

BIOGRAPHICAL SKETCH

NAME SAROJ KUMAR AMAR	POSITION TITLE Associate Professor & Teacher In-Charge, Department of Forensic Science, School of Basic & Applied Science Adamas University, Kolkata, India Email: sarojkumaramar@gmail.com Email: saroj.amar1@adamasuniversity.ac.in Phone: +91 9450902377, +1 4752348819
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EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YYYY	FIELD OF STUDY
University of Delhi, India	B.S.	05/2008	Life Science (57%)
LNJN - National Institute of Criminology & Forensic Science, Delhi, India Qualified NET & JRF in December 2009	M.S.	05/2010	Forensic Science (71%)
CSIR-Indian Institute of Toxicology Research, Lucknow, India	PhD	05/2015	Environmental / Forensic Toxicology (Awarded)
Galgotias University, UP, India	Assistant Professor (Forensic Science)	01/2015- 12/2016	Forensic Science
Lovely Professional University, Punjab, India	Assistant Professor (Forensic Science)	01/2017- 03/2017	Forensic Science
Yale University, CT, USA	Postdoctoral Research Associate	04/2019 - 03/2020	Phototoxicity/Genotoxicity
US Army ERDC, Vicksburg, MS, USA	Research Toxicologist	04/2020 – 03/2024	Neurotoxicity/Inhalation Toxicity/Toxicogenomics
Adamas University Kolkata, India	Associate Professor	07/2024- till date	Teaching & Research

A. Personal Statement

Work done at US Army ERDC: The objective of our research was to explore the neurotoxicity and immunotoxicity resulting from pesticide and ammonia exposure in a rat model. Specifically, we aim to assess alterations in cognitive functions and the mental and physical well-being of individuals exposed to pesticides. Additionally, we investigate lung inflammation induced by ammonia exposure. Our study involves comprehensive analyses of environmental chemical-induced inhalation and dermal toxicity using various in-vitro and in-vivo toxicological parameters. These parameters include Toxicogenomics, RNA sequencing, and miRNA approaches applied to both rat models and cell lines. Our research integrates advanced techniques such as TempO Sequencing with a rat surrogate toxicology panel and Next Generation Sequencing. For RNA sequencing transcript analysis, we utilize software tools such as Partek Flow, Ingenuity Pathway Analysis, Core & Metacore. We employ ClueGO and KEGG for gene enrichment analysis, and utilize the STRING database for protein-protein interaction network analysis and functional enrichment.

Furthermore, our work extends to predicting chemical-induced toxicity through the development of adverse outcome pathways, following the guidelines outlined in AOP Wiki and AOP OECD. Through this multidimensional approach, we aim to provide a comprehensive understanding of the impact of pesticide and ammonia exposure, ultimately contributing valuable insights to the field of toxicology.

Experience at Yale University: Our study aims to uncover the genotoxic and phototoxic effects on melanocytes, focusing on delayed DNA damage and repair mechanisms. We employ primary cultures of melanocytes from both mice and humans for our research. Techniques such as luminescence and calorimetric ELISA are utilized to detect cyclobutane pyrimidine dimers (CPDs), a marker of DNA damage.

Immunocytochemistry and immunohistochemistry methods are employed, along with DNA purification techniques, to delve into the intricate processes of DNA repair.

Our investigation was centered on understanding the mechanisms behind UV-induced phototoxicity in melanocytes. This includes studying the quenching of triplet states with algal extracts and exploring the phenomenon of delayed DNA damage. Additionally, our research delves into the intricate process of dark CPD formation in melanocytes, shedding light on the molecular intricacies of these phenomena.

Assistant Professor (Forensic Science) at Lovely Professional University and Galgotias University, India

I provided instruction and research mentorship to undergraduate, graduate students, covering various areas within Forensic Biology Serology and DNA Fingerprinting, and Forensic Toxicology.

