

CURRICULUM VITAE

Dr. S. Saravanadevi

M.Sc. Ph.D.

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Date of Birth : April 3, 1968

Sex (M/F): Female

I) Educational Qualification

Sr. No.	Institution Place	Degree Awarded	Year	Field of study
1	Nagpur University, Nagpur, India	Ph.D.	2002	Bio-chemistry
2	Madras University, India	M.Sc.	1991	Biomedical Genetics

Doctoral Degree:

Genotoxicity of soil contaminated with toxic anthropogenic chemicals and wastes and of the leachates generated from the selected industrial hazardous wastes

Post Doctoral Studies (March - September 2006):

Molecular epidemiology (Center for Toxicology, Rudolf Boem Institute of Pharmacology and Toxicology, Leipzig University, Leipzig, Germany, Funded by DST under BOYSCSAT fellowship)

II) Employment Details

S. No.	Institution/Place	Position	From (Date)	To (date)
1	CSIR-National Environmental Engineering Research Institute	Sr. Principal Scientist	11/05/2007	Till Date
2	CSIR-National Environmental Engineering Research Institute	Principal Scientist	11/05/2007	10/05/2007
3	CSIR-National Environmental Engineering Research Institute	Scientist IV (1)	11/05/1994	10/05/1999
4	CSIR-National Environmental Engineering Research Institute	Scientist IV (2)	11/05/1999	10/05/2003
5	CSIR-National Environmental Engineering Research Institute	Scientist IV (3)	11/05/2003	10/05/2007

III) Honors/Awards :

	No.	Description
A) International	2	- Awarded BOYSCAST Fellowship to visit Germany for a period of 6 Months (March 2006 – September 2006) - Selected by the Association for Overseas Technical Scholarship, Tokyo, Japan to participate in the Training Course on “Industry and Environmental Protection for India” Organized Jointly by Association for Overseas Technical Scholarship (AOTS) and New Energy Development Organization (NEDO) Tokyo, Japan during October 30 to November 17, 2000
B) National	0	

IV) Publications:

More than 85 papers published in various international and national journals.

Publications (Since 2010):

1. Jyoti Tiwari, Prashant Tarale, Saravanadevi Sivanesan, Amit Bafana, Environmental persistence, hazard, and mitigation challenges of nitroaromatic compounds, Environmental Science and Pollution Research, 1-18, 2019.
2. Atul P Daiwile, Prashant Tarale, **Saravanadevi *Sivanesan**, Pravin K Naoghare, Amit Bafana, Devendra Parmar, Krishnamurthi Kannan, Role of fluoride induced epigenetic alterations in the development of skeletal fluorosis, Ecotoxicology and environmental safety, <https://doi.org/10.1016/j.ecoenv.2018.11.035>, 2019.
3. Shriniwas S. Basaiyye Sanjay Kashyap, Kannan Krishnamurthi **Saravanadevi Sivanesan**, Induction of apoptosis in leukemic cells by the alkaloid extract of garden cress (*Lepidium sativum*L.), Journal of Integrative Medicine, <https://doi.org/10.1016/j.joim.2019.03.004>, 2019
4. R Bafana, **S Sivanesan**, RA Pandey, Optimization and scale up of itaconic acid production from potato starch waste in stirred tank bioreactor, Biotechnology progress, <https://doi.org/10.1002/btpr.2774>, 2019
5. Karnika Prakash Satya Narayan Naik, Durai Vadivel, P. Hariprasad, Deepa Gandhi, **Sivanesan Saravanadevi**, Utilization of defatted sesame cake in enhancing the nutritional and functional characteristics of biscuits, Journal of Food Processing and Preservation, 42 (9): e13751, 2018.
6. R Appa, VA Mhaisalkar, A Bafana, **SS Devi**, K Krishnamurthi, T. Chakrabarti, P.K. Naoghare, Simultaneous quantitative monitoring of four indicator contaminants of emerging concern (CEC) in different water sources of Central India using SPE/LC-(ESI) MS-MS, Environmental monitoring and assessment, 190 (8): 489, 2018.
7. Tunde O. Etchie, **Saravanadevi Sivanesan**, Ayotunde T. Etchie, Gregory O. Adewuyi, Kannan Krishnamurthi, K.V. George, Padma S. Rao, The burden of disease attributable to ambient PM_{2.5}-bound PAHs exposure in Nagpur, India, Chemosphere, 204: 277-289, 2018
8. Valentin P Volobaev, Aleksey V Larionov, Ekaterina E Kalyuzhnaya, Ekaterina S Serdyukova, Svetlana Yakovleva, Vladimir G Druzhinin, Olga O Babich, Elena G Hill, Victor A Semenihiin, Nikolay I Panev, Varvara I Minina, **Saravana Devi Sivanesan**, Pravin Naoghare, Juliana da Silva, Gustavo RM Barcelos, Alexander Y

