SAMIR SHARMA

POSITION: Associate Professor, Department of Biochemistry, University of Lucknow

TEACHING EXPERIENCE: ~20 Years (on permanent position)

RESEARCH FOCUS:

A. Redox signaling between axis and cotyledons
B. Ca^{2+} protease mediated storage protein mobilization
C. Stage specific expression of SOD isoforms during germination and seedling establishment **D.** Alternative respiratory pathways in developing tissue under stress.
D. Origin of Nitric Oxide (NO) during germination and seedling establishment: Reductive pathway or oxidative?
E. Role of lysosomal proteases/Cathepsins in disease.

Publications (Last 10 years)

RESEARCH PAPERS IN PEER REVIEWED JOURNALS :

1. Verma G, Sharma S (2010): ***Ind. J. Biochem. Biophys.*** 47: 249-253. IF=1.026 **(CSIR-NISCAIR)**
2. Khan S, Verma G and Sharma S (2010): ***J. Plant Physiol.*** 167 (11): 855-861. IF=2.699 **(Elsevier)**
3. Singh P, Sharma S and Prasad V (2011): Plants. ***J. Phytopathol*****.** 159: 127-129. IF=1.0 **(Blackwell)**
4. Verma G, Mishra S, Sangwan NS and Sharma S (2015): ***J. Plant Physiol.*** 184: 79-88 **(Elsevier)**
5. Yadav N. and Sharma S. (2016): ***Biol. Forum.*** 8(1): 414-419. **(Research Trends)**
6. Agarwal SK, Ukil A and Sharma S (2016): ***J. Biochem. Tech.*** 7(1): 1051-1057
7. Yadav N., Vati K, Agarwal SK and Sharma S (2018): ***Trop plant Biol.*** 11: 66-77. **(Springer)**
8. Verma G, Khan S, Agarwal SK and Sharma S (2019): ***J. Plant Physiol.*** 236: 66-73. **(Elsevier)**
9. Singh S, Sharma S and Agarwal SK (2020): ***Biochem. Biophys Rep.*** https://doi.org/10.1016/j.bbrep.2020.100739 **(Elsevier)**

CHAPTERS IN BOOKS:

1. Verma G and Sharma S (2012): In Advances in Plant Physiology: An International Treatise Series. Volume 13, Chapter 11, **Science Publishers (Jaipur).** ISBN: 978-81-7233-798-8 Pages: 349-385.
2. Sharma S: In Alternative Pathways in Plant Respiration. **Wiley Blackwell (London)** (2015)**.** ISBN: 978-1-11-79046-5. pp115-155.
3. Sharma S (2015): In Reactive Oxygen and Nitrogen Species Signaling and Communication in Plants. **Springer (London).** ISBN 978-3-319-10078-4. pp 301-316.
4. Sharma S and Agarwal SK (2018): in: Senescence Signalling and Control in Plants. **Elsevier (Academic Press)**. ISBN: 9780128131879

PROJECTS HANDLED:

1. Investigations into Early Events in Signaling During Induction of Systemic Antiviral Resistance in Susceptible Plants. (As co-investigator) Funding Agency: DBT, GOI. **Total funding ~ 37 lacs (2006-2009)**
2. Control of Storage Protein Mobilization in Mungbean: Identification, Characterization and Role of a Novel Ca^{2+} activated protease. Funding Agency: CSIR. **Total funding ~ 21 lacs (2009-2012)**

3. Deputy Coordinator, Dept. of Higher Education, UP State Govt. funded Center of Excellence in Biochemistry**. Total funding received till date ~ 2.0 Crore (2011 till present sanction upto 2018)**

Ph.D SUPERVISION: **Three students awarded, five presently enrolled**.

ADMINISTRATIVE RESPONSIBILITIES: Member, Executive Council, LU (2008-2009), Member, Academic Council, LU (2013-2014), Member, Board of Studies and DRC of The Department of Biochemistry, Member, Lucknow University Research Council.

MEMBERSHIP OF PROFESSIONAL SOCIETIES:

- Society of Biological Chemists-India
- Society for Free Radical Research-India
- Indian Science Congress Association
- Indian Society of Agricultural Biochemists
- Indian Society of Plant Physiology

REVIEWER:

Elsevier:

- Journal of Plant Physiology
- Plant Physiology and Biochemistry
- Environmental and Experimental Botany
- Plant Science
- Scientia Horticulturae

Cambridge Journals:

- Seed Science Research

NISCAIR (CSIR):

- Indian Journal of Biochemistry and Biophysics

Current Science Association/Indian Academy of Sciences:

- Current Science