B. Positions and Honors

Positions and Employment after PhD

01/2015-12/2016	Assistant Professor - Forensic Science, School of Applied Science, Galgotias University, India
01/2017-03/2019	Assistant Professor-Forensic Science, School of Bioengineering and Biosciences, Lovely Professional/University, India
04/2019-03/2020	Postdoctoral fellow, School of Medicine, Yale University, USA
04/2020-03/2024	Research Toxicologist (ORISE Postdoctoral fellow), Environmental Laboratory, US Army Engineering Research and Development Centre, Vicksburg, MS, USA

Best Paper Presentation Award

1. Elsevier best postdoctoral award in Society of Toxicology (SOT) Annual meeting march 2022. (International Conference in USA)
2. 1st Place Poster Award—SOT annual meeting March 2021,- In Vitro and Alternative Methods (IVAM) award category, 2021 (International Conference in USA)
3. Saroj Kumar Amar, Shruti Goel, Ashish dwivedi, Faiz mujtaba, Neera yadav, Ankit verma, A.B Pant and Ratan Singh Ray. “Photosensitizing potential of Benzophenone-2 at environmental UV radiation.” 32nd Annual STOX meeting 5-7th December 2012.CSIR- IITR Lucknow. (Best poster award STOX-India 2012).
4. Saroj Kumar Amar, Shruti Goyal, H N Kushwaha, Divya Dubey, Ankit verma, R K Chaturvedi and Ratan Singh Ray. “Caspase 3 dependent apoptotic cell death induced by benzophenone 1 through mitochondrial signaling pathway at environmental UVR.” National conference on Ethnopharmacology and Biotechnology in Drug Development: Prospect and challenges. 14-15th November 2014.Bundelkhand University Jhansi. (Best poster award SFE-INDIA 2014).

Travel Award/Scholarship

1. American Society for Photobiology's Frederick Urbach Memorial Student Travel Award 2014. 37th Meeting of the American Society for Photobiology. San Diego, California. June 14-19, 2014.
2. Travel Scholarship by Centers for Disease Control and Prevention to attend ORISE Enrichment Event: Genomics and Precision Public Health Issues, held at Atlanta, September 7-8, 2023

Membership

- * Postdoctoral member of Society of Toxicology (SOT)
 - * Associate member of Society of Environmental Toxicology and Chemistry (SETAC).
 - * Reviewer of different journals of toxicity (Review done till date = 50+)
 - * Editorial Board Member of Journal of Ocular and Cutaneous Toxicology
 - * Delivered many invited talk to different university, University of Delhi, Galgotias University, G.D Goenka University, and ICCVAM forum 2021. (<https://ntp.niehs.nih.gov/iccvam/meetings/iccvam-forum-2021>), Eastern kentucky University.
 - * Qualified UGC-NET-JRF (Junior Research Fellowship) December 2009, Conducted by UGC, Government of India.
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Selected Peer-reviewed Publications in different journal of Biomedical Research.