Prosekov, Associations of polymorphisms in the cytokine genes *IL1 β* (rs16944), *IL6* (rs1800795), *IL12b*(rs3212227) and growth factor *VEGFA* (rs2010963) with anthracosilicosis in coal miners in Russia and related genotoxic effects, *Mutagenesis*, 1-7, 2018.

9. Prashant Tarale, Atul P Daiwile, **Saravanadevi Sivanesan**, Reinhard Stöger, Amit Bafana, Pravin K Naoghare, Devendra Parmar, Tapan Chakrabarti, Kannan Krishnamurthi, Manganese exposure: Linking down-regulation of miRNA-7 and miRNA-433 with α -synuclein overexpression and risk of idiopathic Parkinson's disease, *Toxicology in Vitro*, Pergamon, 46:94-101, 2018.
10. Tunde O Etchie, Ayotunde T Etchie, Gregory O Adewuyi, Ajay Pillarisetti, **Saravanadevi Sivanesan**, Kannan Krishnamurthi, Narendra K Arora, The gains in life expectancy by ambient PM 2.5 pollution reductions in localities in Nigeria, *Environmental Pollution*, 236:146-157, 2018
11. Atul P Daiwile, **Saravanadevi Sivanesan***, Prashant Tarale, Pravin K Naoghare, Amit Bafana, Devendra Parmar, Krishnamurthi Kannan, Role of fluoride induced histone trimethylation in development of skeletal fluorosis, *Environmental toxicology and pharmacology*, 57: 159-165, 2018
12. Shriniwas S. Basaiyye, Pravin K. Naoghare, Sanjeev Kanojiya, Amit Bafana, Patrizio Arrigo, Kannan Krishnamurthi, **Saravanadevi Sivanesan***, Molecular Mechanism of Apoptosis Induction in Jurkat E6-1 Cells by Tribulus Terrestris Alkaloids Extract., *Journal of Traditional and Complementary Medicines.*, <https://doi.org/10.1016/j.jtcme.2017.08.014>, 2017
13. Deepa Gandhi, Pravin K. Naoghare, Amit Bafana, Krishnamurthi Kannan & **Saravanadevi Sivanesan***, Fluoride-Induced Oxidative and Inflammatory Stress in Osteosarcoma Cells: Does It Affect Bone Development Pathway? *Biol Trace Elem Res*, 175:, Issue 1, (103–111), 2017.
14. Tunde O. Etchie, **Saravanadevi Sivanesan**, Gregory O. Adewuyi, Kannan Krishnamurthi, Padma S. Rao, Ayotunde T. Etchi et al, The health burden and economic costs averted by ambient PM2.5 pollution reductions in Nagpur, India, *Environment International*, 102 (145-156), 2017
15. Preeti Shrivastava, Priyanka A. Mulay, Pravin K. Naoghare, Preeti Meshram, Mohammad Farooqui, Amit Bafana, Patrizio Arrigo, G. S. Kanade, **Saravanadevi Sivanesan**, Kannan Krishnamurthi & Tapan Chakrabarti, Elevated levels of urinary 17-ketosteroids in central Indian children residing near sewage treatment plant and solid waste disposal plant: A preliminary study, *Human and Ecological Risk Assessment*, DOI 10.1080/108070.2016.1239179, 2017.
16. Shrivastava P, Naoghare PK, Gandhi D, **Devi SS**, Krishnamurthi K, Bafana A, Kashyap SM, Chakrabarti T; Application of cell-based assays for toxicity characterization of complex wastewater matrices: Possible applications in wastewater recycle and reuse, *Ecotoxicol Environ Saf.*, doi: 10.1016/j.ecoenv.2017.04.023, 2017.
17. Tarale P, **Sivanesan S**, Daiwile AP, Stöger R, Bafana A, Naoghare PK, Parmar D, Chakrabarti T, Kannan K., Global DNA methylation profiling of manganese-exposed human neuroblastoma SH-SY5Y cells reveals epigenetic alterations in Parkinson's disease-associated genes, *Arch Toxicol.*, 91(7):2629-2641, 2017.
18. Tiwari J, Naoghare P, **Sivanesan S**, Bafana A.; Biodegradation and detoxification of chloronitroaromatic pollutant by *Cupriavidus*, *Bioresour Technol.*, 223:184-191, 2017.

