

# SWETA SINGH

## PERSONAL INFORMATION

- **Date of Birth:** 1<sup>st</sup> Jan 1988
- **Sex:** Female
- **Nationality:** Indian
- **Email:** swetanavneetsingh@gmail.com or swetasinghm.sc@gmail.com
- **Phone No.:** +91-9623089130 Alt.Mobile no. +91-9968602028
- **Present Address:** Mrs. Sweta Navneet Singh  
Flat no.301, Y-4,  
Yamuna Apartment, D-6,  
Sector D, Vasant Kunj,  
New Delhi-110070
- **Strength:** Self Confidence, perseverance, fast learner, team spirit and adaptability
- **Languages known:** Hindi, English, Bengali, Marathi, Bhojpuri and Spanish



## WORK EXPERIENCE

- **February,2021-June,2021:** ICGEB, New Delhi
  - Worked as a Researcher in Metabolic Engineering group for biofuel production from algae.
- **January,2020-September2020:** Universidad Distrital Francisco José de Caldas: Bogota, Colombia
  - Worked as a Researcher on COVID-19 data analysis and drug discovery project in silico
- **September, 2014-Present:** Savitribai Phule Pune University, Pune India
  - Pursuing PhD in Zoology  
(Please note: I have completed my PhD research work focussing in the field of biotherapeutics and biotechnology).
- **September,2017-March,2019:** Institute of Biotechnology and Bioinformatics, Pune, India
  - Worked as a Project Assistant
- **November, 2013-July, 2014:** National AIDS Research Institute, Pune India
  - Worked as Junior Research Fellow
- **September, 2012-May, 2013: Ventri Biologicals Pvt Ltd.**
  - Worked as Officer Microbiologist at Vaccine Research and Development Centre, concentrating on Poultry Industry Research Work.
- **December, 2011-April, 2012: IISER, Pune.**
  - Worked as a M.Sc dissertation student and completed a project titled "*Molecular Cloning of deacetylases from Hydra Vulgaris*"
- **December,2009- January,2010: Fergusson College, Pune.**
  - Completed one year graduation research project on "*Cytotoxic / cytoprotective effects of certain compounds by using liver slice culture*" under Dr.Dhanashri Godbole.
- **September,2007- August,2008: Bharatiya Vidya Bhawan's Mukangan Exploratory Science Centre, Pune.**
  - Worked as a PICC project student and completed project titled "*Effect of Lithium Chloride on the regeneration of hydra*" under Dr. Saroj S.Ghaskadbi in the Zoology department of Pune University, India.

## INTERNATIONAL CONFERENCES

- Presented an oral paper in a 3rd International Diabetes Summit -2019 held in Pune from 8th-10th March,2019.
- Presented a poster in the first "International Conference on Applied Informatics 2018" held in Bogota, Colombia.

## EDUCATION

Year	Degree/Exams	College/School	%age
2014-2022	PhD (Zoology)	Savitribai Phule Pune University	To be awarded
2013	GATE	NA	92 percentile
2010-2012	Master of Science in Biotechnology	Pune University, Fergusson College, India	71%
2007-2010	Bachelor of Science in Biotechnology	Pune University, Fergusson College, India	64%
2006	Higher Secondary Certificate	Maharashtra Board, St. Mira's College,India	69.17%
2004	Secondary School Certificate	ICSE, Loreto Convent, Asansol, India	72.80%

## SCHOLASTIC ACHIEVEMENTS

- Bengal excellence Award 2020 By Press Club of Asansol Megacity
- Young Researcher Award 2020 by InSc
- Honored to be a member at the editorial team for an international journal known as 'Paradigmplus' since January,2020.
- Privileged to be a Program Committee member for two consecutive years at the ICAI 2019(Second International Conference on Applied Informatics) and ICAI 2020 (Third International Conference on Applied Informatics).
- Qualified GATE ( Biotechnology) in 2013 with 92 percentile
- Selected in the PICC(Pune Inter College Consortium) competition 2007-2008
- Secured first prize in the poster presentation for "*Cytotoxic / cytoprotective effects of certain compounds by using liver slice culture*" at 'National seminar in frontiers of Biotechnology and Bioinformatics 2011' held at D.Y.Patil College,Pune, India

## SKILLS

- Wet lab techniques (Biochemistry, Protein purification, Molecular Biology, Plant tissue culture, Animal tissue culture, Microbiology and Enzymology).
- Bioinformatics such as primer designing, sequence analysis, drug discovery studies such as docking studies using vina, Schrodinger, PyMol, ChemAxon and Discovery Studio. Biostatistics using programme such as origin.
- Techniques including cloning (TA, TOPO and subcloning), protein expression, SDS PAGE, Agarose gel electrophoresis, western blotting and immunostaining, ELISA, qPCR, conventional PCR, RT PCR, plasmid isolation, restriction digestion, regeneration experiments, animal cell lines maintenance and passaging, media preparation, inoculation of various poultry viruses via CAM, chorio-allantoic and intra yolk sac route into the embryonated eggs and sequencing.
- Attended and successfully completed "Biosafety Training" held at National AIDS Research Institute.

## COMPUTER PROFICIENCY

- Basics
- Linux
- Microsoft Office

## WORKSHOPS

- Completed workshop on "Quality Control and Quality Assurance in Industry" held at Fergusson College from 24-02-2011 to 4-03-2011.
- Completed "Basic Linux Workshop" held at Centre for Modeling and Simulation, S.P.P,U from 24-07-2015 to 25-07-2015.
- Completed Workshop on " Modeling & Simulation in Public Sphere" organized by Centre for Modeling and Simulation, S.P.P,U on 28-03-2015.
- Completed workshop on "Computational Approaches in Drug Design" organized by the Bioinformatics Centre, S.P.P.U from 12-12-2016 to 14-12-2016.
- Completed and qualified the theory, hands-on and assessment on "Introduction to Computational Drug Design" co-organized by Schrodinger and Pharmacy Council of India from 21-09-2020 to 23-10-2020.
- Participated in Drug Discovery Hackathon in 2020 organized by government of India.

## HOBBIES

- Reading
- Dancing
- Sketching
- Writing
- Collecting rare coins
- Cooking
- Travelling and exploring new places
- Vlogging [Youtube channel: Life Basics (<https://www.youtube.com/watch?v=RjU2VRhw14Y>)]
- Learning new things such as beginners in guitarist
- Likes to help as many as possible by doing volunteer social work as and when possible such as participation in " ALL women bike rally by Maharashtra Times, Lok Biradari Mitramandal Pune(Dr.Prakash Amte's group) and Desh ke Mentors.

## PUBLICATIONS

- Singh, S., & Florez, H. (2020). Coronavirus disease 2019 drug discovery through molecular docking. *F1000Research*, 1–10. Retrieved from <https://doi.org/10.12688/f1000research.24218.1>
- Florez, H., & Singh, S. (2020). Online dashboard and data analysis approach for assessing COVID-19 case and death data. *F1000Research*, 1–9.
- Singh S and Florez H. Bioinformatic study to discover natural molecules with activity against COVID-19. *F1000Research* 2020, 9:1203 (<https://doi.org/10.12688/f1000research.26731.1>)

## PERSONAL REFERENCES

- Prof.Hector Florez  
Universidad Distrital Francisco José de Caldas: Bogota, Colombia  
Informatics  
Email id: haflorezf@udistrital.edu.co
- Dr. Shobha Bhargava  
Professor, Emeritus Scientist, Department of Zoology  
Savitribai Phule Pune University, Pune-411007, India  
Email id: shobha@unipune.ac.in  
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- Dr.Ameeta Ravi Kumar  
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