1. **Saroj Kumar Amar**, Shruti Goyal, Divya Dubey, Ajeet K Srivastav, Deepti Chopra, Jyoti Singh, Jai Shankar, Rajnish K Chaturvedi, Ratan Singh Ray. Benzophenone 1 induced photogenotoxicity and apoptosis *via* release of cytochrome c and Smac/DIABLO at environmental UV radiation. *Toxicology Letters* 239 (2015) 182–193 (IF: 4.27)
 2. **Saroj Kumar Amar**, Shruti Goyal, Syed Faiz Mujtaba, Ashish Dwivedi, Hari Narayan Kushwaha, Ankit Verma, Deepti Chopra, Rajnish K. Chaturvedi, Ratan Singh Ray, Role of type I and type II reactions in DNA damage and activation of caspase 3 via mitochondrial pathway induced by photosensitized benzophenone. *Toxicology Letters* 235 (2015) 84–95. (IF: 4.27)
 3. **Saroj Kumar Amar**, S Goyal, AK Srivastav, D Chopra, RS Ray. Combined effect of Benzophenone-2 and ultraviolet radiation promote photogenotoxicity and photocytotoxicity in human keratinocytes. *Regulatory Toxicology and Pharmacology*. **Volume 95**, June 2018, Pages 298–306. (IF: 3.6)
 4. **Saroj Kumar Amar**, AK Srivastav, D Dubey, D Chopra, J Singh, SF Mujtaba. Sunscreen-induced expression and identification of photosensitive marker proteins in human keratinocytes under UV radiation. *Toxicology and industrial health* 35 (7), 457-465 (IF 1.85)
 5. **Saroj K. Amar**, Keri B. Donohue, Kurt A. Gust* Involvement of ROS in ethyl parathion induced neurotoxicity in human neuronal cells SH5Y. *Toxicol Sci.* 2023 Feb 17;191(2):285-295 (IF; 4.10)
 6. **Saroj K. Amar**, Lauren R. May, Alan J. Kennedy, Renee M. Styles, Ranju Karna, Mark A. Chappell and Kurt A. Gust* Sunlight-Induced Degradation of Dissolved Ethyl-Parathion and Toxicity Investigation of Resultant Degradation Products (*ChemistrySelect* 2023, 8, e202300410). (IF 2.3)
 7. Shruti Goyal, **Saroj Kumar Amar**, Divya Dubey, Manish Kumar Pal, Jyoti Singh, Ankit Verma, Hari Narayan Kushwaha, Ratan Singh Ray. Involvement of Cathepsin B in mitochondrial apoptosis by Paraphenylenediamine under ambient UV radiation. *Journal of Hazardous Materials* 300 (2015) 415-425 (IF:13.6)
 8. Shruti Goyal, **Saroj Kumar Amar**, Ajeet K. Srivastav, Deepti Chopra, Manish Kumar Pal and Ratan Singh Ray. ROS mediated crosstalk between endoplasmic reticulum and mitochondria by Phloxine B under environmental UV irradiation. *Journal of photochemistry and photobiology b biology* 161(2016) 284–294. (IF:6.8)
 9. Shruti Goyal, **Saroj Kumar Amar**, Ashish Dwivedi, Syed Faiz Mujtaba, Hari Narayan Kushwaha, Deepti Chopra, Manish Kumar Pal, Dharendra Singh, Rajnish Kumar Chaturvedi and Ratan Singh Ray. “Photosensitized 2-Amino-3-hydroxypyridine induced mitochondrial apoptosis via Smac/DIABLO in human skin cells”. *Toxicology and Applied Pharmacology* 297 (2016) 12–21 (IF: 4.46)
 10. R S Ray, S F Mujtaba, A Dwivedi, N Yadav, A Verma, H N Kushwaha, **Saroj Kumar Amar**, S Goel, D Chopra. Singlet oxygen mediated DNA damage induced phototoxicity by Ketoprofen resulting in mitochondrial depolarization and lysosomal destabilization *Toxicology*.314(2013).229-237 (IF; 4.5)
 11. Ajeet K. Srivastav , Syed Faiz Mujtaba , Ashish Dwivedi , **Saroj Kumar Amar** , Shruti Goyal, Ankit Verma, Hari N. Kushwaha , Rajnish K. Chaturvedi and Ratan Singh Ray. Photosensitized rose bengal induced phototoxicity on human melanoma cell line under natural sunlight exposure. *Journal of Photochemistry & Photobiology, B: Biology* 156 (2016) 87–99 (IF.6.8)
 12. A Dwivedi, S F Mujtaba, N Yadav, H N Kushwaha, **Saroj Kumar Amar**, S K Singh, M C Pant, R S Ray. Cellular and molecular mechanism of ofloxacin induced apoptotic cell death under ambient UV-A and sunlight exposure. *Free Radical Research*. Volume 48, Issue 3, 2014 (IF; 4.2)
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13. Jyoti Singh, Ashish Dwivedi, Lipika Ray, Deepti Chopra, Divya Dubey, Ajeet K Srivastva, Smita Kumari, Randheer Kumar, **Saroj Kumar Amar**, Chandana Haldar, Ratan Singh Ray. PLGA nanoformulation of Sparfloxacin enhanced antibacterial activity with photoprotective potential under ambient UV-R exposure. *International Journal of Pharmaceutics*. Feb. 2018. (IF; 5.8)
14. Moores LC, Kennedy AJ, Rabalais L, Jones SJ, George GW, Zetterholm SG, Acrey B, **Amar SK**, Gust KA. Effect of UV-light exposure duration, light source, and aging on nitroguanidine (NQ) degradation product profile and toxicity. *Sci Total Environ*. 2022 Feb 4; 823:153554. (IF;10.7)
15. Angelé-Martínez C, Goncalves LCP, Premi S, Augusto FA, Palmatier MA, **Amar SK**, Brash DE. Triplet-Energy Quenching Functions of Antioxidant Molecules. *Antioxidants*. 2022; 11(2):357. (IF 7.0)
16. Kishu Ranjan, **Saroj Kumar Amar**, Regulation of Oxidative Imbalances in Mitochondria and Endoplasmic Reticulum. *Am J Biomed Sci & Res*. 2020 - 7(2). *AJBSR.MS.ID.001124*. DOI: 10.34297/AJBSR.2020.07.001124 (IF;0.8)
17. Shruti goyal, **Saroj Kumar Amar**, HN Kushwaha, J Singh, AK Srivastav. Toxicological potential of parabens-a widely used preservative. *Global journal of multidisciplinary studies 4 (1)*, 77-86 (IF;1.3)
18. **Saroj Kumar Amar**, Kurt A. Gust, Hoke, Allison, Sowe, Bintu, Gautam, Aarti, Hammamieh, Rasha, Alan J. Kennedy, Lee C. Moores, Natalie D. Barker, Jessica Ji. Mechanistic evaluation of UV-degraded NQ toxicity increase in *Daphnia pulex*: A transcriptome sequencing approach. (Under development).
19. **Saroj. K. Amar**, C. P. Gut, R. M. Styles, R. J. Johnson, D. M. Holtzapple, J. L. Stricker, S. M. McInturf, E. A. Phillips, K. L. Mummy, D. R. Mattie, M. A. Chappell and K. A. Gust. Effects of inhalation of neat and ethyl parathion incorporated soil on acetylcholinesterase dependent neurotoxicity in a Sprague Dawley rat model. (ready for communication)