19. Soni D, Gandhi D, Tarale P, Bafana A, Pandey RA, **Sivanesan S.**; Oxidative Stress and Genotoxicity of Zinc Oxide Nanoparticles to *Pseudomonas* Species, Human Promyelocytic Leukemic (HL-60), and Blood Cells, *Biol Trace Elem Res.*, 178(2):218-227. 2017.
20. Gandhi D, **Sivanesan S**, Kannan K; Manganese-Induced Neurotoxicity and Alterations in Gene Expression in Human Neuroblastoma SH-SY5Y Cells, *Biol Trace Elem Res.*, doi: 10.1007/s12011-017-1153-5, 2017
21. Alimba CG, Gandhi D, Sivanesan S, Bhanarkar MD, Naoghare PK, Bakare AA, Krishnamurthi K., Chemical characterization of simulated landfill soil leachates from Nigeria and India and their cytotoxicity and DNA damage inductions on three human cell lines, *Chemosphere*, 164:469-479, 2016
22. Prashant Tarale, Tapan Chakrabarti, **Saravanadevi Sivanesan**, Pravin Naoghare, Amit Bafana, and Kannan Krishnamurthi; Potential Role of Epigenetic Mechanism in Manganese Induced Neurotoxicity, *BioMed Research International*, Article ID 2548792, 2016.
23. Deepa Gandhi, Pravin K Naoghare, Amit Bafana, Krishnamurthi Kannan, **Saravanadevi Sivanesan**, Fluoride-Induced Oxidative and Inflammatory Stress in Osteosarcoma Cells: Does It Affect Bone Development Pathway?, *Biological trace element research*, 1-9, 2016.
24. Prashant Tarale, **Saravanadevi Sivanesan***, Atul P. Daiwile, Reinhard Stöger, Amit Bafana, Pravin K. Naoghare et al, Global DNA methylation profiling of manganese-exposed human neuroblastoma SH-SY5Y cells reveals epigenetic alterations in Parkinson's disease-associated genes, *Arch of Toxicol*, 2016
25. Ajam Yakub Shekh, Preeti Shrivastava, Ankit Gupta, Kannan Krishnamurthi, **Sivanesan Saravana Devi**, Sandeep N Mudliar, Biomass and lipid enhancement in *Chlorella* sp. with emphasis on biodiesel quality assessment through detailed FAME signature, *Bioresource technology*, 201 (276-286), 2016
26. Elango Bhakkiyalakshmi, Natarajan Suganya, Dornadula Sireesh, Kannan Krishnamurthi, **Sivanesan Saravana Devi**, Palanisamy Rajaguru, Kunka Mohanram Ramkumar, Carvacrol induces mitochondria-mediated apoptosis in HL-60 promyelocytic and Jurkat T lymphoma cells, *European journal of pharmacology*, 772 (92-98) 2016.
27. Deepa Gandhi, Prashant Tarale, Pravin K Naoghare, Amit Bafana, Krishnamurthi Kannan, **Saravanadevi Sivanesan**, Integrative genomic and proteomic profiling of human neuroblastoma SH-SY5Y cells reveals signatures of endosulfan exposure, *Environmental toxicology and pharmacology*, 41 (187-194), 2016.
28. Ajam Yakub Shekh, Preeti Shrivastava, Kannan Krishnamurthi, Sandeep N Mudliar, **Sivanesan Saravana Devi**, Gajanan S Kanade, Tapan Chakrabarti, Stress enhances poly-unsaturation rich lipid accumulation in *Chlorella* sp. and *Chlamydomonas* sp., *Biomass and Bioenergy*, 84 (59-66), 2016
29. Deepa Gandhi, Prashant Tarale, Pravin K Naoghare, Amit Bafana, Kannan Krishnamurthi, Patrizio Arrigo, **Sivanesan Saravanadevi**, An integrated genomic and proteomic approach to identify signatures of endosulfan exposure in hepatocellular carcinoma cells, *Pesticide biochemistry and physiology*, 125 (8-16) 2015.
30. Sreemanta Pramanik, Subin T Surendran, Sathishkumar Arumugam, **Saravana Devi**, Kannan Krishnamurthi, Tapan Chakrabarti, Polymorphisms in DNA repair and multidrug resistance genes among Sindhis of Central India, *Environmental toxicology and pharmacology* 40 (2) (480-485), 2015.

