

Faculty Profile

Name: **Dr.B.SENTHILKUMAR, Ph.D**
Designation: **Professor and Head**
Specialization: **Physiology & Phytotherapy.**



Contacts

Address : Office: Department of Zoology
Thiruvalluvar university,
Serkkadu, Vellore – 632 115.

Residence: **“Jothi Kiruba”**
52, Sabapathy Nagar,
Opp D.K.M.College,
Sainathapuram,
Vellore – 632 001. TN.

Phone : Office: (0416) 2274900
Residence: (0416) 2263430
Mobile: +91-9442378655

E-mail : senthil_cahc@yahoo.co.in

Membership : FAEB – Life member.
ISCAP – Life member.

Projects (Total projects: 04)

1. Title : Screening and identification of some folklore medicinal plants on alcohol induced liver toxicity in male *Albino* rats.

Duration : (2006 – 2008) – 2 Years – Completed. (Principal investigator)

Funding Agency : UGC Minor Project, New Delhi.

Amount Sanctioned : – Rs.93,500/-

2. Title : A comparative analysis of certain biochemical and cardio – respiratory parameters and difference between diabetic and normal yogic patients.

Duration : (2007 – 2009) – 2 Years – Completed. (Co-investigator).

Funding Agency : UGC Minor Project, New Delhi.

Amount Sanctioned : – Rs.72,600/-

3. Title : Studies on the viruses (MRNV / XSV and WSSV) pathogenic to *Macrobrachium rosenbergii* in India.

Duration : 3 Years – Completed. (Indian Joint-Collaborator). Completed.

Funding Agency : Funded by DST – IFCPAR, New Delhi – Indian Joint collaborator with Universite of Montpellier, France.

Amount Sanctioned : Rs.83.04/- lakhs

4. Title : Screening of Indian seaweeds for antiviral activity against White Spot Syndrome Virus (WSSV) in shrimp.

Duration : 3 Years - From - Feb–2010. Ongoing - (Principal investigator).

Funding Agency : UGC Major Research Project, New Delhi.

Amount Sanctioned : Rs.9.77/- lakhs.

LIST OF PUBLICATIONS : Total – 51+1

International: 16 National: 30 Articles:5 Book: 1

(One of the International research article (*J.OPEM*) has been rewarded \$100)

INTERNATIONAL JOURNALS

1. A.Abdul Zahir, A.Abdul Rahuman, C.Kamaraj, A.Bagavan, G.Elango, A.Sangaran and **B.Senthilkumar**. Laboratory determination of efficacy of indigenous plant extracts for parasites control. *Parasitol Res.* (2009). 105:453-461.
2. S.Palani, S.Raja, K.Sakthivel, K.Devi, and **B.Senthilkumar**. Hepatoprotective and antioxidant effects of *Monochoria vaginalis* against acetaminophen induced hepatotoxicity in rats. *Oriental. Pharm. Expt.Med.* (2010). 10(1):29-36.
3. S.Palani, S.Raja, R.Praveenkumar, D.Venkadesan, K.Devi, A.Sivaraj, and **B.Senthilkumar**. Therapeutic efficacy of antihepatotoxic and antioxidant activities of *Acorus calamus* on acetaminophen induced toxicity in rat. *Int.J.Integrative.Biol.* (2009). 7: (1). 39-44.
4. Sivaraj, A., Vinothkumar, P., Devi, K., Elumalai, E.K., **Senthilkumar, B.** Protective effect of aqueous leaf extract of *Alternanthera sessilis* L. on CCl₄ induced hepatic damage in *albino* mice. *Pharmacologyonline.* (2009). 2: 692-696.
5. S.Palani, S.Raja, R.Praveenkumar, K.Sakthivel, K.Devi, and **B.Senthilkumar**. Phytoconstituents evaluation and antihyperglycemic and antihyperlipidemic effects of the *Mahonia leschenaultia takeda* in streptozotocin induced diabetic rats. *Toxicol. Environ. Chem.* (2009). 1(13).

