

CURRICULUM VITAE

DR. SWARAN JEET SINGH FLORA

PhD, FNASc, FAEB, FABP, FSSE

DIRECTOR

National Institute of Pharmaceutical Education and Research-Raebareli
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Lucknow, U.P (India)-226 002



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EDUCATION AND CREDENTIALS:

Ph.D. (Biochemical Toxicology): Industrial Toxicology Research Centre, Lucknow.
(University of Kanpur, January 1985)

M.Sc. (Organic Chemistry): University of Kanpur securing FIRST DIVISION, 1978

Post Doctoral Training: Utah State University, Toxicology Program, USA

II. PERSONAL INFORMATION:

Date of birth and Place: March 7, 1956, Lucknow, India

Nationality: Indian

III. EXPERIENCE:

More than 35 years of research experience in conducting and guiding research in the field of Chemical Toxicology, Biochemical Pharmacology, Drug Development

A. Supervision (Ph.D. students)

- **Ph.D. degree awarded - 25 students so far**
(Biochemistry/Biotechnology/Chemistry/Zoology/ Pharmacology)
- Currently Registered for Ph.D. degree- 3
- Guide for the award of M.S./ M.D. dissertation – 6; M.Sc. dissertations – > 25

B. Research Interest and Major achievements:

- **Drug Development:** Developed first indigenous new drug 'MiADMSA' for Arsenic poisoning- The drug currently approved as **IND** (Investigational New Drug) by **Drug Controller General of India (DCGI) for Clinical Phase I trial** at Cadila Pharma, Ahmedabad
- **Toxicity of Chemicals:** Mechanism and mode of action of chemicals (heavy metals, organophosphorus, nanoparticles etc) with particular reference to toxicity of metals, organophosphorus, nanoparticles, Organ damage, Free Radical Toxicity, Apoptosis and ROS and chelation therapy
- **Preventive measures against chemical toxicity:** Chemical induced Oxidative Stress and the Role of Antioxidants; Role of Nutritional Components including alcoholism in Metal Toxicity and Chelation; Role of Adjuvants (nutritional constituents) in Metal chelation
- **Biological Monitoring for Human Metal Exposure**
- **Book published (EDITOR) - 4**
 - *Handbook on Arsenic Toxicology (Academic/ Elsevier Press), 2014*
 - *Pharmacological Perspectives of Toxic Chemicals and their Antidotes (Narosa/ Springer) 2007*
 - *Environmental Pollution: Ecology and Human Health (Narosa) 2013*
 - *Preparedness for Biological Warfare Agents (Elsevier/Academic) 2019*
- 'h' index of **'54'**; i10 index - **182**
- **Citations** of research work (Last 10 years)- **> 11148**

C. Publications:

Total Research Publications - 301 (to date)

- Research Papers – 217 (I.F 1.0 –13.81)
- Chapters/Reviews in book- 84
- Conference Abstracts- > 200

BOOKS - 4:

- "Handbook of Arsenic Toxicology", S.J.S. Flora (Editor), Elsevier/ Academic Press, 2015
- "Pharmacological Perspectives of some Toxic Chemicals and Antidotes" S.J.S. Flora and James A Romano, Eds., Springer / Narosa Publication, New Delhi, 2005
- Environmental Pollution, Ecology and Human Health, Editor G. Reddy, S.J.S. Flora, N. Basha, Narosa Publication, 2011
- Handbook on Biological Warfare Preparedness, Editor S.J.S. Flora and Vidhu Pachauri, Elsevier / Academic Press, 2020

D. Patents/ Copyright granted:

Granted - 4; Filed - 3

1. **Flora SJS**; Yadav A; Pathak U; Pachauri V and Vijayaraghavan R. Process for preparation of monoisoamyl dimercaptosuccinic acid and applications thereof. 235/DEL/2011, Date of filing: 01/02/2011, Publication Date (U/S 11A): 03/08/2012, Post Grant Journal Date (U/S 43(2)): 01/09/2017, Granted Application, Patent Number 286702, Date of Certificate Issue: 28/08/2017
2. Yadav A; **Flora SJS**; Samim M and Vijayaraghavan R. Process for preparing encapsulated curcumin nanoparticles and applications thereof. 337/DEL/2011, Date of filing: 10/02/2011, Publication Date (U/S 11A): 17/08/2012, Post Grant Journal Date (U/S 43(2)): 01/12/2017, Granted Application, Patent Number 290040, Date of Certificate Issue: 28/11/2017
3. **Flora SJS**; Yadav A and Vijayaraghavan R. Water dispersible oral nanoformulation of chelating agents encapsulated polymeric nanoparticles targeting brain for the treatment of heavy metal poisoning. 1819/DEL/2011, Date of filing: 27/06/2011, Publication Date (U/S 11A): 04/01/2013, Post Grant Journal Date (U/S 43(2)): 17/11/2017, Granted Application, Patent Number 289433, Date of Certificate Issue: 09/11/2017
4. "Handbook on First Aid Kit CBW" ASB Bhaskar, R. Vijayaraghvan, **S.J.S. Flora** and R. Bhattacharya, Copyright Registration Document n. L - 49620/2013, Government of India, Copyright Office.

Filed:

5. Ujjwal Kolhe and **S.J.S. Flora**, Novel Formulation of Lurasidone with Improved Solubility, Application # 201911006780, CBR no. 5831, Docket #16651, 2019
6. Ujjwal Kolhe, Gitanjali Pant, **S.J.S. Flora**, Novel Bedaquil Ine Formulations With Improved Solubility, Application # 201911020164, Docket # 48941, 2019
7. Ujjwal Kolhe, S.J.S. Flora, "Novel Pharmaceutical Gastroretentive Sustained Release Composition and Process of Preparation thereof" Application 201911020164, Docket # 48941, 2019

IV. AWARDS AND HONOURS:

SCIENTIFIC AWARDS:

- **KEY NOTE SPEAKER** at International Conference on METDETOX, Berlin, Germany, July 3-10, 2019
- **KEY NOTE SPEAKER** at International Conference on Trace Element, St Petersburg, Russia, July, 2017
- **"DRDO Scientist of the Year Award" 2014**
- **Awarded Fellow, National Academy of Sciences (FNASc) in Medicine 2012**
- **DR. KAILASH NATH KATJU AWARD** "Highest State Scientific Award for Scientific Excellence" in the year 2002 by the Government of M.P. (M.P. State Council of Science and Technology)
- **SHAKUNTALA AMIR CHAND AWARD** of Indian Council of Medical Research (ICMR) for the year 1994 for contribution in Clinical Therapeutic Measures in Lead Toxicity.
- **AEB HONOR** for Life Time Achievement, by Academy of Environmental Biology, 2018
- **DISTINGUISHED SCIENTIST LIFE TIME ACHIEVEMENT AWARD** of Society of Toxicology - 2012
- **LIFE TIME ACHIEVEMENT AWARD (Pharmacy)** of Academy of Biotechnology and Pharmacy – 2012
- **Life Time Achievement Award, Indian Society for Lead Awareness and Research (INSLAR),**
- **"Brig. K.M. Rao Award"** of Defence Research Development Establishment (DRDE) for the Best Paper published in Biological Sciences in the year 2003, 2007, 2008, 2009
- **Prof V.N. Sharma Prize** of Indian Pharmacological Society for the Best paper in Pharmacology – 2006
- **DRDE "BEST TECHNOLOGY AWARD"** for the development of Monoisomeric DMSA as antidote for Arsenic poisoning- 2009
- **ARCHANA GOLD MEDAL** of Academy of Environmental Biology (India)
- **GOLD MEDAL, LIFE TIME ACHIEVEMENT AWARD**, SV University

ORATIONS

- **Prof. S.B. Pandey ORATION** of Indian Pharmacological Society (IPS), 2004
- **Dr GOVIND ACHARI ORATION** of Indian Pharmacological Society (IPS) - 2010
- **Prof. R. NATH MEMORIAL ORATION**, Post Graduate Institute of Medical Education & Research, Chandigarh -2012
- **DRDO TECHNOLOGY DAY ORATION- 2009**
- **Prof. R.C. DALELA ORATION** of Academy of Environmental Biology, Nainital, 2010

FELLOWS:

- **FELLOW, NATIONAL ACADEMY OF SCIENCE (FNASc)**
- **FELLOW**, Academy of Environmental Biology (**FAEB**),
- **FELLOW**, Society of Science and Environment (**FASE**), India,
- **FELLOW**, Association of Biotechnology and Pharmacy (**FABP**),
- MEMBER, ROYAL SOCIETY OF CHEMISTRY (U.K.)

