



Dr. B. KADALMANI
Assistant Professor

Contact

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Academic Qualifications: M.A./M.Sc./M.Phil./Ph.D./

1. M.Sc., Zoology (1998), Bharathidasan University, Tiruchirappalli, India.
2. M.Phil., Zoology (2000), Bharathidasan University, Tiruchirappalli, India.
3. Ph.D., Zoology (2007), Bharathidasan University, Tiruchirappalli, India.

Teaching Experience: 12 Years

1. 2008 – Till date
Assistant Professor
Department of Animal Science
Bharathidasan University
Tiruchirappalli – 620 024.
2. 2006 – 2008
Assistant Professor
Department of Biotechnology
VMKV Engg. College
Vinayaga Mission University
Salem -636308.

Research Experience: 20 Years

Additional Responsibilities

1. Additional Co-Ordinator (2016 to Till date), National Centre for Alternative Animal Experiments (NCAAE), Bharathidasan University, Tiruchirappalli, India.
2. Scientist in-Charge (2016 to Till date), Institutional Animal Ethical Committee (IAEC), Bharathidasan University, Tiruchirappalli, India.
3. Treasurer (2017 to Till date), Bharathidasan University Alumni Association (BUAA), Bharathidasan University, Tiruchirappalli, India.
4. Treasurer (2018 to Till date), Society for Alternatives to Animal Experiments, (SAAE), Bharathidasan University, Tiruchirappalli, India.
5. Co-ordinator (2018- Till date), Center for Pheromone Technology (CPT), Department of Animal Science, Bharathidasan University, Tiruchirappalli, India.

Areas of Research

Reproductive Biology and Cancer Biology.

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	05	07
	M.Phil.	11	01
Project	PG	27	03
	UG / Others	0	0

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
24	-	10	-	-

Cumulative Impact Factor (as per JCR) :	40.197
h-index	: 14
i10 index	: 20
Total Citations	: 670

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	DST-FAST TRACK	2012	2015	Tributyltin promotes abnormal cholesterol homeostasis in testis steroidogenesis	19,99,863
2	UGC	2012	2015	Lapatinib inhibits the maturation of Cumulus – oocyte complex via EGFR signaling in mice ovary	10,91,038
3	DST-WOS-A	2013	2016	Comparative Study of Invasion of Ectopic Endometrial cell and Implantation Failure	22,42,226
4	DST-EMEQ (SERB)	2013	2017	Identification of potential gene targets of microRNAs involved in the medical pregnancy termination in BALB/c mouse model	25,20,000

Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	-	-	-	-	-
2	-	-	-	-	-

Consultancy Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	-	-	-	-	-
2	-	-	-	-	-

Others: Nil

Patents

1. Nil

Distinctive Achievements / Awards

1. IUSSTF-Fellow (Indo-US Scientific and Technology Forum) (2010 to 2011), Department of Obstructive and Gynecology, Yale University School of Medicine, New Haven, CT, USA.

Events organized in leading roles

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

1. National Seminar cum Workshop on Animal Cell Culture Techniques (ACCT-2012) on March 19-21, 2012 at Department of Animal Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu.
2. National Seminar cum Workshop on Animal Cell Culture and Molecular Techniques (ACCMT-2014) on November 05-11, 2014 at Department of Animal Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu.

Events Participated (optional)

Conferences / Seminars / Workshops: 24

i. Conferences / Seminars: 20

1. Fourth International Symposium / Sixteenth National Symposium on "Recent Trends in Life Sciences", held from 7th to 9th Feb. 2000 at University of Kerala, Tiruvananthapuram, Kerala, India.
2. National Symposium on "Male Reproduction", held from Nov. 10 to 12. 2000 at Bharathiar University, Coimbatore, Tamil Nadu, India.
3. XIX National Symposium on "Reproductive Biology and Comparative Endocrinology" held from 17th to 19th Jan. 2001 at M.S. University of Baroda, Vadodara, Gujarat, India.
4. National Symposium on "Marine Algal Research in India-Prospect and Retrospect" held from 16th to 18th Aug. 2001 at National Facility for Marine Cyanobacteria, Bharathidasan University, Tiruchirappalli, Tamil Nadu., India.

5. XIX National Symposium on “Reproductive Biology and Comparative Endocrinology” held from 7th to 9th Jan. 2002 at Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.
6. National Seminar on “Recent Trends in Animal Biotechnology” held from 17th to 19th Mar. 2004 at Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.
7. National Level Seminar on “Special Lectures in Biosciences” held from 31st Mar. to 1st Apr. 2005 at Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.
8. National Level Expo & Seminar on “Herbal Focus-2005” held from 29th to 30th Jan. at Srimad Andavan Arts & Science College, Tiruchirappalli, Tamil Nadu, India.
9. National Level Seminar-Cum-Special Lecture on “Emerging Trends in Animal Biotechnology” held from 4th to 5th Mar. 2009 at Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.
10. National conference on Biotechnology 2009 at Vinayaka Missions University, Salem, Tamil Nadu, India.
11. National Level Seminar on “Challenges and Opportunities in Biological Sciences” held from 12th & 13th February 2010 at Muthayammal College of Arts & Science, Namakkal, Tamil Nadu, India.
12. National Colloquim in *In vitro* Toxicology, 2011 at Mahatma Ganthi-Doerenkamp Centre for Alternatives to Animals in Life Science Research, Bharathidasan University, , Tiruchirappalli, Tamil Nadu, India.
13. Frontiers in Reproduction at Yale: Fertility and Women’s Health, 29th April, 2011, Yale School of Medicine, Yale University, USA.
14. National Seminar on “Emerging Trends in Cancer and Stem Cell Biology” held on 10th – September 2012 at Department of Biomedical Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.
15. Oral paper presented on “Endometrial Stromal Stem Cells from Women with Endometriosis Abnormally Express COX-2, StAR, CYP19A1 and Apoptotic Markers” by Graciela Krikun, Balamuthu Kadalmani, Karthikeyan Palanivel, Hugh S Taylor, in 60th Annual Meeting of the Society for Gynecologic Investigation. Plasticity: Molecules to Motherhood and Beyond, Florida, USA, 20 – 23, 2013.
16. Oral paper presented on “ Testicular Carcinoma a Molecular Targets Approach” , International Conference on “Current Scenario and Future Prospects of