Book Chapter published (springer & Bantham Sciences).

1. **Saroj Kumar Amar**, Kumar D. (2019) Chemiexcitation of Melanin and Melanoma Pathogenesis. In: Dwivedi A., Agarwal N., Ray L., Tripathi A. (eds) *Skin Aging & Cancer*. Springer, Singapore
 2. **Saroj Kumar Amar**, Ajeet Kumar Srivastav, and Swayam Prakash Srivastava (2020) Advances of the Current Therapeutic Approach for the Management of Breast Cancer. In Shankar Suman, Garima Suman and Sanjay Mishra. *Current Advances in Breast Cancer Research: A Molecular Approach, 2020, 328-345, Bantham Sciences*
 3. **Saroj Kumar Amar**., Anand U., Verma A. (2021) Cerebrovascular Imaging in a Rodent Stroke Model. In: Tripathi A.K., Singh A.K. (eds) Models and Techniques in Stroke Biology. Springer, Singapore. https://doi.org/10.1007/978-981-33-6679-4_7
 4. **Saroj Kumar Amar**, Deepti Chopra (2022). Sunscreen: Toxic effect as determine by biomarkers. Biomarker in toxicology (pp1-21). Springer.
 5. Mohd. Danish Kamar , Madhu Bala, Apeksha Vikram, Sunil Kumar Patel, Gaurav Prajapati and **Saroj Kumar amar** "Solar Radiation and Phototoxicity of Cosmetics: Avenues of In Vitro Skin Models" Book: Skin 3-D Models and Cosmetics Toxicity. Springer Nature. DOI : 10.1007/978-981-99-2804-0
 6. Goyal S., Srivastav A.K., **Saroj Kumar Amar**, Agnihotry S., Ray R.S. (2018) Phototoxicity of Hair Dyes: Challenge for Tropical Countries. In: Ray R., Haldar C., Dwivedi A., Agarwal N., Singh J. (eds) *Photocarcinogenesis & Photoprotection*. Springer, Singapore
 7. Deepti Chopra, Shruti Goyal, **Saroj Amar**, Ankit Verma, Saumya Shukla, Sunil Kumar Patel, Sarika Yadav, Ajeet K. Srivastav, Jyoti Singh, Divya Dubey.(2021) Therapeutics Intervention of Skin Cancer in the OMICS Era. In: Dwivedi A., Tripathi A., Ray R.S., Singh A.K. (eds) Skin Cancer: Pathogenesis and Diagnosis. Springer, Singapore. <https://doi.org/10.1007/978-981-16-0364>
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8. Chopra, D., Kamar, M.D., Shukla, S., Patel, S.K., Bala, M., **Amar, Saroj.Kumar**. (2023). Sunscreens: Toxic Effects as Determined by Biomarkers. In: Patel, V.B., Preedy, V.R., Rajendram, R. (eds) Biomarkers in Toxicology. Biomarkers in Disease: Methods, Discoveries and Applications. **Springer, Cham**. https://doi.org/10.1007/978-3-031-07392-2_49

