

(Short CV in word Format)



1. Name of the Employee: **Dr. Supriya Saini**
2. Email id: **supriyasaini@nib.gov.in**
3. Designation: **Jr. Scientist**
4. Division/LAB: **Immunodiagnostic Kit and Molecular Diagnostic Laboratory**
5. Educational Qualification: **PhD in Life Sciences (DRDO,Delhi)**
6. Year of Joining: 29 June 2020
7. Professional Experience: Involved in QC evaluation of immunodiagnostic kits for Viral markers including HIV, HCV, HBsAg, Syphilis and Molecular Diagnostic kits for HIV RNA viral load, HBV DNA viral load, HCV RNA Qualitative and viral load and Multimarker blood screening Nucleic acid testing (NAT). Five years Research experience in molecular biology, serology, biochemistry, genomics, and bioinformatics practices with three months on-field training experience in international Defence expedition to high altitude. Recipient of UGC/CSIR JRF, ICMR JRF, DBT JRF and GATE. Presented papers in international conferences on molecular biology at Mannheim, Germany (awarded DST-SERB international travel grant) and at British Columbia in Canada under CSIR Scheme. Lifetime Member of Indian Science Congress.
8. Major Publications: (Total 14 Publications),
Major 10 Publications:
 - Global expression profiling and pathway analysis in two different population groups in relation to high altitude. 19(1):205-215. *Functional and Integrative Genomics* (2018). **Supriya Saini**, Praveen Vats, Susovon Bayen, Priya Gaur, Koushik Ray, Krishna Kishore, Meerim Sartmyrzaeva, Almaz Akunov, Abdirashit Maripov, Akpay Sarybaev, Bhuvnesh Kumar, Shashi Bala Singh.
 - Effect of Altitude and Duration of Stay on Pulmonary Function in Healthy Indian Males. **Supriya Saini**, Praveen Vats, Alpesh Kumar Sharma, Koushik Ray, Akpay Sarybaev, and Shashi Bala Singh. 3 (3), 307-312. *Defence Life Science Journal* (2018)
 - Role of BMP7 in Appetite Regulation, Adipogenesis and Energy Expenditure. **Supriya Saini**, Arul Joseph Duraisamy, Susovon Bayen, Praveen Vats, Shashi Bala Singh. *Endocrine*. 48(2)405-409. (2015)
 - Temporal transcriptome analysis suggest modulation of multiple pathways and gene network involved in cell-cell interaction during early phase of high altitude exposure. Priya Gaur, **Supriya Saini**, Koushik Ray, Kushubakova Nadira Asanbekovna, Almaz Akunov, Abdirashit Maripov, Akpay Sarybaev, Shashi Bala Singh, Bhuvnesh Kumar, Praveen Vats. *Plos one* 15 (9), e0238117. (2020)
 - PRMT1 promotes hyperglycemia in a FoxO1-dependent manner, affecting glucose metabolism, during hypobaric hypoxia exposure, in rat model. Bayen S, **Saini S**, Gaur P, Duraisamy AJ, Kumar Sharma A, Pal K, Vats P, Singh SB. *Endocrine* doi:10.1007/s12020-017-1463-6. (2017).

- Genome-wide analysis reveals high-altitude hypoxia-induced ras/rap1 signaling as an acclimatization response in kyrgyz as compared with indian males. Priya Gaur, **Supriya Saini**, Praveen Vats, Bhuvnesh Kumar. *High altitude medicine and biology*. 19 (4), A405-A472 December 2018.
- Comparative analysis of high altitude hypoxia induced erythropoiesis and iron homeostasis in Indian and Kyrgyz lowlander males. Priya Gaur, **Supriya Saini**, Koushik Ray, Krishna Kishore, Kushubakova Nadira Asanbekovna, Almaz Akunov, Abdirashit Maripov, Yogendra Kumar Sharma, Sanjeev Kumar Sharma, Bhuvnesh Kumar, Shashi Bala Singh, Akpay Sarybaev, Praveen Vats. *Current Research in Biotechnology* 2, 120-130. (2020)
- Cardiac Acclimatization at High Altitude in Two Different Ethnicity Groups. Priya Gaur, Meerim Sartmyrzaeva, Abdirashit Maripov, Kubatbek Muratali Uulu, **Supriya Saini**, Koushik Ray, Krishna Kishore, Almaz Akunov, Akpay Sarybaev, Bhuvnesh Kumar, Shashi Bala Singh, Praveen Vats. *High Altitude Medicine & Biology* <https://doi.org/10.1089/ham.2020.0035>. (2021)
- Influence of altitude on pulmonary function: a comparative study on Indian and Kyrgyz Healthy males. Priya Gaur, **Supriya Saini**, Kaushik Ray.....Praveen Vats, Bhuvnesh Kuamar. *Defence Life Science Journal*. Feb 2020
- Changes in ghrelin, CCK, GLP-1 and peroxisome proliferator-activated receptors in hypoxia induced anorexia rat model. Arul Joseph Duraisamy, Susovon Bayen, **Supriya Saini**, Alpesh Kumar Sharma, Praveen Vats and Shashi Bala Singh. *Endocrinologia polska*. 66(4)334-341 (2015).