


Name	DR.B.Senthilkumar	
Designation	Professor & Head	
Mailing Address	“Jothi Kiruba” 52, Sabapathy Nagar, Opp to DKM College, Sainathapuram, Vellore – 632 001.	
Academic Qualifications	M.Sc., Ph.D., M.A (YHE).	
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Teaching Experience: 22 years

Research Experience: 25 years

Research Area / Specialization(s): Animal Physiology & Phytotherapy research

Research Guidance / Supervision:

Programmes of Study	Completed	Ongoing
Ph.D	10	7
M.Phil	63	4

Research Papers

Published in International Journals	Published in National Journals	Presented in International Conferences	Presented in National Conferences
17	30		

Funded Research Projects (Completed)

S.No	Agency	Period		Project Title	Budget (Rs.lakhs)
		From	To		
1.	UGC, New Delhi	2006	2008	Screening and identification of some folklore medicinal plants on alcohol induced liver toxicity in male albino rats	0.93
2	UCG, New Delhi	2007	2009	A comparative analysis of certain biochemical and cardio-respiratory parameters and difference between	0.72
3	UGC, New Delhi	2010	2013	Screening of Indian seaweeds for antiviral activity against White spot syndrome virus (WSSV) in shrimp	10.45

Consultancy Projects

S.No	Agency	Period		Project Title	Budget (Rs.lakhs)
		From	To		
1	DST- IFCPAR	2003	2006	Studies on the viruses (MRNV/XSV and WSSV) pathogenic to <i>Macrobrachium resenbergi</i> in India	83.04

Number of Seminars / Conferences / Workshops / Events attended: 20

Number of Seminars / Conferences / Workshops / Events organized: 02

Number of Invited / Special Lectures delivered : 09

Number of Books / Chapters / Monographs / Manuals written : 1

Achievements / Awards / Honours:

1. Best teacher award – lions club of GKD millennium, Chennai,
Dist 324-A1.
2. Scientific research and social service award – ESRO, Chennai.
3. As an organizer for voluntary blood donation camp – Govt., of Tamilnadu,
AIDS control society, Chennai.
4. As an organizer of tourist awareness week – Tamilnadu tourism &
development corporation.

5. Best teacher award – 2015 – New Vision voluntary organization, Thiruvannamalai.

Membership in Professional / National / International Bodies:

1. ESRO – Chennai.
2. ISCAP – Sri Venkateswara University, Thirupathi.
3. Scientific advisor for NCSC – Tamilnadu Science forum, Chennai.

Additional Responsibilities:

1. Director – Curriculum development cell, Thiruvalluvar University.
2. Member – IQAC – Thiruvalluvar University.

Countries Visited:

1. France – Universite of Montepellire – II
2. Spain – Natural Museum

Others

- Patents - Filed: 1
- Products developed: Nil

Publications In Journals:

International: 21 National: 36 Articles:5 Book: 3

(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.
18. K.Sakthivel, S.Palani, R.Selvaraj, D.Venkatesan, H.Sivasankari. **B.Senthilkumar**. Cardioprotective and Antioxidant potential of Scilla hyacinthine. *J.Biological.Sci.* 13(5):313-322. 2013.
19. Poongothai, K., Ponmurugan, P., Syed Zameer Ahmed, K., **Senthilkumar, B.** and Sheriff, S.A. Antihyperglycemic and antioxidant effects of *Solanum xanthocarpum* leaves (field grown & in vitro raised) extracts on alloxan induced diabetic rats. *Asian Pacific J Tropical Medicine* 412- 420. **11.** 778-785.
20. K. Syed Zameer Ahmed, K. Poongothai, P. Ponmurugan, **B. Senthilkumar**. Ameliorative potential of *Solanum trilobatum* on oxidative stress in alloxan induced diabetic rats. *Pakistan Journal of Pharmaceutical Sciences* Vol 29.
21. Sathiyaraj.K., Sivaraj.A., Thirumalai.T., **Senthilkumar.B.** Ethnobotanical study of antifertility medicinal plants used by the local people in Kathiyavadi village, Vellore District, Tamilnadu, India. *Asian Pacific J. Trop Biomedicine.* 2012; 1285-1288.

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. Vinothkumar, 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. A. Natarajan, K.S. Leelavinodh, A. Jayavelu, K. Devi, **B. Senthilkumar.** A study on ethnomedicinal plants of Kalavai, Vellore District, Tamilnadu, India. *Journal of Applied Pharmaceutical Science.* 3 (01), pp. 099-102. 2013.
29. R. Thangamani, A. Jayavelu, K. Natarajan, KS. Leelavinodh, Devi. K, **B.Senthilkumar.** Efficacy of Nicotianatabacum Extract on Infertility in male Albino Rats. *International Journal of Pharmaceutical & Biological Archives.* 2014; 5(2): 126 – 131.
30. A. Jayavelu, A. Natarajan, S. Sundaresan, K. Devi, **B. Senthilkumar.** Hepatoprotective Activity of *Boerhavia Diffusa* Linn. (Nyctaginaceae) against Ibuprofen Induced Hepatotoxicity in Wistar Albino Rats. *International Journal of Pharma Research & Review,* April 2013; 2(4):1-8.
31. A.Jayavelu, A.Natarajan, S. Sundaresan, K. Devi, **B. SenthilKumar.** Therapeutic Efficacy of combined plant extract of *Andrographis panicultata* Wall. ex Nees and *Achyranthes*

aspera L. against Paracetamol induced Hepato and Renal Toxicity in Wistar albino rats. *Int. J. Applied BioResearch*. 2013; (16):8-16.

32. D.Venkatesan, S.Palani, **B.Senthilkumar**, S. Kamatchiammal, Mazher sultana and K.Devi. Isolation and detection of indicator MS2 coliphage in different environment and sea foods by PEG precipitation and GSC-UAPB_RT-PCR method. *Advanced Biotech*. 2008. 26-32.
33. K. Sakthivel, S.Palani, R. Santhosh Kalash, K. Devi, **B. Senthilkumar**. Phytoconstituents analysis by gc-ms, Cardioprotective and antioxidant Activity of buchanania axillaris against Doxorubicin-induced cardio toxicity in Albino rats. *International Journal of Pharmaceutical Studies and Research*. 1(1).2010. 34-48.
34. **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).
35. **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).
36. **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. சுற்றுச்சூழல் - In Tamil version related to Environment. பா.செந்தில்குமார், க.தேவி & தி.து.பாலசுப்பிரமணியன்- முதற்பதிப்பு, 2006, p-131. வேங்கடவன் பதிப்பகம், சென்னை -41

2. Palani Subramani, **Senthilkumar Balasubramanian**. Therapeutic efficacy of Indian medicinal plants on Hepatorenal toxicity. **Lambert academic publishing. Germany.**
3. Sakthivel Kuppusamy, Devi K, **Selthilkumar Balasubramanian**. Cardioprotective and antioxidant potential of Indian medicinal plants. **Lambert academic publishing. Germany.**