• Membership of Professional/Scientific Societies

Life Member, National Academy of Sciences
 Life Member, Nitric oxide Society of India
 Life Member, Society for Free Radicals Research
 Life member, Indian Association of Micro-nutritionists,
 Life Member of Society of Toxicology (STOX), India,
 Life Member, India Pharmacological Society (IPS),
 Life Member, Indian Academy of Environmental Biology (IAEB),
 Life Member, International Society of Applied Biology
 Life member, Society of Science and Environment, India
 Life Member and Vice President, Society of Lead Awareness and Research
 Member Advisory Board: Sophia College (Jiwaji University, Gwalior)
 Member, Research Board, IIS University, Jaipur
 M.R.S.C. Awarded Membership of Royal Society of Chemistry (U.K)

• Associate Editor/ Member, Editorial Board of Scientific Journals:

- *Chemical Research in Toxicology (ACS Publication, USA)*
- *Food and Chemical Toxicology (ELSEVIER, USA) - ASSOCIATE EDITOR*
- *ENVIRONMENTAL RESEARCH (ELSEVIER, USA)*
- *Ecotoxicology & Environmental Safety (ELSEVIER, USA)*
- *Journal of Trace Elements in Medicine and & Biology (ELSEVIER, Germany)*
- *Human and Experimental Toxicology (SAGE Publication, U.K.)*
- *Journal of Toxicology and Health (Herbert Publication, U.K.)*
- *Environmental Health & Preventive Medicine (Springer, USA),*
- *Current Traditional Medicine (Bentham Press, USA)*
- *Medicinal Chemistry (Bentham Press, USA)*
- *BMC Journal of Integrative and Alternative Medicine - Associate Editor, UK*
- *Oxidative Medicine & Cellular Longevity (Landes Biosciences, USA)*
- *ISRN Toxicology (Hindawi Publishing, USA)*
- *BioMed Research International (Hindawi Pub., USA) Impact factor 2.46*
- *Cellular & Molecular Biology – Associate Editor (France)*
- *Oxidant and Antioxidant in Medicine (Scope USA, Section Editor Pharmacology)*
- *Journal of Heavy Metal and Chelation Therapy (USA)*
- *World Journal of Pharmacology (UK)*
- *Pharmacovigilance and Drug Safety*
- *International Journal of EnviroRes (USA)*
- *Open Nitric Oxide Journal (Bentham Pub., USA)*
- *Open Journal of Pain (Bentham Pub., USA)*
- *Open Nutraceutical Journal (Bentham Pub. USA)*
- *Journal of Occupational Health (Japan),*
- *Guest Editor – Two issues Cellular and Molecular Biology (France)*
- *Polish J. Environmental Studies (Poland), Associate Editor*

- *Journal of Biochemical and Pharmacological Research (USA)*
- *Journal of Burns and Wounds (USA)*
- Indian Journal of Pharmacology (India)
- Toxicology International (India)
- Advances in Life Sciences (India)
- Subject Editor (Metal Toxicity): Journal of Environmental Biology (India)
- International Journal of Applied Biology
- Current Trends in Biotechnology and Pharmacy
- Journal of Drug Research in Ayurvedha and Sidha (JDRAS)

- **Associate Editor of International Journal**

- *Food & Chemical Toxicology (Elsevier)*
- *Polish Journal of Environmental Sciences*
- *BMC Journal of Complimentary & Intergrative Medicine*
- *Oxidatant and Antioxidant in Medical Sciences*
- *Cellular and Molecular Biology (France) – Associate Editor (Asia)*
- Journal of Cell & Tissue Research
- International Journal of Biotechnological Research
- International Journal of Pharmaceutical Research

Guest Editor - Special Issue

- **Guest Editorial-** *Chemical Research in Toxicology (An Americal Chemical Society publication- 2010 issue*
- Two special issues on “Role of Free Radical in Human Health and Diseases) of **Cellular & Molecular Biology** (France)
- Special issue on Environmental Toxicology **Indian Journal of Experimental Biology**
- Special issue on Metal Toxicity of **Journal of Environmental Biology**

INVITED LECTURES - ABROAD (last 10 years)

- Delivered more than 200 **Invited/Guest Lectures** in India and abroad. Among these lectures few prestigious lectures
- **GUEST LECTURE at NIH (NIND)**, Bethesda, Maryland, October 6, 2008
- **Guest Lecture: University of Kharkiv, Ukraine, December 2010**
- **Guest Lecture:** International Society of Dietary Supplement and Phytotherapy, Rome, Italy, April 2011
- **Guest Lecture, Boston University School of Medicine, Boston Medical Center, Department of Family Medicine, Boston, MA, October 5, 2008.**Chairman, **Scientific Sessions** (International): Int Symposium on Chelating Agents in Medicine, Pharmacology and Therapeutics, Pilsen, Czech Republic, July 7-12, 2004
- **Expert PANELIST, Round Table Meet Toxicity of Metals**, Pittsburgh, October 1-3, 2009.
- **Chairman, Symposia** on Role of Free Radicals and Antioxidants in Health & Diseases” Fourth World Congress on Cellular and Molecular Biology-2005, Poitiers, France
- **GUEST LECTURE** at the International Conference on Metal Toxicity and the Impact on Human Health, Remedies and Rationale, Pittsburgh, USA, October 1-2, 2008
- **GUEST LECTURE** at the International Conference on TOXIFICATION and the Impact on Human Health, Remedies and Rationale, Pittsburgh, USA, October 1-2, 2008
- **GUEST LECTURE** at the International Conference on Metal Toxicity and the Impact on Human Health, Remedies and Rationale, Pittsburgh, USA, October 2-4, 2008
- **PANELIST, Round Table Meet on Scientific use of Chelating Compounds in Medicine,**

- International Conference on DETOXIFICATION, Grand Rapids, MI, USA, October 4, 2009
- **KEY NOTE SPEAKER**, *16th International Symposium of Trace Elements in Man and Animals Saint Petersburg, Russia, June 26-29, 2017*
- **KEY NOTE SPEAKER**, International Conference on Metal Detoxification (METDOTOX), Berlin, Germany, June 9-13, 2019
- **Awards/Prize to students for co-authored papers**

Year	Award	Awarding Body
2001	Best Research Presentation Award at STOX- to Ashish Mehta	STOX (India)
2004	Best paper , M.P. Science Congress, to Ms Geetu Saxena	M.P. Science Congress,
2004	M.P. Young Scientist Award , Medical Sciences Ms. Geetu Saxena	M.P. State Sci & Tech
2005	GOLD MEDAL of STOX for Best Paper - Ms Geetu Saxena	STOX, India
2009	Young Scientist Award , Indian Science Congress - Deepshikha Mishra	Indian Science Congress
2008	Best Paper Award at Int. Conf Mol Mechanism of Diseases- Kapil Bhatt	DRDE, Gwalior
2009	M.P. Young Scientist Award in Environ Sci., to Ms. Deepshikha Mishra	M.P. CST, Bhopal
2009	M.P. Young Scientist Award for in Behavioural Sciences to Kapil Bhatt	MP Science Congress
2014	STOX Best Poster award - Sherry Sachdeva	Society of Toxicology
2014	Best Oral Presentation - Sherry Sachdeva	Academy of Environ Biol
2016	MP Young Scientist Award, Environmental Sci., - Shruti Agrawal	31st MP Science Congress

