

JSSAHER / DBT BUILDER Project



Mr. Siddharth Birla
JRF DBT-BUILDER
JSS Medical College & Hospital
Email Id:

Education Details: M.Sc. Applied Genetics (Bangalore North University)

Research Interests:

Genetics of genetic disorders, Pharmacogenomics and Therapeutics of genetic disorders

Technical Skills:

- Molecular extraction techniques including DNA and RNA extraction from blood, PBMCs, dry blood spots, Sanger sequencing & PCR
- LC-MS/MS for New Born Screening (quantitative analysis)
- Fluorescence *in situ* hybridization technique
- *Drosophila* husbandry
- Microbiological techniques including bacterial culture
- Bioinformatics skills including retrieval of biological sequences, primer designing, sequence alignment and analysis, phylogenetic analysis
- Basic computer operations, Linguistic skills include Hindi and English

Publications:

- 2023
- **Birla S**, Angural A, Madathumchalil A, Shende RV, Shastry SV, Mahadevappa M, Shambhu SK, Vishwanath P and Prashant A (2023) Redefining the polypill: pros and cons in cardiovascular precision medicine. *Front. Pharmacol.* 14:1268119. doi: 10.3389/fphar.2023.1268119
 - Anshu Kumar Yadav, Aparna Kodakkat Chakkumkollath, Aysha Helna, **Siddharth Birla**, Rajesh Kumar Thimmulappa, Sunil Kumar Shambu, Prashant Vishwanath, and Akila Prashant. Substantiation of a Clopidogrel metabolism-associated gene (*CYP2C19*) variation among healthy individuals. *Indian Heart Journal*. doi: <https://doi.org/10.1016/j.ihj.2023.05.005>
 - Arshia Angural, **Siddharth Birla**, Anju Srinivas, Akila Prashant, and Basavana Gowdappa Hattur. Birth Defects: A Call For Action. *A Joint Publication of the NAM S&T Centre and JSS Medical College, JSS Academy of Higher Education & Research*. Document No. STI-FF/02/2023:1-4.

- 2021
- **Siddharth Birla**. Plasma Therapy as a Last Resort in Combating COVID-19? *Research & Reviews: A Journal of Microbiology and Virology*. 11(1):25-29.
doi: <https://doi.org/10.37591/rjomv.v11i1.2253>
 - **Siddharth Birla**. Predicting the Third Wave over the Footsteps of Spanish Flu. *International Journal of Current Science Research and Reviews*. 4(8):1032-1034.
doi: 10.47191/ijcsrr/V4-i8-20
- 2020
- Jeniben Jyotindra Bhaya, **Siddharth Birla**, and Nasser WadhahSalem Mohammed. Study of *INSR* Gene Polymorphism Variant rs2252673 and Rs545885277 In Association With PCOS In Indian Population. *International Journal of Recent Scientific Research*. 11(12), pp. 40388-40393.
doi: <http://dx.doi.org/10.24327/ijrsr.2020.1112.5685>
 - **Siddharth Birla**, and Vedashree S. MICROBIAL DIVERSITY AND PHYSICOCHEMICAL ASSESSMENT OF LAKE WATER. *International Journal of Engineering Applied Sciences and Technology*. 4(10):2455-2143.
 - G. Vanitha Ramesh, Jeniben Jyotinra Bhaya, and **Siddharth Birla**. Evaluation of Developmental Toxicity of Various Food Preservatives Using *Drosophila Melanogaster*. *International Journal of Science and Research*. 9(6): 27-34.
DOI: 10.21275/SR20524221955