Curriculum Vitae

Dr. Shivraj Hariram Nile

M.Sc, PhD.

Assistant Professor

Department of Biotechnology

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Carrier Objective

My objective is to be a part of an organization, which values merits, research skills, respects hard work and which can utilize my qualification and abilities for the mutual growth.

Areas of Research

Protein purification, Food chemistry, Natural Products, Enzymes, Enzyme Inhibition, Antioxidant, Anti-inflammatory, Anticancer, Antibacterial, Antifungal study, Biofules, Medicinal plants and Medicinal Chemistry.

Awards and Fellowships

1. ***Young Scientist Award,*** Oral Presentation, CIPAM-2011, International Conference on Medicinal and Aromatic Plants, Cagliari, Italy, 13-15 April, 2011.
2. ***Young Scientist Award,*** Poster Presentation, in International Conference, ACB-2011, Asian Congress on Biotechnology, Shanghai, China, 11-15 May, 2011.
3. **Travel Grant Award** for International Conference, ACB-2011, Asian Congress on Biotechnology, Shanghai, China, 11-15 May, 2011. DST-New Delhi, India.
4. ***Junior Research Fellow (2006-2007)*** awarded by University Grants Commission (UGC) New Delhi-India.
5. ***Senior Research Fellow (2008-2011)*** awarded by University Grants Commission (UGC) New Delhi-India.
6. Awarded by ***Eklave Merit Scholarship*** by Government of Maharashtra, India in 2003-2004.
7. **Best research paper** award (Bioinformatics as Potential tool for stem cell research in cancer therapy, Oral) National Symposium on Genomics, Proteomics and Bioinformatics, Feb 9-10, 2007.
8. **Travel Grant Award** for International Conference, from Barwale Foundation Hyderabad. 2011

Brief Outline of Research Work

1. Isolation and Characterization of Plant flavonoids molecules and their biological evaluation.
2. Analysis of medicinal Plant extracts (*T. Purpurea* and *P. Zylenica*) and their bioactive compounds for xanthine oxidase inhibition.
3. Analysis of medicinal plants (*T. Purpurea* and *P. Zylenica*) and their bioactive compounds for Antioxidant, Anti-inflammatory, Anticancer, Antibacterial, Antifungal study.
4. Chromatographic and Spectroscopic study medicinal plants (*T. Purpurea* and *P. Zylenica*) and their bioactive compounds.
5. Determination of Nutritive value, Mineral element content of Indian medicinal plants.
6. Determination of Antioxidant, Anti-inflammatory and Anticancer activity of Indian medicinal plants.
7. Enzyme (Xanthine Oxidase) Isolation, Purification and Inhibition.
8. Enzyme (Arginase) Isolation, Purification and Activation.
9. Chromatographic and Electrophoretic study of Xanthine oxidase.
10. *In silico* Study of Bioactive compounds by using Biomed Cache, PASS and PALLAS Software.
11. Since last five year teaching Biostatistics to post graduate students
12. Research experience on Biostatistical applications like ANOVA, SD, SE, correlation, regression, t-Test and chi-sqaure test etc.

1. PG: Amelioration of Aluminium Stress in Soybean (*Glycine max L).* by Proline and Histidine.
2. UG: Study of Antimicrobial activity of Medicinal plants
3. Project submitted to DBT and DST under innovative and young scientist program.

List of Publications

1. Shivraj H Nile and C.N. Khobragade (2011). Phytochemical analysis, Antioxidant and Xanthine oxidase Inhibitory Activity of *Tephrosia purpurea* Linn. Root Extract, Indian Journal of Natural Products and Resources (IJNPR), Vol. 2(1):52-58.
2. **Shivraj H. Nile** and C.N.Khobragade (2010). Antioxidant activity and flavonoid derivatives of *Plumbago zeylanica*, Journal of Natural Products, Vol. 3:130-133.
3. Babasaheb P. Bandgar, Sachin A. Patil, Balaji L. Korbad, Satish C. Biradar, **Shivraj H. Nile**, Chandrahasya N. Khobragade (2010). Synthesis and biological evaluation of a novel series of 2, 2-bisaminomethylated aurone analogues as anti-inflammatory and antimicrobial agents, European Journal of Medicinal Chemistry 45:3223-3227.
4. Babasaheb P. Bandgar, Sachin A. Patil, Balaji L. Korbad, **Shivraj H. Nile**, Chandrahase N. Khobragade (2010). Synthesis and biological evaluation of β-chloro vinyl chalcones as inhibitors of TNF-α and IL-6 with antimicrobial activity European Journal of Medicinal Chemistry, 45:2629–2633.
5. **Shivraj** H. **Nile** and C.N. N.Khobragade (2009). Determination of Nutritive Value and Mineral Elements of some Important Medicinal Plants from Western Part of India, Journal of Medicinal Plants, Volume 8, Supplement No. 5, winter.
6. **Nile, S.H**., Shirfule, A.L, Deshmukh, Y. D and Khobragade, C. N (2008). Physiological and biochemical alterations in *pisum sativum* l. following cadmium toxicity and its amelioration by salicylic acid, Journal of cell and tissue research, 8(2) 1393-1398 (2008).