Administrative role:

- **Member, Drug Controller General of India, Phytomedicine Group**
- **Associate Director & Head**, Division of Pharmacology & Toxicology, Head Finance. Defence Research and Development Establishment, Gwalior 1989-2016.
- **Member, Scientific Advisory Board (Drug Development)**, CCCRAS (Department of AAYUSH, Ministry of Health and Family Welfare, Govt of India)
- **Member, Scientific Advisory Board (Pharmacology)**, National Dope Control Center, New Delhi (Ministry of Skill Development, Youth and Sports Affair, Govt of India)
- **Expert Member, Indian Council of Medical Research**, Task Force for the Mitigation of Arsenic in India
- **Member, Board of Expert Panel, Bhabha Atomic Research Center, Mumbai**
- **Member, Doctoral Committee, Indira Gandhi National Open University, New Delhi**
- **Core Member, DRDO Assessment Board**
- **Expert, Assessment and Selction Board, Central Drug Research Institute, Lucknow**
- **Head**, Division of Regulatory Toxicology, DRDE (2012- to date)
- **Head**, Division of Pharmacology & Toxicology, DRDE (2007-2012)
- **Member, Research Advisory Board**, IIS University, Jaipur
- **Executive Board Member, International Society of Dietary Supplements and Phytotherapy (ISDSP)**
- **Member, Neurobiology Task Group, Department of Science and Technology, Govt of India**

- Member Assessment Board (Scientific and technical), CSIR-Central Drug Research Institute, Lucknow
- Vice President: Academy of Environmental Biology, 2003-05; Secretary (International), Indian Pharmacological Society; Member, Ex. Comm., STOX, India; Member, Executive Committee, Indian Pharmacological Society; Organizing Secretary, 35th annual conference of IPS-2002; Organizing Secretary, International Conference on Molecular Mechanism of Diseases, Gwalior.
- Member, International Advisory Board, Fourth WORLD CONGRESS ON CELLULAR AND MOLECULAR BIOLOGY-2005, Poitiers, France, Moderator for a Symposium on “Role of Free Radicals and Antioxidants in Health & Diseases”
- Chairman, Scientific Sessions (International): Int Symposium on Chelating Agents in Medicine, Pharmacology and Therapeutics, Pilsen, Czech Republic, July 7-12, 2004
- Chairman, Symposia on Role of Free Radicals and Antioxidants in Health & Diseases” Fourth World Congress on Cellular and Molecular Biology-2005, Poitiers, France

- **Ad-hoc Editorial Board Member (Reviewer) for international journals:**

- Journal of Pharmacology & Experimental Therapeutics (USA)
- Biochemical Pharmacology (USA)
- J. Lab. Clin. Med. **(USA)**,
- Free Radical Biology & Medicine **(USA)**
- Neurotoxicology
- Molecular Neuromedicine (USA)
- Biochemical Biophysical Research Communication (USA)
- PLOS One
- BBA (Molecular and Genetic) Elsevier (USA)
- European Journal of Pharmacology **(UK)**
- Toxicological Sciences (USA)
- Medicinal Research Review **(USA)**
- Metallomics (RSC) (UK)
- Biological Trace Element Research
- CRCHEMIE (UK)
- FEBS Letters **(USA)**,
- Cardiovascular Toxicology
- Metallomics
- Chinese Journal of Integrative Medicine
- Neurological Research
- Toxicological Sciences
- Drug and Chemical Toxicology
- Chemistry and Ecology
- Chemosphere
- Cancer Prevention Research (USA)
- ISRN Toxicology
- Renal Failure (USA)
- International Journal of Developmental Neurosciences (USA)
- Cancer Cell International
- Nanomedicine
- Nanochemistry
- Proc. National Academy of Sciences
- Neurotoxicology Research
- Cell Transplantation Review (USA)
- Journal of Environmental Monitoring (USA)

- Journal of Animal Physiology and Animal Nutrition (Japan)
- American Journal of Medical Sciences (USA)
- International Journal of Experimental Pathology (USA)
- Science of Total Environment (USA)
- Cancer Prevention and Therapy (USA)
- Medical Practice and Principal (Switzerland)
- Neurotoxicology Research (USA)
- Pesticide Biochemistry & Physiology (USA)
- Alcohol & Alcoholism (USA)
- Journal of Pharmaceutical Sciences (UK)
- Journal of Postgraduate Medicine (UK)
- BMC Complementary and Alternative Medicine
- Environmental Toxicology (UK)
- Environmental Research (USA)
- Chemical Research in Toxicology (**USA**),
- Toxicological Sciences (**USA**);
- Intensive Care Medicine (**USA**);
- Pesticide Biochemistry & Physiology (**USA**),
- Pharmacology (China)
- Biochemical Pharmacology (**USA**),
- Toxicology Letters (Germany)
- Redox Report (**Australia**),
- Neurochemistry International (**USA**),
- Toxicology (**Germany**),
- Biological Trace Element Research (**USA**)
- Brain Research Bulletin (**Italy**),
- Cell Biology Toxicology (**Denmark**),
- Cell Biology Int.
- Journal of Experimental and Integrative Medicine
- Methods & Findings in Experimental & Clinical Pharmacology
- Oncology (**Switzerland**),
- Environmental Toxicology (**Japan**),
- Cell Biology International (**U.K.**)
- Arch Environ. Contam. Toxicology (**USA**),
- Medical Practice and Principles (**Switzerland**),
- Basic and Clinical Pharmacology & Toxicology (**Denmark**),
- Spectroscopic Research (**U.K.**),
- Environmental Toxicology and Pharmacology (**Netherlands**),
- Journal of Pharmaceutical Biology (Korea)
- Journal of Food Biochemistry (Germany)
- Medicinal Research Reviews (**USA**)
- Cancer Chemotherapy and Pharmacology (**U.K.**),
- Cellular and Molecular Inter. (**U.K.**),
- Lung Research (**USA**), Clinical Toxicology (**USA**),
- Food & Chemical Toxicology (**Netherlands**),
- Pharmacology, Biochemistry & Behaviour (**USA**),
- Water Research (**USA**),
- eCAM (USA)
- Toxicology & Environmental Chemistry (**Germany**),
- BMC Journal of Pharmacology (**USA**),
- BMC Journal of Neurosciences (**USA**),
- BMC Journal of Gastroenterology (USA)
- BMC Complementary & Alternate Medicine
- NUTRITION (**USA**),
- BIOMETALS (**Germany**),
- J Internal Medicine (**USA**)

- Toxicology Mechanism and Methods (**USA**),
- Polish J. Environmental Sciences (**Poland**),
- Journal of Occupational Health (**Japan**),
- Journal of Chinese Integrative Medicine
- Expert Opinion Investigative Drugs (**U.K.**),
- Pharmacogenomics (**USA**),
- J. Environ. Health Sciences (**Japan**),
- INDUSTRIAL HEALTH (Japan)
- Journal of Environmental Pathology, Toxicology and Oncology (**Norway**);
- Journal of Medical Case Reports (**UK**)
- Ecotoxicology & Environmental Safety (USA)
- J Trace Elem Med Biol (Germany) J. Environ. Biology, Indian J. Pharmacology, Indian J. Exp. Biology, Arch Medical Research (**Brazil**), Neurology India, Indian J Biochem. Biophys., J. Cell & Tissue Research,

• **Examiner**

Ph.D. examiner for the following Institutes/ universities:

- Post Graduate Institute of Medical Education and Research, Chandigarh
- University of Delhi, Delhi
- Banarus Hindu University (BHU), Varanasi
- Indian Institute of Toxicological Research (IITR), Lucknow
- Sardar Patel University, Vallabh Vidyanagar, Anand (Gujarat)
- Kanpur University, Kanpur
- Banaras Hindu University, Varansi
- Anna Malai University, Chennai
- Sher-e-Kasmir University, Srinagar
- Jamia Hamdard University, New Delhi
- Jawaharlal University, New Delh
- IIS University, Jaipur
- Awadh University, Faizabad
- SV University, Tirupati
- Dayalbagh University, Agra
- Delhi College of Pharmacy (Delhi University)
- Dr. B.R. Ambedekar University, Agra
- Panjab University, Chandigarh
- University of Lucknow, Lucknow
- University of Madras, Chennai
- University of Rajasthan, Jaipur
- Jawaharlal Nehru University (JNU), New Delhi
- University of Mumbai, Mumbai
- Central Drug Research Institute
- V.P Chest Institute, Delhi

M.Pharma / M. Phil/ M.Sc. Biochemistry/ Chemistry/ Pharmacology examiner

- Delhi College of Pharmacy (Delhi University)
- Jiwaji University, Gwalior
- M.D. University, Rohtak
- Dr. B.R. Ambedkar University, Agra
- International College of Girls (University of Rajasthan), Jaipur
- Banasthali Vidyapeeth, Rajasthan

V. EMPLOYMENT DETAILS:

- 2016 – To date Director, National Institute of Pharmaceutical Education and Research, Raebareilly
- 2010–2016 (March): Scientist 'G', Associate Director & Head, Division of Pharmacology & Toxicology, at **Defence Research & Development Establishment (DRDO, Ministry of Defence, Govt. of India)**, Gwalior.
- 2004- 2010: Scientist 'F', Joint Director & Head, Pharmacol Toxicol Div, DRDE, Gwalior
- 1999-2004: Scientist 'E' Deputy Director at DRDE, Gwalior
- 1994-99: Scientist 'D' at DRDE, Gwalior
- 1989-94: Scientist 'C' at DRDE, Gwalior,
- 1986-89: Senior Research Officer (ICMR-SRC) at Industrial Toxicology Research Centre (ITRC), Lucknow
- 1985-86: Post doctoral fellow at the Toxicology Program, **Utah State University, Logan, Utah, U.S.A.**
- 1980-85: Junior and Senior Research Fellow of ICMR at ITRC, Lucknow

VI. LIST OF RESEARCH PUBLICATIONS

1. 'Preventive Role of Trace Metals in Lead Intoxication' **S.J.S. Flora**, V.K. Jain, J.R. Behari and S.K. Tandon Toxicology Letters, 12, 51-56, 1982.
2. 'Time Dependent Protective Effects of Selenium against Cadmium Induced Nephrotoxicity and Hepatotoxicity' **S.J.S. Flora**, J.R. Behari, M. Ashquin and S.K. Tandon Chemico-Biological Interaction, 42, 345-351, 1982.
3. 'Role of Selenium in Protection against Lead Intoxication' **S.J.S. Flora**, S. Singh and S.K. Tandon Acta Pharmacologica et Toxicologica, 52, 28-32, 1983.
4. 'Vitamin B Complex in the Treatment of Cadmium Intoxication' S.K. Tandon, **S.J.S. Flora**, J.R. Behari and M. Ashquin Annals Clinical Laboratory Sciences, 14, 487-492, 1984.
5. 'Biological and Environmental Monitoring of Lead in Silver Jewellery Industry of Hupri, Kolhapur, A Comprehensive Report on 23 Subjects of suspected Lead Intoxication' **S.J.S. Flora** and S.K. Tandon Monographs, submitted to Govt of Maharashtra, India, pp 1-30, 1983.
6. 'Prevention of Lead Intoxication by Vitamin B Complex' **S.J.S. Flora**, S. Singh and S.K. Tandon Zeitschrift gesamte Hygiene 30, 409-411, 1984.
7. 'Influence of Vitamin B - Complex in Treatment of Cadmium Intoxication in young Rats' S.K. Tandon, **S.J.S. Flora**, and S. Singh. Indian J. Medical Research, 80, 444-448. 1984.
8. 'Urinary Excretion of Heavy Metals in Cement Workers' S.K. Tandon, Shashi Khandelwal, V.K. Jain and **S.J.S. Flora**. Indian J. Environmental Health, 26, 181-186, 1984.
9. 'BAL Therapy in Human Lead Poisoning' **S.J.S. Flora**, Surendra Singh and S.K. Tandon. Indian J. Medial Sciences, 39,187-191. 1985.

10. `Chelation in metal Intoxication XIV: Comparative Effects of Thiol and Amino Chelators on Lead Poisoned Rats with Normal or Damaged Kidneys' S.K. Tandon, **S.J.S. Flora** and S. Singh Toxicology & Applied Pharmacology, 79, 204-211, 1985.
11. `Chelation in Metal Intoxication XV: Influence of Dimercaptopropane Sulphonate (DMPS) on Lead Poisoned Rats with Normal or Damaged Kidneys' **S.J.S. Flora** and S.K. Tandon Industrial Health 23, 17-24, 1985.
12. `Possible Role of Nickel Induced Metallothionein (MT) in Protection against Cadmium Nephrotoxicity' Shashi Khandelwal, **S.J.S. Flora** and S.K. Tandon Z. Ges. Hygiene 31, 400-403, 1985.
13. `Chelation in metal Intoxication XVIII: Combined Effect of Thiamine and Calcium disodium Versenate on Lead Toxicity' **S.J.S. Flora**, S. Singh and S.K. Tandon Life Sciences, 38, 67-71, 1986.
14. `Influence of dietary supplementation with thiamine on lead intoxication in rats' **S.J.S. Flora** and R.P. Sharma Biological Trace Element Research, 10, 137-144, 1986.
15. `Chelation in metal Intoxication XVII: Chelation in Lead Intoxication during vitamin B complex deficiency' S.K. Tandon and **S.J.S. Flora** Bull. Environ. Contam. Toxicol. 37, 317-325, 1986.
16. `Chelation in Metal Intoxication XXII: Effect of N- (2- Mercaptopropionyl) Glycine on Lead or Lead and Ethanol Intoxicated Rats' S.K. Tandon and **S.J.S. Flora** Biochemistry Int., 12, 963-968, 1986
17. `Preventive and Therapeutic Effects of Thiamine, Ascorbic Acid and their Combination in Lead Intoxication' **S.J.S. Flora** and S.K. Tandon Acta Pharmacol. et Toxicol. 58, 374-378, 1986.
18. `Chelation in metal Intoxication XXIV: Influence of various components of vitamin B complex on the Therapeutic Efficacy of Calcium Disodium Versenate in Lead Intoxication' S.K. Tandon, **S.J.S. Flora** and S. Singh Pharmacology & Toxicology 60, 62-65, 1987.
19. `Effect of Combined Exposure to Lead and Ethanol on some Biochemical Indices in Rats' **S.J.S. Flora** and S.K. Tandon Biochemical Pharmacology 36, 537-541, 1987.
20. `Influence of Pyridoxine (Vitamin B₆) on lead Intoxication in Rats' S.K. Tandon, **S.J.S. Flora** and S. Singh Industrial Health 25, 93-96, 1987.
21. `Influence of dietary deficiency of nicotinamide on Lead Toxicity in Young Rats' **S.J.S. Flora** and S.K. Tandon Biol. Trace Elem. Res., 14, 143-152, 1987.
22. `Persistence of vanadium compounds in Lungs after intratracheal instillation in rats' R.P. Sharma, **S.J.S. Flora**, D.B. Drown and S.G. Oberg Toxicology & Industrial Health 3, 321-329, 1987.
23. `Effect of combined exposure to cadmium and ethanol on regional Brain Biogenic Amines levels in the rat' **S.J.S. Flora** and S.K. Tandon Biochemistry Inter., 15, 863-871, 1987.
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VII. PAPERS PRESENTED IN SEMINAR/CONFERENCES/SYMPOSIUM

1. 'Effect of Thiol Chelators on Lead Poisoned Rats with Normal or Damaged Kidneys' **S.J.S. Flora**, Jai Raj Behari, Surendra Singh and S.K. Tandon 50th Annual Meeting of Biological Chemists, Baroda, India. Nov. 18-20, 1981.