31. Pravin K Naoghare, Ajam Shekh, Amit Bafana, Priyanka Mulay, **Sivanesan Saravana Devi**, Kannan Krishnamurthi. Personal and social issues involved in cancer development. *Indian Journal of Community Health* 17 (1); 2015
32. Atul P. Daiwile, Pravin K. Naoghare, Manisha Girpunje, P. D. Prasada Rao, Tarun K. Ghosh, Kannan Krishnamurthi, Chibuisi G. Alimba, **Saravanadevi Sivanesan**. Correlation of melanophore index with a battery of functional genomic stress indicators for measurement of environmental stress in aquatic ecosystem, *Environmental toxicology and pharmacology*, 39 (2) 489-495, 2015.
33. Abhay Fulke, Krishnamurthi Kannan, Manisha D.Giripunje, **Saravana Devi Sivanesan**, Tapan Chakrabarti. Biosequestration of carbon dioxide, biomass, calorific value and biodiesel precursors production using a novel flask culture Photobioreactor *Biomass and Bioenergy*, 72, 136-142; 2015
34. Muhil Vannan Seralathan, **Saravanadevi Sivanesan**, Srinivasan Nargunanathan, Amit Bafana, Krishnamurthi Kannan, Tapan Chakrabarti, Chemotaxis-based endosulfan biotransformation: enrichment and isolation of endosulfan-degrading bacteria, *Environmental Technology* 36: 1 (60-67) 2015
35. S. Vincent, A. Daiwile, **S.S. Devi**, M. J. Kramer, M.F. Besser, B.S. Murty and Jatin Bhatt; Bio-Corrosion and Cytotoxicity Studies on Novel Zr55Co30Ti15 and CU60Zr20Ti20 Metallic Glasses; *Metallurgical and Materials Transactions A*, Springer US, 49 (499), 1975-2014, 2014
36. Muhil Vannan Seralathan, **Saravana Devi Sivanesan**, Amit Bafana, Sanjay Madanchand Kashyap, Arrigo Patrizio, Kannan Krishnamurthi, Tapan Chakrabarti; Cytochrome P450 BM3 of *Bacillus megaterium* - A possible endosulfan biotransforming gene; *Journal of Environmental Sciences* 26 (11), 2307–2314, 2014
37. Raju Yadav, Krishnamurthi Kannan, Ajam Y. Shekh, Sandeep N. Mudliar, **Saravana S. Devi**, Tapan Chakrabarti; Activity enhancement of carbonic anhydrase in *Chlamydomonas* sp. for effective CO₂ sequestration, *Clean Technologies and Environmental Policy*, Vol. 16 (8), 1827-1833, 2014
38. Raju R. Yadav, K. Krishnamurthi, Sandeep N. Mudliar, **S.Saravana Devi**, Pravin K. Naoghare, A.Bafana, T.Chakrabarti: Carbonic Anhydrase Mediated Carbon Dioxide Sequestration: Promises, Challenges and Future Prospects, *Journal of Basic Microbiology*, Vol 54, 472-481, 2014
39. Ram Avtar Pandey, Deepika Soni, **S. Saravana Devi***, Pravin K. Naoghare; Release, transport & toxicity of engineered nanoparticles; *Reviews of Environmental Contamination and Toxicology*, 234, 2015 1-47, 2014
40. Deepika Soni, Amit Bafana, Deepa Gandhi, **Saravanadevi Sivanesan***, Ram Avtar Pandey; Stress response of *pseudomonas* species to silver nanoparticles at the molecular level; *Environmental Toxicology & Chemistry*, 33 (9), 2126-2132, 2014
41. Muhil Vannan Seralathan, **Saravana Devi Sivanesan**, Srinivasan Nargunanathan, Amit Bafana, Kannan Krishnamurthi, Tapan Chakrabarti; Chemotaxis based endosulfan biotransformation: enrichment and isolation of endosulfan degrading bacteria. *Environmental Technology*, DOI:10.1080/09593330.2014.937464, 2014
42. Soumyadeep Sain, Pravin K. Naoghare, **S. Saravana Devi***, Atul Daiwile, K. Krishnamurthi, P. Arrigo and T. Chakrabarti, Beta Caryophyllene and Caryophyllene Oxide, Isolated from *Aegle Marmelos*, as the Potent Anti-inflammatory Agents against Lymphoma and Neuroblastoma Cells, 13(3):45-55, 2014