Adverse outcome pathways (AOP) – Wiki development

1. Saroj Kumar Amar and Kurt A. Gust* Inhibition of AChE and activation of CYP2E1 leading to sensory axonal peripheral neuropathy and mortality U.S. Army Engineer Research and Development Center, Environmental Laboratory, 3909 Halls Ferry Road, Vicksburg, Mississippi 39180 (<https://aopwiki.org/aops/450>)
2. **Saraj Kumar Amar** and Kurt A. Gust* Organo-Phosphate Chemicals induced inhibition of AChE leading to impaired cognitive function. U.S. Army Engineer Research and Development Center, Environmental Laboratory, 3909 Halls Ferry Road, Vicksburg, Mississippi 39180. (<https://aopwiki.org/aops/405>)

Work presented in Several National and International conferences

1. **S. K. Amar**, C. P. Gut, R. M. Styles, R. J. Johnson, D. M. Holtzapple, J. L. Stricker, S. M. McInturf, E. A. Phillips, K. L. Mummy, D. R. Mattie, M. A. Chappell, and K. A. Gust. "Effects of inhalation of neat and ethyl parathion incorporated soil on plasma acetylcholinesterase activity and dopamine levels in a rat model". Presentation in SOT annual meeting 2022.
 2. **S. K. Amar**, Keri B. Donohue, Kurt A. Gust "Sunlight-induced Generation of Cytotoxic Reactive Oxygen Species of Parathion Suggest Photo-sensitization Potential" presented for SOT annual meeting 2021 and received IVAM-SOT Award 2021 (1st Place Poster Award): (www.toxicology.org/groups/ss/IVSS/Awards.asp)
 3. **S. K. Amar**, C. P. Gut, R. M. Styles, R. J. Johnson, D. M. Holtzapple, J. L. Stricker, S. M. McInturf, E. A. Phillips, K. L. Mummy, D. R. Mattie, M. A. Chappell, and K. A. Gust. Effects of inhalation of neat and ethyl parathion incorporated soil on plasma neurotoxicity marker enzymes in a rat model. ERDC RD22 Event (April 22-27, 2022).
 4. **S. K. Amar**, Keri B. Donohue, Kurt A. Gust. ICCVAM Public Forum: May 2021: "Investigation of parathion-induced neurotoxicity in SHSY5Y cells demonstrates utility of the assay as an alternative animal model" (ntp.niehs.nih.gov/iccvam/meetings/iccvam-forum-2021/present/07_amar-508.pdf).
 5. **S. K. Amar**, C. P. GUT, S. Czyz, J. L. Stricker, S. M. McInturf, E. A. Phillips, K. L. Mummy, M. A. Chappell and K. A. Gust. Oxidative stress-mediated proinflammatory responses in rat lung during ammonia gas and combined ammonia / dust inhalation, SOT Annual meeting 2023, March 19-23, Nashville, TN, USA
 6. **Saraj K. Amar**, C P Gut, R M Styles, RJ Johnson, D. M. Holtzapple, J. L. Stricker, S. M. McInturf, E. a. Phillips, K. L. Mummy, D. R. Mattie, Mark Chappell and Kurt Gust. Molecular Evaluation of Mammalian Neurotoxicity Responses following Inhalation of Neat and Ethyl-Parathion-Incorporated Dust. Annual meeting SETAC, NA- 2022, Pittsburg, PA, USA.
 7. Saroj K Amar, Alan J Kennedy, Lee C. Moores & Kurt A Gust. Mechanistic evaluation of UV-degraded NQ toxicity increase in *Daphnia pulex*: A transcriptome sequencing approach. SETAC Europe annual meeting 2021.
 8. **Saraj Kumar Amar**, Shruti Goyal, H N Kushwaha, Divya Dubey, Ankit verma, R K Chaturvedi and Ratan Singh Ray. "Caspase 3 dependent apoptotic cell death induced by benzophenone 1 through
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- mitochondrial signaling pathway at environmental UVR.”** National conference on Ethnopharmacology and Biotechnology in Drug Development: Prospect and challenges. 14-15th November 2014. Bundelkhand University Jhansi. (**Best poster award SFE-INDIA 2014**).
9. **Saroj Kumar Amar**, Shruti Goel, Ashish dwivedi, Faiz mujtaba, Neera yadav, Ankit verma, A.B Pant and Ratan Singh Ray. “**Photosensitizing potential of Benzophenone-2 at environmental UV radiation.**” Annual STOX meeting 5-7th December 2012. CSIR- IITR Lucknow. (**Best poster award STOX-2012**).
 10. **Saroj Kumar Amar**, Shruti Goyal, Faiz mujtaba, Divya Dubey and Ratan Singh Ray. “**Oxidative stress mediated apoptosis and identification of marker proteins by Benzophenone under UV radiation.**” 37th Meeting of the American Society for Photobiology. San Diego, California. June 14-19, 2014.