2. `Amelioration by Polyaminocarboxylic Acids of Experimental Lead Intoxication in Rats with Normal or Damaged Kidneys' S.K. Tandon, **S.J.S. Flora**, Surendra Singh and Jai Raj Behari, 2nd Annual Meeting of Society of Toxicology (India), Lucknow, India, Nov. 6-7, 1981.
3. `Role of Selenium in Protection of Nephrotoxicity and Hepatotoxicity of Cadmium' Jai Raj Behari, **S.J.S. Flora**, and S.K. Tandon. International Conference on Heavy Metals in the Environment, Amsterdam, Netherlands, Sept. 14-16, 1983.
4. `Amelioration of Lead Intoxication in Rats with Normal or Damaged Kidneys by Thiol Chelators' S.K. Tandon, **S.J.S. Flora**, Jai Raj Behari and S. Singh, 2nd Asian Pacific Congress of Clinical Biochemistry, Singapore, Sept. 19-24, 1982.
5. `Protective Role of Selenium in Lead Intoxication' **S.J.S. Flora**, J.R. Behari, and S.K. Tandon, 51st Annual Meeting of Society of Biological Chemists (India), Chandigarh, Nov. 18-20, 1983.
6. `Effect of Vitamin Deficiency (B Complex) on Lead Induced Alterations in Brain Biogenic Amines` S.K. Tandon and **S.J.S. Flora**, National Conference of Neurosciences Society of India, Aligarh, India, Feb. 5-6, 1983.
7. `Comparative Efficacy of Amino and Thiol Chelators in Lead Poisoned Rats with Normal and Abnormal Renal Functions` S.K. Tandon and **S.J.S. Flora**, 2nd International Conference on the Clinical Chemistry and Chemical Toxicology of Heavy Metals, Montreal, Canada, July 19-22, 1983.
8. `Protection of Cadmium Nephro and Hepato Toxicity by Vitamin B complex' **S.J.S. Flora**, and S.K. Tandon, International Conference on HEAVY METALS IN THE ENVIRONMENT, Heidelberg, West Germany, Sept. 6-9, 1983.
9. `Vitamin B Complex in Protection against Lead Intoxication' **S.J.S. Flora**, Surendra Singh, and S.K. Tandon, Society of Toxicology, India 3rd Annual Conference, Poona, Dec. 20-22, 1983.
10. `Influence of Chelating Agents on Lead Toxicity in Vitamin Deficient Developing Rats' **S.J.S. Flora**, and S.K. Tandon, ITRC-IBRO symposium on Neurotoxic substances and their impact on Human Health, and 3rd Scientific meeting of the Indian Academy of Neurosciences, Lucknow, India, Feb. 4-5, 1984.
11. `Role of Nickel Induced Renal Metallothionein in Protection against Cadmium Nephrotoxicity' Shashi Khandelwal, **S.J.S. Flora** and S.K. Tandon, Third International Conference on Nickel Metabolism and Toxicology, Paris, France, Sept, 9-11, 1984.
12. `Biological and Environmental Monitoring of Lead in Silver Jewellery Industry' **S.J.S. Flora** and S.K.Tandon, XXI Congress on Occupational Health, Dublin, Ireland, Sept.9-14, 1984.
13. `Effect of Dimercaptopropane Sulphonate (DMPS) on Lead Intoxicated Rats with Normal or Abnormal Renal Functions' **S.J.S. Flora** and S.K. Tandon, 54th Annual Session of National Academy of Sciences, Madurai, India, Oct. 11-13, 1984.
14. `Combined Effects of Calcium Versenate and Vitamin B1 on Lead Intoxication' S.K. Tandon, **S.J.S. Flora** and S. Singh, Vth Annual Conference of the Society of Toxicology (India), Lucknow, Nov. 1-3, 1985.
15. `Alteration of Biochemical Effects Associated with Lead Intoxication in Rats by Dietary Supplementation of Thiamine' S.J.S **Flora**, and R.P. Sharma, Society of Toxicology, New Orleans, LA, U.S.A., March, 3-7, 1986.

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38. 'Neurotoxicity of Lead' **S.J.S. Flora**, SPECIAL INVITED TALK at Colloquium held to honour Prof. S.S. Parmar, a renowned Neurotoxicologist at ITRC, Lucknow, Jan. 25-27, 1994
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48. 'Treatment of Arsenic Poisoning: Some Recent Observations' **S.J.S. Flora** and Neelima Tripathi, **an invited Lecture** at 30th Annual Conference of Indian Pharmacological Society, Jammu, Nov. 11-13, 1997.
49. 'Combined administration of DMSA and calcium disodium EDTA – a better diagnostic and treatment protocol for lead poisoning' **S.J.S. Flora**, 31st Annual Conference of Indian Pharmacological Society, Lucknow, December 18-20, 1998.
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53. 'Arsenic induced biochemical alterations and their reversibility following combined chelation therapy with N-acetylcysteine and succimer in rats' **S.J.S. Flora**, International Congress on Frontiers in Pharmacology & Therapeutics in 21st Century. New Delhi, Dec. 1-4, 1999.
54. 'Dose dependent protective value of selenium against gallium arsenide toxicity in rats' G.M. Kannan and **S.J.S. Flora**, 18th Annual Conference of Society of Toxicology, Nammakal, Nov. 11-13, 1999.
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63. 'Chronic Arsenic Poisoning: Do We Have a Treatment?' **S.J.S. Flora**, An **INVITED LECTURE** at the 35th Annual Conf. of Indian Pharmacology Society, Gwalior, November 26-29, 2002
64. 'Protective Effects of Zinc and Ascorbic acid either individually or in combination against aluminum intoxication in Rats' Kiran Satsangi, K.K. Dua and **S.J.S. Flora**, 35th Annual Conf. of Indian Pharmacology Society, Gwalior, November 26-29, 2002
65. 'Aluminum induced oxidative stress in rat brain and its response to combined administration of citric acid and HEDTA' Kiran Satsangi and **S.J.S. Flora**, 35th Annual Conf. of Indian Pharmacology Society, Gwalior, November 26-29, 2002
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71. "Protective Value of Simultaneous Administration of Selenium in Arsenic Intoxication in Rats" **Manoj Modi**, Smrati Bhaduria, GBKS Prasad and **S.J.S. Flora**, 22nd Annual Conference of Society of Toxicology, India, Madras veterinary college, Chennai, November 22-24, 2003
72. "Combined administration of succimers and antioxidant for the treatment of chronic arsenic poisoning in rats" G.M. Kannan and **S.J.S. Flora**, 22nd Annual Conference of Society of Toxicology, India, Madras veterinary college, Chennai, November 22-24, 2003
73. Arsenic induced Oxidative Stress and other Toxic Effects and their Protection by *Aloe vera* in Male Rats, **Richa** and **S.J.S. Flora**, International Congress on Molecular Toxicology and Environmental Health, ITRC, Lucknow, November 5-8, 2003
74. Lead induced Oxidative Stress and its Response to Combined Administration of Taurine and DMSA in Male Rats, **Smarati Bhadauria**, Manisha Pande and **S.J.S. Flora**, Internat. Congress on Molecular Toxicology and Environmental Health, ITRC, Lucknow, November 5-8, 2003
75. Combined Administration of an Antioxidant and a Chelating Agent for the treatment of chronic lead poisoning in Rats, **Geetu Saxena** and **S.J.S. Flora**, International Congress on Molecular Toxicology and Environmental Health, ITRC, Lucknow, November 5-8, 2003.