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44. N Suganya, E Bhakkiyalakshmi, TS Subin, K Krishnamurthi, **S Saravana Devi**, K Lau, TV Sekar, R Paulmurugan, KM Ramkumar, Proteomic Identification of Pterostilbene-Mediated Anticancer Activities in HepG2 Cells, 27 (7), 1243–1252, 2014
45. Ayotunde Titilayo Etchie, Tunde Ogbemi Etchie, Gregory Olufemi Adewuy, Kannan Krishnamurthi, Saravana S. Devi, Satish R. Wate, Prioritizing hazardous pollutants in two Nigerian water supply schemes: a risk-based approach, Bulletin of World Health Organization, 91(8): 553–561J., 2013
46. Pramanik S, Surendran ST, **Saravana Devi, S**, Krishnamurthi K, Chakrabarti T., Frequency and genotype distribution of ABCB1 gene polymorphisms among Maharashtrian population of Central India. Xenobiotica, 44 (6). 579-582., 2013
47. Ajam Yakub Shekh, Preeti Shrivastava, Kannan Krishnamurthi, Sandeep N. Mudliar, **Sivanesan Saravana Devi**, Gajanan S. Kanade, Satish K. Lokhande, Tapan Chakrabarti. Stress-induced lipids are unsuitable as a direct biodiesel feedstock: A case study with *Chlorella pyrenoidosa*. Bioresource Technology 138: 382–386, (2013).
48. Ramkumar KM, Manjula C, Elango B, Krishnamurthi K, **Devi SS & Rajaguru P**, *In vitro* cytotoxicity of *Gymnema montanum* in human leukemia HL-60 cells: Induction of apoptotic cell death by mitochondrial membrane potential collapse', Cell proliferation, 46 263-271, 2013.
49. Rishiram Ramanan, Krishnamurthi Kannan, **Saravana Devi Sivanesan**, Tapan Chakrabarti. Prevalence and phylogenetic relationship of two β -carbonic anhydrases in affiliates of Enterobacteriaceae, Annals of Microbiology, 63 (4), 1275-1282, 2013
50. Ajam Yakub Shekh, Kannan Krishnamurthi, Sandeep N Mudliar, Raju R Yadav, Abhay B Fulke, **Sivanesan Saravana Devi**, Tapan Chakrabarti. Recent Advancements in Carbonic Anhydrase–Driven Processes for CO₂ Sequestration: Minireview, Critical Reviews in Environmental Science and Technology. 42-14, 1419-1440, 2012
51. Yadav R. R., S. N.Mudliar, A.Y.Shekh, A.B.Fulke, **S. S.Devi**, K. Krishnamurthi, A.Juwarkar, T.Chakrabarti. Immobilization of carbonic anhydrase in alginate and its influence on transformation of CO₂ to calcite. Elsevier, Process Biochemistry, 47, 585–590, 2012.
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53. Rishiram Ramanan, Nadimuthu Vinayagamoorthy, **Saravana Devi Sivanesan**, Krishnamurthi Kannan, Tapan Chakrabarti. Influence of CO₂ concentration on carbon concentrating mechanisms in cyanobacteria and green algae: a proteomic approach. Algae, 27 (4), 295-301, 2012.
54. S. Pramanik, **S. Saravana. Devi**, S. Chowdhary, S. T. Surendran, K. Krishnamurthi, T. Chakrabarti. DNA repair gene polymorphism at XRCC1, XRCC3, XPD and