7. **Shivraj H**. **Nile** and C.N. Khobragade (2008). Determination of Nutritive Value and Mineral Elements of some west Indian Spices. International Journal of Biotechnology Research, 1, 2, 49-53.
8. **Shivraj H**. **Nile** and C.N. Khobragade (2008). Analysis for loss in weight, Different colour development and in vitro antibacterial activity of some West Indian Spices. International Journal of Biotechnology Research, 1, 2, 59-63.
9. C.N. Khobragade and **Shivraj *H***. **Nile** (2010), Analysis of *in vitro* antibacterial activity of some West Indian spices with three different solvents against *S. typhi*. International Journal of Pharma Research and Development, IJPRD/2010/PUB/ARTI/VOV-2/ISSUE-4/JUNE/015:1-11.
10. **Shivraj H**. **Nile** and C.N. Khobragade (2010). *In-Vitro* Evaluation of *Tephrosia purpurea* shoots extract for Antioxidant, Anti-inflammatory and Xanthine oxidase inhibitory activity, Indian Journal of Biochemistry & Biophysics, **Accepted.**
11. **Shivraj H. Nile** and C.N.Khobragade (2011), Purification of *L-arginase* from Buffalo liver and effects of some Metal ions and Dihydropyrimidine derivatives on its kinetic parameters. *Engineering in Life Sciences*, **Accepted.**
12. Comparative purification, characterization and kinetic study of xanthine oxidase from cow and gout milk ***Archives in Biophysics and Biochemistry, Manuscript under Preparation***
13. **Shivraj H**. **Nile** and C.N. Khobragade (2011), Chemical Fingerprinting, Xanthine oxidase inhibition and *In vitro* and *in vivo* Antioxidant activity of Six Indian Medicinal Plants used to treat gout. *Biotechnology Journal**, Submitted.***

Paper Accepted as ORAL in international conferences:

1. Shivraj H Nile, Oral Prsentation, Chemical fingerprinting, xanthine oxidase inhibition and Antioxidant activity of indian medicinal plants. Oral Presentation, CIPAM-2011, International Conference on Medicinal and Aromatic Plants, Cagliari, Italy, 13-15 April, 2011.
2. Shivraj H Nile, **Poster presentation** in Asian Congress on Biotechnology 2011(ACB-2011) which will be held in Shanghai Jiao Tong University, Shanghai, China entitled "Chemical Fingerprinting, Xanthine Oxidase Inhibition and Antioxidant Activity of Indian Medicinal Plants" May 11-15, 2011.
3. Antioxidant, Anti-inflammatory and Xanthine Oxidase Inhibitory Activity of *Plumbago zeylanica*, 6th Conference on Medicinal and Aromatic Plants of Southeast European Countries Antalya, Turkey on 18-22th April, 2010.
4. Microbial and Xanthine oxidase inhibitory activity of some flavonoid Derivatives is accepted for oral presentation in EPS Global International Forum of Regional & Targeted Cancer Therapies (RTCT) November 5-7, 2010, in Shanghai, China.
5. Chemical Fingerprinting, Xanthine oxidase inhibition and Antioxidant activity of Important Indian Medicinal Plants used to treat gout, International Conference on Recent Trends in Therapeutic Advancement of Free radical Science and 10th annual meeting of SFRR India", January 09-11, 2011, Chennai, Tamil Nadu, India.

Paper Reviewed:

1. *In vitro* antioxidant potential of different parts of *Solanum surattense* Burn.f.. Indian Journal of Biochemistry and Biophysics -2010

2. Analgesic activity of *Nerium oleander Linn.*stem extracts on Wistar strain albino rats, Journal of Pharmaceutical Biology-2010.