6. S. Palani, S. Raja, D. Rajalingam, R. Praveen Kumar, **B.Senthilkumar**. Therapeutic efficacy of *Pimpinella tirupatiensis* (Apiaceae) on acetaminophen induced hepatotoxicity and oxidative stress in male albino rats. *Pharmacologyonline*. (2009). 2:708-719.
7. S.Palani, S.Raja, R.Santhosh Kalash, and **B.Senthilkumar**. Evaluation of nephroprotective and antioxidant activity of *Mahonia leschenaultia takeda* on acetaminophen induced toxicity in rat. *Toxicol. Environ.Chem.* (2010). 92(4):789-799.
8. S.Palani, S.Raja, R.Praveenkumar P.Parameswaran, and **B.Senthilkumar**. Therapeutic efficacy of *Acorus calamus* on acetaminophen induced nephrotoxicity and oxidative stress in male albino rats. *Acta Pharmaceutica Scientia*. (2010).52:89-100.
9. S.Palani, S.Raja, D.Venkadesan, S.Karthi, K.Sakthivel, **B.Senthilkumar**. Antioxidant activity and hepatoprotective potential of *Terminalia pallida*. *Archives of Applied Science Research*. (2009). 1(1):18-28.
10. Sathiyaraj, K., Sivaraj, A., Madhumitha, G., Vinothkumar, P., Mary Saral, A., Devi, K., **Senthilkumar, B.** Antifertility effect of aqueous leaf extract of *Aegle marmelos* on male albino rats. *Int.J.Curr.Pharmaceutical.Res.* (2010). 2(1). 26-28.
11. Sathiyaraj, K., Sivaraj, A., Vinoth Kumar, P., Devi, K., **Senthilkumar, B.** Spermicidal activity of *Azadirachta indica* (Neem) aqueous leaf extract on male albino mice. *Int. J. Pharm Tech Res.* (2009). 2(1), 588-591.
12. Devi, K., Sivaraj, A., Vinothkumar, P., **Senthilkumar, B.**, Syed Zameer Ahmed, K., Sathiyaraj, K., David, E. Hypolipidemic effect of *Aegle marmelos* leaf extract in streptozotocin (STZ) induced diabetic male albino rats. *Int. J. Pharm Tech Res.* (2010) 2(1). 259-265.
13. Vinothkumar, P., Sivaraj, A., Madhumitha, G., Mary Saral, A., **Senthilkumar, B.** Invitro antibacterial activities of *Picrorhiza kurroa* rhizome extract using agar well diffusion method. *Int.J.Curr.Pharmaceutical.Res.* (2010). 2(1). 30-32.
14. Subramani Palani, Sundararajan Raja, Ramanujam Praveenkumar, Ranganathan Selvaraj, **Balasubramanian Senthilkumar**. Evaluation of phytoconstituents and anti-nephrotoxic and antioxidant activities of *Monochoria vaginalis*. *Pak. J. Pharm. Sci.* 24 (3), 2011:293-301.
15. Madhumitha, G., Mary Saral, A., **Senthilkumar, B.**, Sivaraj, A. Hepatoprotective potential of petroleum ether leaf extract of *Crossandra infundibuliformis* on CCl₄ induced liver toxicity in albino mice. *Asian.J.Tropical.Med.* 2010. 788-790.
16. M. Sarathi, A. Nazeer Basha, M. Ravi, C. Venkatesan, **B. Senthilkumar** and A.S. Sahul Hameed. Clearance of white spot syndrome virus (WSSV) and Immunological changes in experimentally WSSV – injected *Macrobrachium rosenbergii*. *Fish & shell fish Immunology* (2008) 25, 222 – 230.

17. T.Thirumalai, Beverly C David, K.Sathiyaraj, **B. Senthilkumar**, E. David. Ethnobotanical study of Anti-diabetic medicinal plants used by the local people in Javadhu hills Tamilnadu, India. *Asian Pacific Journal of Tropical Biomedicine*. (2012);S910-913.