76. "Health Hazards Associated With the Use of Toxic Metals in Semiconductor Industries including Therapeutic Measures" **S.J.S. Flora**, An **INVITED LECTURE** at the International Congress on Molecular Toxicology and Environmental Health, ITRC, Lucknow, November 5-8, 2003
77. "Problem and Possible Solution for the Treatment of Metal Poisoning" **S.J.S Flora**, A **GUEST LECTURE**, Indian Veterinary Research Institute, Izzatnagar, November 20, 2003
78. "Problems and Possible Solution to the Treatment of Chronic Arsenic Poisoning" S.J.S. Flora, **INVITED LECTURE** at 37th Annual Conference of Indian Pharmacological Society, VP Chest Institute, Delhi, December 5-7, 2003.
79. "Possible Biochemical and Physiological changes in Rats following repeated Administration of Monoisomyl DMSA, a new Thiol Antidote for Arsenic, S.N. Dube, Ashish Mehta and S.J.S. Flora, at 37th Annual Conference of Indian Pharmacological Society, VP Chest Institute, Delhi, December 5-7, 2003.
80. "Combination Therapy: A New and Novel Approach to the Treatment of Metal Poisoning" **INVITED LECTURE** at the International Symposium on Recent Advances in Pharmacology, AIIMS, New Delhi, January 7-8, 2004.
81. "Lead Induced Biochemical Alterations and Their Response to Chelation Therapy" Geetu Saxena and S.J.S. Flora, International Symposium on Recent Advances in Pharmacology, AIIMS, New Delhi, January 7-8, 2004.
82. "Lead induced Oxidative Stress and its Response to Combined Administration of Taurine and DMSA in Male Rats" Smrati Bhadauria and S.J.S. Flora, , International Symposium on Recent Advances in Pharmacology, AIIMS, New Delhi, January 7-8, 2004.
83. "Chronic Arsenic Poisoning and Associated Biochemical and Clinical Alterations: Do We Have an Effective Therapy? **S.J.S. Flora**, an **INVITED LECTURE** at the 30th Annual Conference Association of Clinical Biochemists of India and 50th Year of Dept. of Neurochemistry, NIMHANS, January 19-22, 2004 at NIMHANS, Bangalore
84. "Chronic Arsenic Exposure and Associated Health Hazards: Do We Have an Effective Therapy? **S.J.S. Flora**, **INVITED LECTURE** at National Seminar on Environmental Management, Mumbai, Feb. 28-29, 2004.
85. "Combination Treatment: A new approach to the Treatment of Chronic Arsenic Poisoning" S.J.S. Flora and K. Sekhar, **INVITED LECTURE**, International Symposium on Chelating Agents in Medicine, Pharmacology and Therapeutics, Pilsen, Czech Republic, July 8-11, 2004.
86. "Administration of Thiol Chelators for the Reversal of Arsenic Induced Blood and Brain oxidative stress in Male Rats" Smrati Bhadauria, R.K. Dhakad¹ and S.J.S. Flora, 23rd Annual Conference of Society of Toxicology, Trivandrum, October 28-30, 2004.
87. "Concomitant Administration of Zinc, Copper and Selenium Protects Arsenic Intoxication in Rats" Manoj Modi, Richa Gupta, G.B.K.S. Prasad¹ and S.J.S. Flora, 23rd Annual Conference of Society of Toxicology, Trivandrum, October 28-30, 2004.
88. "Combined Administration of Taurine and MiADMSA in the Treatment of Chronic Arsenic Poisoning in Rats" G.M. Kannan and S.J.S. Flora, 23rd Annual Conference of Society of Toxicology, Trivandrum, October 28-30, 2004
89. "Therapeutic Efficacy of few DMSA analogues in mobilization of lead and tissue oxidative stress in rats" Geetu Saxena and **SJS Flora**, M.P. Science Congress, Bhopal, December 26-27, 2004

90. "Problems and Possible Solutions for the Treatment of Chronic Arsenic Poisoning" **S.J.S. Flora, INVITED LECTURE**, 2nd International Conference on Recent Advances in Biomedical and Therapeutic Sciences' Bundelkhand University, January 6-8, 2005
91. "Metal Induced Oxidative Stress and the Role of Antioxidant in the Chelation Therapy" **S.J.S. Flora, INVITED LECTURE**, International Conference of Society of Free Radical Research, Bangalore, January 10-12, 2005.
92. Chronic Arsenic Poisoning: Do We Have a Safe, Effective and Specific Treatment? **S.J.S. Flora Prof. SB Pandey Oration**, 37th Annual Conference of Indian Pharmacological Society, January 14-16, 2005.
93. "Biochemical and Physiological Alterations following Exposure to Gallium Arsenide" S.N. Dube and S.J.S. Flora, 37th Annual Conference of Indian Pharmacological Society, January 14-16, 2005.
94. "Chronic Arsenic Poisoning: Do We Have an Effective Therapy?" **S.J.S. Flora, Invited Lecture**, National Seminar On Arsenic And Fluoride Contamination In Groundwater, February 8-9, 2005
95. "Fruit Extracts of *Hippophae Rhamnoides* Protects Arsenic Toxicity in Mice", **Richa Gupta** And S.J.S. Flora, 7th Annual Conference Of Society Of Science And Environment, Udaipur, September 17-18, 2005
96. "Zinc and N-Acetylcysteine Co-Administration in Protection of Arsenic Toxicity in Rats" Manoj Modi and S.J.S. Flora, National Seminar Arsenic and Fluoride Contamination in Groundwater, February 8-9, 2005.
97. "Combined Administration of Calcium Disodium EDTA with a Thiol Chelator Protects Lead Induced Oxidative Stress and Hematological Alterations in Rats" **Geetu Saxena**, S.J.S. Flora, 4th World Congress on Cellular and Molecular Biology, October 7-12, 2005, Poitiers, France
98. Beneficial Effects of Combined Administration of Taurine and Meso 2,3 -dimercaptosuccinic acid in the Treatment of Chronic Lead Intoxication in Rats, **Manisha Pande**, S.J.S. Flora, 4th World Congress on Cellular and Molecular Biology, October 7-12, 2005, Poitiers, France
99. "Metal Induced Oxidative Stress and the Role of Antioxidant in the Chelation Therapy", **S.J.S Flora, Invited Lecture**, 4th World Congress On Cellular And Molecular Biology, October 7-12, 2005, Poitiers, France
100. "Combined Administration of Thiol Chelators and *Centella Asiatica* on Lead Induced Changes in Brain Biogenic Amines and Heme- Biosynthesis In Rats, **Geetu Saxena, Flora S.J.S.**, International Conference on Toxicology, Environmental and Occupational Health, Lucknow, November 14-17, 2005
101. Protective Efficacy of Seed Powder of *Moringa Olifera* against Arsenic Toxicity, **Richa Gupta, Flora S.J.S.** International Conference on Toxicology, Environmental and Occupational Health, Lucknow, November 14-17, 2005
102. "Chelating agents for Metal Toxicity: Problems and Solutions" **S.J.S. Flora, Invited Lecture** at International Workshop on Adverse Drug reaction Monitoring and 5th Annual Conference of Pharmacovigilance, Ahmedabad, November 11-13, 2005
103. "Problems and Possible Solutions for the Treatment of Chronic Arsenic Poisoning" **S.J.S Flora, Guest Lecture** at the Third Workshop on Drug Discovery and Development in New Millenium, NIPER, Chandigarh, February 21-24, 2006.

