CONTACTS

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PERSONAL INFORMATION

Fathers name: Rajkumar Singhal

Mothers name: Prabha Singhal

Date of Birth: 13/01/1996

LANGUAGES

- English
- Hindi

Apurwa Singhal

DBT- Senior Research Fellow

Pharmacology Division

CSIR-Central Drug Research Institute,
Sector 10, Jankipuram Extension
Lucknow-226031 (India)

Academic Details

Senior Research Fellow (2019- Present)
Central Drug Research Institute

Project Assistant (2018- 2019)
Central Drug Research Institute

Master of Science in Biotechnology (2016-2018)
CGPA:9.28
Banaras Hindu University, Varanasi

Bachelor of Science in Biotechnology (2013-2016)
Percentage: 72.8%
CCS University, Meerut

Spring Fields College, Moradabad (2013)
Indian School Certificate Examination (Class XII)

Spring Fields College, Moradabad (2013)
Indian Certificate of Secondary Education Examination (Class X) (2011)

Technical skill and interest

Area of interest: Neutrophil, Cell deaths, Neutrophil Extracellular traps, Pyroptosis, DAMPs, Inflammation, Cell culture, Clearance, Efferocytosis, Neutrophil chemotaxis.

Technical Skills: Animal handling, Western blotting, Immunohistochemistry, ELISA, Flow cytometry, High Content Screening-Cellomics.

Academic achievements

- JNU- Combined Entrance Examination for Biotechnology 2016 (All India Rank 92)
- Qualified CSIR-NET (LS) 2018
- Qualified GATE- life science exam.
- Qualified DBT-JRF 2019

Co-curricular activities

- **Abstract Presentation:** Apurwa Singhal, Ramandeep Singh, Sachin Kumar "the role of neutrophil in immunotolerance and inflammation" 8-9 July 2022, 48th Annual Conference India Immunological Society, Banaras Hindu University, Varanasi.

Research Projects

- Redox regulation of immune cells, neutrophils in insulin resistance and type 2 diabetes.
- Role of Rho A signalling in regulation of neutrophils chemotaxis during LPS induced lung inflammation.
- Screening of potential modulators/inhibitors for Neutrophil extracellular traps (NETs) in therapeutic targeting of multiple disease pathologies.
- Identification of diverse neutrophil cell deaths and remnants leading to immunotolerance vs immunogenic outcomes and their clearance mechanisms.
- "Isolation of melanin pigment and impact of UV-B radiation stress on its synthesis and protein turn over in bacteria" (Master's Thesis, under guidance of Prof Ashok Kumar, BHU, Varanasi).

Publications

1. **Singhal A,** Yadav S, Chandra T, Mulay SR, Gaikwad AN, Kumar S. An imaging and computational algorithm for efficient identification and quantification of neutrophil extracellular traps. **Cells** 2022, 11(2), 191; https://doi.org/10.3390/cells11020191
2. **Singhal A,** Kumar S. Neutrophil and remnant clearance in immunity and inflammation. **Immunology** 2022 Jan;165(1):22-43.
3. **Singhal A,** Dhankani P, Mazumder J, Adithya R, Dikshit M, Kumar S. Rho signaling inhibition mitigates lung injury via targeting neutrophil recruitment and selectin-AKT signaling. **Biochimica et Biophysica Acta (BBA)-Molecular Cell Research** 2021 Nov;1868(12):119122.