NATIONAL JOURNALS

1. Sivaraj, A., Devi, K., Vinothkumar, P., Sathiyaraj, K., Sayed Zameer Ahmed, K., **Senthilkumar, B.** Lipid lowering effect of aqueous extract of flower of *Cassia auriculata* on streptozotocin (STZ) induced diabetic male albino rats. *J.Pharmacy Res.* (2010), 3(4). 683-686.
2. Sivaraj, A., Vinothkumar, P., Sathiyaraj, K., Devi, K., **Senthilkumar, B.** Hepatoprotective and antioxidant properties of *Coccinia grandis* aqueous leaf extract on ethanol induced liver toxicity in albino rats. *J.Pharmacy.Res.* (2010), 3(3). 533-536.
3. S. Palani, S. Raja, S.Karthi, Selvi Archana, **B. Senthilkumar.** *In vivo* analysis of nephro & hepato protective effects and antioxidant activity of *Madhuca longifolia* against acetaminophen-induced toxicity & oxidative stress. *J.Pharmacy.Res.* (2010). 3(1):9-16.
4. Vinoth kumar, P., Sivaraj, A., Syed Zameer Ahmed, K., Sivamani, P., Devi, K., **Senthilkumar, B.** Evaluation of antibacterial activities of *Andrographis paniculata* leaf extract against selective gram positive and gram negative species by *in vitro* methods. *J. Pharmacy. Res.* (2010). 3(7):1513-1515.
5. Syed Zameer Ahmed, K., Sivaraj, A., Vinoth kumar, P., Sundaresan, S., Natarajan, K., Devi, K., Abdul Rahuman, A., **Senthil kumar, B.** Antihyperglycemic and antihyperlipidemic effect of ethyl acetate flower extract of *Cassia auriculata* on alloxan induced diabetes in male albino rats. *J. Pharmacy. Res.* (2010). 3(6):1300-2303.
6. Vinoth kumar, P., Sivaraj, A., Devi, K., **Senthil kumar, B.** Hepatoprotective and antioxidant properties of aqueous rhizome extracts of *Picrorhiza kurroa* on CCl₄ induced liver toxicity in albino rats. *J. Pharmacy. Res.* (2010). 3(6):1280-1282.
7. A.Sivaraj, P.Vinothkumar, S.Palani, K.Devi, E.K.Elumalai, **B.Senthilkumar.** Preventive effect of aqueous leaf extract of *Alternanthera sessilis* L. on CCl₄ induced hepatic damage in albino mice. *Int.J.Pharmagenesis.* (2010). 1(2):275-278.
8. Sivaraj, A., Vinothkumar, P., Sathiyaraj, K., Thirumalai, K., Elumalai, E.K., **Senthilkumar, B.** Oxygen consumption and sub lethal effect of fresh water fish *Channa punctatus*, exposed to tannery effluents. *Int.J.Pharmagenesis.* 2010.1(2): 193-198.
9. Vinothkumar, P., Sivaraj, A., Elumalai, E.K., **Senthilkumar, B.** Hepatoprotective effect of *Coccinia grandis* L. aqueous leaf extract on carbon tetrachloride (CCl₄) induced liver damage in albino rats. *Int.J.Pharmagenesis.* 2010.1(2): 165-169.