104. "Management of Lead Poisoning: Challenges and Possible Solution" **S.J.S. Flora, Guest Lecture** at the ICMR sponsored Workshop on Lead exposure in children and adults in India: Sources, evaluation, Prevention and Treatment, March 12, 2006, Bangalore, India
105. "Strategies for Safe, Effective and Specific Treatment for Chronic Arsenic Poisoning" S.J.S. Flora, **GUEST LECTURE**, International Conference on Toxicology, Toxicogenomics and Occupational Health (ICTTOH), Gwalior, October 10-12, 2006.
106. "Tissue oxidative stress following combined exposure to sodium arsenite and sodium Fluoride in male mice" Megha Mittal, S.J.S. Flora, International Conference On Toxicology, Toxicogenomics And Occupational Health (ICTTOH), Gwalior, October 10-12, 2006.
107. "Co- Administration of DMSA and its monoesters in the recovery of arsenic induced oxidative stress post chronic exposure in guinea pigs" Deepshikha Mishra, S.J.S. FLORA, International Conference On Toxicology, Toxicogenomics And Occupational Health (ICTTOH), Gwalior, October 10-12, 2006.
108. "Herbal remediation for the toxicity of arsenic" **S.J.S. Flora, INVITED LECTURE** at the CEP Course on Herbs for Armed Forces, INMAS, Delhi, November 1, 2006.
109. "Arsenic poisoning: threat and management" **S.J.S. Flora, GUEST LECTURE** at the 6th Annual Conference of ISVPT, Patna, November 23-25, 2006.
110. "Preventive and therapeutic measures for chronic lead poisoning" **S.J.S. Flora, INVITED LECTURE**, 33rd ACBION – 2006, AFMC Pune, November 26, 2006.
111. "Combination therapy with two chelators: a novel approach for the treatment of metal toxicity" **S.J.S. Flora, INVITED LECTURE** at 39th Annual Conference of IPS, Jaipur, December 21-23, 2006
112. "Beneficial effect of antioxidant supplementation during chelation in the recovery of metal induced oxidative stress" S.J.S Flora INVITED Lecture, International Conference on Free Radicals on Free Radicals in Clinical and Laboratory Medicine & SFRR-India Satellite Meeting, Kochi, January 4-5, 2007.
113. "Toxicity of heavy metals and normal approach for mitigation" INVITED LECTUE at the Symposium on awareness, preparedness and mitigation of exposure to domestic and industrial chemicals, August 30-31, 2007
114. "Chronic lead poisoning: threat and management" S.J.S. Flora, INVITED LECTURE Workshop on LEAD TOXICITY & ITS IMPLICATION in adults and children. Hyderabad, April 6, 2007.
115. "Safety and toxicity studies of herbal drugs" S.J.S. Flora, **Guest Lecture** at Training Workshop on Drug Standardization and Quality Assurance, CCRAS, New Delhi, June 15-16, 2007
116. "Beneficial effects of Quercetin administration during chelation of arsenic in Mouse" *Deepshikha Mishra* and S.J.S. Flora XXVII Annual Conference of Society of Toxicology, India, Veterinary College, Hebbal Bangalore, October 6-12, 2007
117. "Arsenic and Fluoride induced Oxidative Stress and Protective Effects of Vitamin E in Male Mice" *Megha Mittal* and S.J.S. Flora XXVII Annual Conference of Society of Toxicology, India, Veterinary College, Hebbal Bangalore, October 6-12, 2007

118. "Co-administration of Gossypin Protects Rats from Lead induced Oxidative Stress" *Pratibha Gautam* and S.J.S. Flora XXVII Annual Conference of Society of Toxicology, India, Veterinary College, Hebbal Bangalore, October 6-12, 2007
119. "Protective Value of Zinc and Iron in Gallium Arsenide Toxicity in Rats" *Kapil Bhatt* and S.J.S. Flora XXVII Annual Conference of Society of Toxicology, India, Veterinary College, Hebbal Bangalore, October 6-12, 2007.
120. "Toxicity of heavy metals and normal approach for mitigation" Invited Lecture, First annual convention of association of biotechnology and pharmacy, & National seminar on pharmacy and biotechnology prospects and perspectives, Guntur, December 6-7, 2007.
121. "Herbal remediation of heavy metal toxicity" **GUEST LECTURE** at the CEP on phytochemistry DIPAS, New Delhi, 10-14 Dec, 2007
122. "Chronic Arsenic Poisoning: A Growing Environmental Health Problem and Search for an Effective Treatment" S.J.S. Flora, **INVITED LECTURE**, International Conference on Environmental Research, Bhopal, December 28-30, 2007.
123. Arsenic induced Renal and Brain Oxidative Stress and their Response to Combined Administration of DMSA and its Analogue in Guinea Pigs" Rekha Dhanwani, Deepshikha Mishra, and S.J.S. Flora SFRR Satellite Meeting – India, AIIMS, New Delhi, Feb. 11-12, 2008
124. Beneficial effects of gossypin against experimental acute lead poisoning during co-administration in rats" *Pratibha Gautam* and S.J.S. Flora SFRR Satellite Meeting – India, AIIMS, New Delhi, Feb. 11-12, 2008.
125. "Treatment for Chronic Arsenic Poisoning in India: Challenges and Possible Solutions S.J.S. Flora, **INVITED LECTURE**, *Third and Final Industry - Academia Meet "MEDBIO – 2008, Bhopal February 14-16, 2008.*
126. "Chemistry and Creation of new Chelating Agents – From the Laboratory to the Human" **S.J.S. Flora, GUEST LECTURE** at the International Conference on Metal Toxicity and the Impact on Human Health, Remedies and Rationale, Pittsburgh, USA, October 1-2, 2008
127. "Heavy metal induced oxidative stress: Does Chelation have any beneficial role" S.J.S. Flora, **GUEST LECTURE**, International Conference on Molecular Mechanism of Diseases, December 15-16, 2008.
128. "Arsenicals as Chemical Warfare Agents" **S.J.S. Flora, INVITED LECTURE** International Conference on Translational Pharmacology & 41ST Annual Conference on Indian Pharmacological Society, AIIMS, New Delhi, December 18-20, 2008
129. "Recent Developments in the Treatment for Heavy Metal Toxicity" **S.J.S. Flora, GUEST LECTURE**, Recent Trends in Environmental Toxicology & Biotechnological Approach to conserve Environment, **S.J.S. Flora**, Jaipur, January 30-31, 2009.
130. "Heavy metals induced oxidative stress and the role of herbal antioxidant in the chelation therapy" S.J.S. Flora, **INVITED LECTURE**, Annual Conference on Free Radical Research, KGMC, Lucknow, March 17-19, 2009
131. "Combination Treatment: A New Approach to the Treatment of Chronic Arsenic Intoxication" **S.J.S. Flora, INVITED LECTURE**, XXXIV Annual Conference of Environmental Mutagen Society of India at Magadh University, Gaya, March 15-17, 2009.