OGG1 loci in Maharashtrian population of central India. Chemosphere 82: 941-946, 2011.

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56. Deb DD, Parimala G, **Devi S.S.**, Chakraborty T, Effect of thymol on peripheral blood mononuclear cell PBMC and acute promyelotic cancer cell line HL-60. Chemico-Biological Interactions, 193, (1): 97-106, 2011
57. Nadimuthu Vinayagamoorthy Kannan Krishnamurthi, **Sivanesan Saravana Devi***, Pravin K. Naoghare, Raka Biswas Arup R. Biswas, Sreemanta Pramanik, Ashok R. Shende and Tapan Chakrabarti; Genetic polymorphism of CYP2D6*2 C→ T 2850, GSTM1, NQO1 genes and their correlation with biomarkers in manganese miners of Central India ; Chemosphere, 81, (10), 1286-1291, 2010
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V) Project(s) submitted/being pursued/carried as Investigator

Title of Project	Funding Agency	From	To	Approved Cost (Rs. In Lakhs)
Environment and Community Health Assessment Study in and around Chanderiya Lead and Zinc Smelter (CLZS) of M/s Hindustan Zinc Ltd., Chanderiya, Rajasthan (PI)	Hindustan Zinc Ltd. (CLZS), Chittorgarh, Rajasthan	06/05/2019	05/05/2021	65.00
Assessment of impact of diesel particulate matter in ambient air on health of employees deployed in opencast mines of WCL (PI)	Western Coal Field Nagpur	18/03/2017	30/09/2019	88.31
Study of risk assessment of endosulfan in human using in vitro Cell models (PI)	DBT, New Delhi	September 2011	September 2014	39.312
(Fish Melanophore as cytosensors (PI)	DBT, New Delhi	May 2010	December 2013	28.520
Toxicogenomic, proteomics and bioinformatics approach for identification of biomarkers in human population exposed to toxic pollutants (PI)	SIP	August 2007	March 2012	64.000
Integrated Nextgen approaches in health ,	CSIR, New Delhi	February 2012	February 2017	251.199