 11. **Saroj Kumar Amar**, Shruti Goel, Aditya Bhushan Pant* and Ratan Singh Ray, **Role of reactive oxygen species in photosensitizing potential of benzophenone.** National seminar on reactive oxygen species: role in animal & plant, December 23-24, 2011. Lucknow university lucknow.
 12. **Saroj Kumar Amar**, Shruti Goel, Syed faiz mujtaba and Ratan Singh Ray. **Sunscreen induced DNA damage and apoptosis at ambient intensity of UVA and UVB radiation.** International conference SFRR STAR 2013. Jan 30- Feb 01. 2013. CSIR- IITR Lucknow.
 13. **Saroj Kumar Amar**, Shruti Goel, and Ratan Singh Ray. **Photosensitizing potential of sunscreen ingredients at environmental intensity of UV radiation.** Nation symposium on recent palestrae in photoscience. At B.H.U Varanasi. 3-4th September 2012.
 14. Shruti Goyal, **Saroj Kumar Amar**, Faiz mujtaba, and Ratan Singh Ray. “**Hair dye induced DNA damage and differential protein expression in Human keratinocyte under environmental UV radiation.**” 37th Meeting of the American Society for Photobiology. San Diego, California. June 14-19, 2014.
 15. Shruti Goyal, **Saroj Kumar Amar**, Divya Dubey, Jyoti Singh, Ajeet Kumar Shrivastava and Ratan Singh Ray “**Role of Reactive oxygen species in Phloxine B dye mediated apoptosis under ambient ultraviolet radiation**” international conference of radiation biology “INMAS” New Delhi "11-13th November 2014.
 16. Shruti Goyal, **Saroj Kumar Amar**, Ashish dwivedi, Deepti Chopra, S.F mujtaba , H N Kushwaha, P K Singh and Ratan Singh Ray. “**Role of Smac/DIABLO in mitochondrial dependent apoptosis by 2-amino-3- hydroxypyridine under ambient UVR exposure.**” National conference on Ethnopharmacology and Biotechnology in Drug Development: Prospect and challenges. 14-15th November 2014. Bundelkhand University Jhansi.
 17. Shruti goel, **Saroj Kumar Amar**, and Ratan sing ray. **UVR- induced phototoxicity mechanism of hair dyes in global climate change scenario.** Nation symposium on recent palestrae in photoscience. At B.H.U Varanasi. 3-4th September 2012
 18. Shruti Goel, **Saroj Kumar Amar**, Aditya Bhushan Pant* and Ratan Singh Ray, **Photo sensitizing potential of “2- amino 3- hydroxy pyridine.”** National seminar on reactive oxygen species: role in animal & plant, December 23-24, 2011. Lucknow university lucknow.
 19. Ashish dwivedi, s.f muztaba, N yadav, **Saroj kumara mar**, shruti goel. M.C panth, R.S.Ray. **Photodynamic therapy of Pfloracin at UV-R exposure: a mechanistic study** Internationalsymposium on advances and application in molecular biology in clinical research, February 21-22, 2012. K.G.M.C Lucknow.
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20. Neera Yadav, Ashish Dwivedi, S. Faiz Mujtaba, **Saroj Kumar Amar**, Shruti Goel and R.S.Ray. “**Photosensitized chlorquine caused ROS mediated phototoxicity.**” Annual STOX meeting 5-7th December 2012. CSIR- IITR Lucknow.
21. Ashish Dwivedi, S. Faiz Mujtaba, Neera Yadav, **Saroj Kumar Amar**, Shruti Goel, Ankit Verma, Mohan Chand Pant and Ratan Singh Ray “**Prulifloxacin Phototoxicity: A Mechanistic Study Using HaCaT Keratinocytes.**” Annual STOX meeting 5-7th December 2012. CSIR- IITR Lucknow.
22. Syed Faiz Mujtaba, Ashish Dwivedi, Neera Yadav, **Saroj Kumar Amar**, Shruti Goel, Ankit Verma and Ratan Singh Ray. “**UV-A induced apoptosis and DNA damaging potential of Pyrene: A mechanistic study.**” Annual STOX meeting 5-7th December 2012. CSIR- IITR Lucknow.
23. Ashish Dwivedi, Faiz mujtaba, N Yadav, H. N Kushwaha, **Saroj kumar Amar**, S K Singh, M C Pant and R S Ray. “**Photosensitized ofloxacin induced oxidative stress and DNA damage mediated apoptosis and gene expression.**” Annual STOX meeting 5-7th December 2012. CSIR- IITR Lucknow.
24. Shruti goel, **Saroj Kumar Amar**, faiz multaba and r s ray. **UVR induced phototoxicity mechanism of Paraphenylenediaamine in HUMAN keratinocyte cell line.** International conference SFRR STAR 2013. Jan 30- Feb 01. 2013. CSIR- IITR Lucknow.
25. Syed faiz mujtaba, **Saroj Kumar Amar**, Shruti goel and RS RAY. **Singlet oxygen mediated apoptosis by anthrone at ambient UV radiation. International conference SFRR STAR 2013.** Jan 30- Feb 01. 2013. CSIR- IITR Lucknow.