10. Philip Jacob, P., Sivaraj, A., **Senthilkumar, B.**, Mary Saral, A. Phytochemical screening and CNS activity of *Lawsonia inermis* L. seeds. *J.Pharmacy.Res.* 2010. 3(9):2163-2166.
11. S.Palani, S.Raja, **B.Senthilkumar.** Hepatoprotective and antioxidant potential of *Chloroxylon swietenia* (Rutaceae) on acetaminophen induced toxicity in male *albino* rats. *Int.J.Pharm Tech.Res.* (2010). 2(1): 162-170.
12. A.Sivaraj, B. Preethi Jenifa, M. Kavitha, P. Inbasekar, **B. Senthilkumar**, A. Panneerselvam. Antibacterial activity of *Coccinia grandis* leaf extract on selective bacterial strains. *J. Applied Pharmaceutical Sci.* (2011), 01 (07):120-123.
13. A.Sivaraj, P.Vinothkumar, K.Sathiyaraj, S.Sundaresan, K.Devi, **B. Senthilkumar.** Hepatoprotective potential of *Andrographis paniculata* aqueous leaf extract on ethanol induced liver toxicity in *albino* rats. *J. Applied Pharmaceutical Sci.* (2011), 01 (06):204-208.
14. K.Sathiyaraj, A.Sivaraj, T.Thirumalai, N.Baskaran, K.Vinothrasu, P.Inbasekar, **B.Senthilkumar.** Antifertility Activity of Aqueous leaf extract of *Andrographis paniculata* in Male *Albino* Rats. *Int.J.Pharmaceutical & Biological Archives.* (2011); 2(4):1108-1111.
15. T.Thirumalai, E.K.Elumalai, S.Viviyan Therasa, **B.Senthilkumar**, and E.David. Ethnobotanical survey of folklore plants for the treatment of jaundice and snakebites in Vellore Districts of Tamilnadu, India. *Ethnobotanical Leaflets.* (2010). 14:529-536.
16. S.Palani, S.Nirmalkumar, R.Gokulan, D.Rajalingam and **B.Senthilkumar.** Evaluation of nephroprotective and antioxidant potential of *Tragia involucrate*. *Drug invention today.* (2009). 1(1): 55-60.
17. Sivaraj, A., Devi, K., Palani, S., Vinoth kumar, P., **Senthilkumar, B.**, David, E. Anti-hyperglycemic and Anti-hyperlipidemic effect of combined plant extract of *Cassia auriculata* and *Aegle marmelos* in streptozotocin (STZ) induced diabetic *albino* rats. *Int. J. PharmTech Res.* (2009). 1(4):1010-1016.
18. Vinothkumar, P., Sivaraj, A., Elumalai, E.K., **Senthilkumar, B.** Carbon tetrachloride-induced hepatotoxicity in rats – Protective role of aqueous leaf extracts of *Coccinia grandis*. *Int. J. Pharm Tech. Res.* (2009). 1(4): 1612-1615.
19. S. Palani, S.Raja, R. Praveen Kumar, R.Selvaraj, K.Sakthivel, K. Devi and **B. Senthilkumar.** Therapeutic efficacy of *Chloroxylon swietenia* (Apiaceae) on acetaminophen induced nephrotoxicity and oxidative stress in male *albino* rats. *Online.J.Biotech.Res.* (2009).
20. S.Palani, S.Raja, R.Praveenkumar,Soumya Jayakumar and **B.Senthilkumar.** Therapeutic efficacy of *Pimpinella tirupatiensis* (Apiaceae) on acetaminophen induced nephrotoxicity and oxidative stress in male *albino* rats. *Int.J.Pharm Tech.Res.* (2009). 1(3):925-934.

