed Virus culture experiments, managed log books Batch production reports, handled audits and prepared SOPs.

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- Dedicated, detailed and capable research assistant with 5 years of experimental research experience.
- Specialized in cell culture, molecular techniques, and microbial culturing.
- A confident presenter at conference able to explain complex information to audiences of all level.
- Having an ability to clench and learn new subjects and technologies easily and strongly believe in integrating multiple aspects of science to explore new avenues in science.
- A goal-driven and independent researcher with proven history in overseeing all projects from initial planning and team coordination to technical writing, data analysis and publication.
- An enthusiastic team player with effective communication skills and a proven ability to manage challenging research schedules while working in complex and highly demanding environments.

JOB-RELATED SKILLS

Job-related skills

Molecular and Cell Biology skills: Isolation of DNA, RNA, PCR, RT-PCR, Nested PCR, Agarose gel electrophoresis, SDS-page, western, southern and northern blotting, protein expression, labelling, primer designing, cell.

Mammalian cell culture: Primary cell culture, Cryopreservation,Revival, cell line maintenance, virus infection and Harvesting, Chick Embryo culture, Pall icellis bioreactor.

Immunological skills: *in vitro* functional assays, Indirect ELISA, Flow cytometry, *In-vitro* cytotoxicity assay (MTT assay) with different staining method , cell proliferation assay.

Microbiological skills: Isolation and purification of bacteria and fungi from all living source, antimicrobial activity by well diffusion, disc diffusion, Minimum inhibitory concentration, spread plate and streaking methods.

Boinformatic skill: Docking, PYMOL, BLAST, FASTA, PROMO3, Meta-analysis.

Software: GraphPad prism, SPSS JASP, Review manager.

PROJECTS

Exploring the Role of Regulatory T cells through NFATs and FOXP3 in Pathogenesis of Vitiligo

Assisted project under Department of Science and Technology-Science and Engineering Research Board

- Evaluated the expression of *NFAT* transcription factors and of *FOXP3/NFAT*-regulated immune modulatory genes in generalized vitiligo patient Tregs.
- Analyzed *FOXP3* polymorphisms in generalized vitiligo patients and correlated them with *FOXP3* expression in Treg cells.
- Analyzed the suppressive capacity of Tregs isolated from generalized vitiligo patients.
- Studied calcium-controlled NFAT activation in Tregs from generalized vitiligo patients and controls.
    - intracellular calcium influx in Tregs;
    - dose-dependent effect of calcium on the activation of NFATs in Tregs;
    - dose-dependent effect of calcium on calcineurin activation in Tregs;
    - Expression and activity of GSK-3β in Treg cells.

References produce upon need and request

Signature:

Name :Mr. Prashant Shankar Giri