D. Research Support & Proposal

1. Project title "Nano-engineered UV filters and its modulatory effects on human skin under environmental UV radiation" under DST-TARE scheme, submitted to SCIENCE & ENGINEERING RESEARCH BOARD (SERB), Government of India (File Number: TAR/2018/000841).
 2. Project title “Photoprotective potential of phytochemicals against ultraviolet radiation induced Photocarcinogenesis” under DST- ECRA scheme, submitted to SCIENCE & ENGINEERING RESEARCH BOARD (SERB), Government of India (File Number: ECR/2018/001664/LS).
 3. Project title” Assessment of sunscreen induced phototoxicity to human skin at environmental UV-radiation. Under DST- Extra Mural Research Funding (Individual Centric) scheme, submitted to SCIENCE & ENGINEERING RESEARCH BOARD (SERB), Government of India (File Number: EMR/2016/000694 (Ver-1))
 4. Project title “To study the protective effect of dietary vegetable: cucurbits against skin cancer” submitted to Academic of Scientific and Innovative Research (AcSIR), as PhD course work.
 5. Project Title “Campaign for safe cosmetics in rural India” under CSIR-800 societal project to AcSIR New Delhi as PhD course work.
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E. Google scholar link <https://scholar.google.com/citations?user=KZ396SEAAAAJ&hl=en&oi=ao>

https://www.linkedin.com/in/sarojamar/	<u>Citations</u>	330
	<u>h-index</u>	11
	<u>i10-index</u>	11

F. References

1. Dr. Kurt A. Gust

Scientist & Team Leader - Environmental Genomics & Systems Biology at US Army, Engineer Research & Development Center, Vicksburg, MS, USA

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5. Dr. Ratan Singh Ray

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Thank You!

(Saroj Kumar Amar)