21. T.Thirumalai, E.K.Elumalai, **B.Senthilkumar**, and E.David. Ethanobotanical study of medicinal plants used by the local people in Vellore District, Tamilnadu, India. *Ethnobotanical Leaflets*. (2009). 13:1302-1311.
22. Sivaraj, A, P. Vinoth Kumar, E. David, K. Devi and **B. Senthilkumar**. Hypoglycemic effect of *Melia azedarach* and *Eugenia jambolana* in streptozotocin (STZ) induced diabetic male albino rats. *J.comp.Ani. Phy.* (26) 1 : 75 – 79, 2008.
23. Inbasekar, P., Sivaraj, A., Sathiyaraj, K., Sundaresan, S., **Senthilkumar, B.** A Preliminary Investigation of Freeze Storage on the Production Trimethylamine Nitrogen in *Leiognathus splendens* (Family: Leiognathidae). *Int.J.Pharmaceutical & Biological archives*. 2011. 2(5):1493-1496.
24. Leela Vinodh, K.S., Natarajan, A., Sundaresan, S., Sivaraj, A., Devi, K., **Senthilkumar, B.** Biochemical changes during germination of *Vigna unguiculata* effect of bio fertilizer o6-em & ma. *Int. J. Institutional. Pharmacy and Life Sci.* 2(3): May-June 2012.
25. A.Natarajan., K.Syed Zameer Ahmed., S.Suderesan., A.Sivaraj., K.Devi., **B.Senthilkumar**. Effect of aqueous flower extract of *Catharanthus roseus* on alloxan induced diabetes in male albino rats. *Int.J.Pharmaceutical.Sci Drug.Res.* 2012 4(2): 150-153.
26. S. Palani, **B. Senthilkumar**, R. Praveen Kumar, K. Devi, D. Venkatesan and E. Raja Sathendra. Effect of the ethanolic extract of *Indigofera barberi* (L) in acute Acetaminophen – Induced Nephrotoxic Rats. *Adv. Biotech.* VII : (3) 28 – 31 (2008).
27. D. Venkatesan, S. Palani, S. Kamatchiammal, Mazher sultana, K. Devi **B.Senthilkumar**. Isolation and detection of indicator MS2 coliphage in different environment and sea foods by PEG precipitation and GAC – UAPB, RT – PCR method. *Adv. Biotech.* VII : (01) 26 – 32 (2008)
28. **B. Senthilkumar**, T. Dhandapani, M. Pazhani, and K. Devi. LDH profile of *Parastromateus niger* (Bloch) and *Pampus argenteus* (Euphrasen). *Anjac. J.Sci.* vol. 3(2) 35 – 38 (2004).
29. **B. Senthilkumar**, A.P. Kamalakara Rao and S. Mahalingam. A Biochemical approach to taxonomy of *Sardinella longiceps* (Clupeidae – Pisces). *J. Ecobiol.* 8(2)091-094 (1996).
30. **B. Senthilkumar**, A.P. Kamalakara Rao and S. Mahalingam. A biochemical approach to taxonomy of *Sardinella fimbriata* and *Sardinella longiceps* – *Clupeidae* (Pisces) of the Madras coast. *J. Environ. Biol.* 18(3), 267 – 270 (1997).

ARTICLES PUBLISHED (5).

1. **B. Senthilkumar**, K. Devi, A. Sivaraj and M. Senthil Vadivu. Studies on the sublethal effect of tannery effluent on some tissues in the fresh water teleost fish, *labeo rohita* (Hamilton), *Proc. Nat. Sem. Env. Poll.* 1 : 5 – 8 (2004).

2. **B. Senthilkumar** and K. Habeeb Rahaman. Scampi diseases and management, **Aqua star**, May 2004.
3. **B. Senthilkumar** and K. Habeeb Rahaman. Key role of post larvae selection, **Aqua star**, May 2005.
4. **B. Senthilkumar** and K. Habeeb Rahaman. Size variation in cultured shrimp. **Aquaculture guide**, April 2005, pp. 71 – 72.
5. **B. Senthilkumar**. Taura Syndrome Virus (TSV). **Aqua star**, Sep., 2003, pp. 62 – 64.

BOOK

1. **ரஹ்மான்:ஹாஜி** - In Tamil version related to Environment. **ஹாஜி:ஹாஜி:ஹாஜி**, **ஹாஜி** & **ஹாஜி:ஹாஜி:ஹாஜி**- **ஹாஜி:ஹாஜி:ஹாஜி**, 2006, p-131. **ஹாஜி:ஹாஜி:ஹாஜி**; **ஹாஜி:ஹாஜி:ஹாஜி** -41