Title of Project	Funding Agency	From	To	Approved Cost (Rs. In Lakhs)
disease and environmental toxicity (INDEPTH) (Co-PI)				
Study to assess the impact of air pollution on public health & agriculture area in Wani and Arni, Maharashtra (Co-PI)	Maharashtra Pollution Control Board (MPCB)	26/02/2015	31/05/2017	40.00
Study to assess the impact of Air Pollution on Public Health (Epidemiological impact) & Agriculture Area in Wani and Arni Maharashtra-PHASE II (Co-PI)	Maharashtra Pollution Control Board (MPCB)	11/11/2016	31/03/2019	30.21
Sequestration of CO ₂ to biomass using CO ₂ tolerant micro-algae (Co-PI)	DST, New Delhi	05/01/2016	30/06/2019	35.63
On-site high density microalgae cultivation for enhanced biomass and lipid productivity: Use of wastewater and commercial Fertilizers as nutrients, CO ₂ utilization (Co-PI)	Department of Biotechnology	25/01/2017	24/01/2019	46.23
Investigation on the occurrence of endocrine chemicals (EDCs) in the water bodies and wastewater and development of a suitable analytical method for their quantification (Co-PI)	DBT, New Delhi	05/08/2016	04/08/2018	35.40
Human Health Assessment Study to Assess the Air Pollution & Health Impacts at Wada Plant of M/s Saint-Gobain India (Co-PI)	M/s Saint-Gobain India Pvt. Ltd., Palghar, Maharashtra	11/05/2017	31/03/2019	10.00

VI) Patents Awarded

- a. US patent on “A composition (RCUD) for protecting and/or repairing DNA from oxidative damages and a method thereof by Chakrabarti Tapan, **Saravana Devi Sivanesan**, Krishnamurthi Kannan, Dutta Dipanwita and Singh Rishi Narain, NEERI, Mansingka Sunil Balakrishna and Dawle Suresh Haribhau from GVAK. **No. 7,718,360 and confirmation dated May 18, 2010.**
- b. A PCT of China was awarded “A composition (RCUD) for protecting and/or repairing DNA from oxidative damages and a method thereof” by Chakrabarti Tapan, **Saravana Devi Sivanesan**, Krishnamurthi Kannan, Dutta Dipanwita and Singh Rishi Narain, NEERI, Mansingka Sunil Balakrishna and Dawle Suresh Haribhau from GVAK. Application Number: 03826375 Application Date: 2003/03/31; Publication Number: 1771045 Pub. Date: 2009/04/08; Announcement Number: 100475221 Announcement Date: 2006/05/10 **Grant Date: 2009-4-8**
- c. A WIPO patent was awarded “A composition (RCUD) for protecting and/or repairing DNA from oxidative damages and a method thereof” by Chakrabarti Tapan, **Saravana Devi Sivanesan**, Krishnamurthi Kannan, Dutta Dipanwita and Singh Rishi Narain, NEERI, Mansingka Sunil Balakrishna and Dawle Suresh Haribhau from GVAK. Application Number: PCT/IN2003/000125 Application Date: 31.03.2003; **Publication Number: WO/2004/087176 Pub. Date: 14.10.2004**

VII) Chapters in Books:

1. K. Krishnamurthi, **S. Saravana Devi** and T. Chakrabarti. Genotoxicity risk assessment of hazardous chemicals and wastes, Book on Biotechnology in Environmental Management Eds T.K. Ghosh T.Chakrabarti and G. Tripathi Publishers APH Publishing Corporation, New Delhi.
2. K. Krishnamurthi, **S Saravana Devi** & T. Chakrabarti. Sequestration of carbondioxide (CO₂) by enhancing carbonic anhydrase enzyme through external zinc fertilization. Book on Biotechnology in Environmental Management Eds T.K. Ghosh T. Chakrabarti and G. Tripathi Publishers APH Publishing Corporation, New Delhi
3. Ajam Y. Shekh, Kannan Krishnamurthi, Raju R. Yadav, **Sivanesan S. Devi**, Tapan Chakrabarti, Sandeep N. Mudliar, Vikas S. Chauhan, Ravi Sarada, Sanniyasi Elumalai, Algal-mediated carbon dioxide sequestration for climate change mitigation and conversion to value added products, Faizal Bux, Potential Biotechnological Applications of Microalgae: Biodiesel and Value Added Products, Taylor and Francis Publication, USA.

VIII) Professional Experience and Training relevant to the Project

- I have research experience in the area of genetic toxicology, proteomics and human risk assessment.

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I certify that the forgoing information is correct and complete to the best of my knowledge and nothing has been concealed and distorted.



(S. Saravana Devi)