132. "Arsenic Poisoning in India: Challenges and Possible Solutions" **S.J.S Flora, GUEST LECTURE**, Int. Symp. On Environmental Pollution, Ecology & Human Health, Tirupati, July 25-27, 2009
133. "Metal Poisoning: Threat and management" **S.J.S. Flora, Invited Lecture** at ICMT Sponsored, Al Ameen Medical College, Bijapur, Karnataka, October 4-6, 2009.
134. "Combined exposure to lead and ethanol potentiates lead induced oxidative stress and apoptosis in rats" *Pramod Kushwaha, Pratibha Gautam, S.J.S. Flora*, International Symp. On Environmental Pollution, Ecology & Human Health, Tirupati, July 25-27, 2009
135. Co-Administration of Antioxidants Prevent Gallium Arsenide Toxicity in Rats" *Harimohan Swarnkar, Kapil Bhatt, S.J.S. Flora*, International Symp on Environmental Pollution, Ecology & Human Health, Tirupati, July 25-27, 2009
136. "Chemicals as warfare agents" **S.J.S. Flora, GUEST LECTURE** at Bansthali Vidyapeeth, Rajasthan, March 8, 2009.
137. "Chronic Arsenic Poisoning in India: A Growing Environmental Health Problem and our Search for an Antidote" S.J.S. Flora, INVITED LECTURE, at IPS College during Continuing education Program of UGC. October 6, 2009
138. "Arsenic – the toxic stepchild?" **S.J.S. Flora INVITED LECTURE-I**, Advanced Course in Metal Toxicity. The Impact on Human Health, Remedies and Rationale, Part II, The Use by Terrorists of Compounds with Chelation Remedies, International College of Integrative Medicine, Amway Grand Plaza Hotel, Grand Rapids, MI, USA, October 2-3, 2009
139. Arsenical War Gasses and their antidotes. S.J.S. Flora, **INVITED LECTURE-II**, Advanced Course in Metal Toxicity. The Impact on Human Health, Remedies and Rationale, Part II, The Use by Terrorists of Compounds with Chelation Remedies, International College of Integrative Medicine, Amway Grand Plaza Hotel, Grand Rapids, MI, USA, October 2-3, 2009
140. "Combination Therapy" S.J.S. Flora, **Panelist, Round Table Meet** on Scientific use of Chelating Compounds in Medicine, International Conference on DETOXIFICATION, Grand Rapids, MI, USA, October 4, 2009
141. "Preclinical studies with Monoisoamyl DMSA: A ray of hope for victims of Chronic Arsenic Poisoning in India" S.J.S. Flora, **GUEST LECTURE**, 29th Society of Toxicology Conference at Hyderabad, November 5-7, 2009
142. "Co-exposure to lead and ethanol leads to brain apoptosis and neurobehavioral changes in rats" Pratibha Gautam and **S.J.S. Flora**, 29th Society of Toxicology Conference at Hyderabad, November 5-7, 2009
143. Combined exposure to Dichlorvos and Monocrotophos on some biochemical variables in rats" Nidhi Dwivedi, Yang Chen Bhutia and **S.J.S. Flora**, 29th Society of Toxicology Conference at Hyderabad, November 5-7, 2009
144. Curcumin Protects Dichlorvos Induced Toxic Effects in Rats" *Preeti Yadav, K.K. Kaul¹, S.C. Pant, and S.J.S. Flora*, Curcumin Protects Dichlorvos Induced Toxic Effects in Rats, *Preeti Yadav, S.J.S. Flora*, 29th Society of Toxicology Conference at Hyderabad, November 5-7, 2009
145. "Neuronal apoptosis and behavioral alterations in rats orally exposed to gallium arsenide" Kapil Bhatt and **S.J.S. Flora**, 5th World Congress on Cellular and Molecular Biology, to be held at the Devi Ahilya University, Indore, India, November 2-6, 2009
146. "Combined Efficacy of MiADMSA and *Spirulina maxima* against arsenic induced oxidative stress

- in guinea pigs" Archana Kulshrestha and **S.J.S. Flora**, 5th World Congress on Cellular and Molecular Biology), to be held at the Devi Ahilya University, Indore, India, November 2-6, 2009
147. "Therapeutic value of silymarin and naringenin against chronic arsenic toxicity in rats" Anshu Jain and S.J.S. Flora, 5th World Congress on Cellular and Molecular Biology), to be held at the Devi Ahilya University, Indore, India, November 2-6, 2009
 148. "Silymarin and Quercetin Administration Abrogates the Fluoride Induced Neural and Renal Toxicity in Rats" Swapnila Chouhan and **S.J.S. Flora**, 5th World Congress on Cellular and Molecular Biology), to be held at the Devi Ahilya University, Indore, India, November 2-6, 2009
 149. "Problem and solution with the treatment of arsenic poisoning" **S.J.S. Flora**, INVITED LECTURE, International Seminar on Biotechnology and Health, ITM Universe, Gwalior, March 19-20, 2010
 150. "Chronic Arsenic Poisoning: A Growing Environmental Health Problem and our Search for an Antidote" S.J.S. Flora, international seminar on Bio diversity and aquatic toxicology, INVITED LECTURE, Vijyawada, India February 12-14, 2011
 151. "Combined exposure to arsenic and organophosphorus in rats " Nidhi Dwivedi and **S.J.S. Flora**, international seminar on Bio diversity and aquatic toxicology, February 12-14, 2011
 152. "Clinical therapeutic measures for arsenic poisoning: MiADMSA, the future choice" **S.J.S. Flora**, Prof. R. Nath Oration, PGIMER, Chandigarh, October 17, 2012
 153. "Monoisoamyl DMSA: A new drug and ray of hope for Arsenic victim" S.J.S. Flora, The XXXII Annual Meeting of Society of Toxicology (STOX), India & International Symposium on New Frontiers in Toxicology December 05 - 07, 2012
 154. "Mechanisms of combined arsenic and fluoride toxicity: DNA damage, protein Interaction and oxidative stress" Vidhu Pachauri and S.J.S. Flora, The XXXIII Annual Meeting of Society of Toxicology (STOX), India, Jabalpur, December 15 - 17, 2012
 155. "" Efficacy of antioxidant supplementation in reducing sodium tungstate induced oxidative stress in male rats" Sherry Sachdeva, S.J.S Flora, XXXIII Annual Conference of Society of Toxicology, Lucknow, Oct. 23-25, 2013
 156. "Monoisoamyl DMSA, a new drug for arsenic" **Swaran J.S. Flora**, Special Lecture, XXXIII Annual Conference of Society of Toxicology, Oct. 23-25, 2013
 157. Does chelation therapy useful in metal induced neurotoxic effects? **S.J.S. Flora**, National Academy of Sciences, Allahabad, October 12-15, 2014
 158. "Recent advances in heavy metal chelation therapy and recommendations" **S.J.S. Flora**, Invited Lecture at Bundelkhand University, September 9, 2015
 159. "MiADMSA: An arsenic antidote: Journey from lab to clinic" **S.J.S. Flora**, Invited Lecture, International Conference and 9th Annual Session of Association of Biotechnology and Pharmacy, Vijayawada, December 14-16, 2015,
 160. " Treatment for Arsenic" **S.J.S. Flora**, National Conference on Environment, Invertis University, Bareilly, October 2016
 161. "Chelation of Metals" **S.J.S. Flora**, Invited Key Note Speaker, 16th International Conference on Trace Elements and Medicine, St Petersburg, Russia, June 24-26, 2017
 162. "MiADMSA: A new chelating agent for the treatment of arsenic" **S.J.S. Flora**, Invited Key Note

VIII. LIST OF PAPERS CITED IN THE SUBJECT LITERATURE IN LAST 10 YEARS

- 1. *SJS Flora et al., Chem. Biol. Inter. 42, 345, 1982***
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- 2. *SJS Flora et al, Toxicol Lett, 13, 51, 1982***
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- 3. *SJS Flora et al, Acta Pharmacol et Toxicol 58,28, 1983.***
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- 4. *SJS Flora et al, In HEAVY METALS IN ENVIRON, 1, 626, 1983.***
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- 5. *SK Tandon, SJS Flora, Ind. J. Med. Res., 80, 444, 1984***
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- 6. *SJS Flora et al, Ann. Clin Lab Sci 14, 487, 1984.***
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- 7. *SJS Flora et al., Z gesamte Hyg. 30, 409, 1984.***

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8. ***SK Tandon, SJS Flora, Toxicol. Appl. Pharmacol., 79, 204, 1985***
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 9. ***SJS Flora et al., Indust. Health, 23, 17, 1985***
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 10. ***SJS Flora & SK Tandon, Acta Pharmacol Toxicol, 58, 374, 1986.***
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- 14. *SJS Flora and SK Tandon, Ind. J. Physiol. Pharmacol., 31, 267-272, 1987.***
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- 15. *SJS Flora et al Pharmacol Toxicol, 60, 62, 1987.***
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