- Biotechnology” (ICCSFPOB-2016) Organized by Department of Biotechnology, Thanthai Hans Roever College, Perambalur on 9th August 2016, Tamil Nadu, India.
17. Oral paper presented on “Endometriosis Associated Implantation Failure Prevent by Matrix Matello Proteinase (MMP 2& 9) Inhibitors I”. International conference cum Webinar on “Recent innovations in Biosciences” held at Holy cross college (Autonomous), Tiruchirappalli on 7th Feb 2018, Tamil Nadu, India.
 18. The “National Conference on Impact of Climatic change on Public health” (ICCPH) during 6-7 March 2018 held at Center for Climatic Change Research, Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.
 19. Poster presented on World Congress on Reproductive Health with Emphasis on Family Planning an Assisted Reproductive Technology & 28th Annual Meeting of the Indian Society for the Study of Reproduction and Fertility (ISSRF) 23rd - 25th February at Maternal Health & Research Trust, Hyderabad, India.
 20. National Conference on “Alternatives to Animal Experiments” (NCAAE-2018), 27th November, 2018, Jamia Hamdard, New Delhi.

ii. Workshops: 04

1. Workshop on Pharmacology & Toxicology-An Experimental & Clinical Approach- held at Periyar College of Pharmaceutical Sciences for Girls. Tiruchirappalli, Tamil Nadu, India.
2. Symposium and Workshop on ‘Pluripotent Stem Cells in Adult Mammalian Gonads’ held from 6-7 September 2013 at NIRRH, Parel, Mumbai, India.
3. UGC-Sponsored Two days Workshop for Academic Administrators on “Institutional Assessment and Accreditation” on 12th & 13th March 2018 at UGC- Human Resource Development Centre & Internal Quality Assurance Cell, Bharathidasan University Tiruchirappalli, Tamil Nadu, India.
4. Participating in Industry – Academia Light Microscopy Workshop “ From Basics to Optical Sectioning” Organized by Carl Zeies India (Bangalore) Pvt. Ltd. Between 14-15 may, 2018 at UGC National Centre for Alternatives to Animal Experiments, Bharathidasan University Tiruchirappalli, Tamil Nadu, India.

Other Training Programs

1. Human embryonic stem cell culture training at Yale Stem cell center, Yale School of Medicine, New Haven, CT, USA.
2. Human Endometrial Stem cell culture Training at Obstructive and Gynecology Department, Yale School of Medicine, New Haven, CT, USA.
3. Flow Cytometry and Cell Sorting Analysis Training at Yale Cell Sorter Facility, Yale School of Medicine, New Haven, CT, USA.
4. Confocal Microscopy and Image Analysis Training at Yale Stem cell center, Yale School of Medicine, New Haven, CT, USA.

Overseas Exposure / Visits

1. IUSSTF-Fellow (Indo-US Scientific and Technology Forum) (2010 to 2011), Department of Obstructive and Gynecology, Yale University School of Medicine, New Haven, CT, USA.

Membership in

Professional Bodies

1. Life Member: Indian Society for the Study of Reproduction & Fertility (ISSRF), India.
2. Life Member: Laboratory Animal Scientists' Association (LASA), India.
3. Life Member: Bharathidasan University Alumni Association (BUAA), Bharathidasan University, Tiruchirappalli, India.

Editorial Board

1. International Journal of Current Microbiology and Applied Sciences.
2. International Journal of Environmental Science and Ecotechnology.
3. International Journal of Current Research in Biosciences and Plant Biology.

Academic Bodies (such as Board of Studies etc.,)

1. Board of Studies – Department of Zoology, Bishop Heber College (Autonomous) Tiruchirappalli, India. (29.07.2015 to 28.07.2017).
2. Board of Studies – Department of Zoology, Nehru Memorial College (Autonomous), Puthanampatti, India. (13.10.2017 to 12.10.2020).

3. Board of Studies – Department of Zoology, Kundhavai Nachiyaar Government Arts College for Women's (Autonomous), Thanjavur, India. (05.07.2018 to 04.07.2021).
4. Board of Studies – Department of Zoology, Seethalakshmi Ramaswami College (Autonomous), Tiruchirappalli, India. (01.08.2018 to 31.07.2021).

Resource persons in various capacities

Number of Invited / Special Lectures delivered: **05**

1. Reproduction and Obesity- Muthaiyamal Arts and Science College, Namakal, Tamil Nadu, India.
2. Introduction to Animal Cell culture and Its Applications. EVR, College of Arts and Science, Tiruchirappalli, Tamil Nadu, India.
3. Infertility and its Management- Animal Science Club, Department of Animal Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.
4. Assisted Reproductive Technology- Animal Science Club, Department of Animal Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.
5. Role of endometrial stem cells and their transcriptional regulation of endometriosis- at Obstructive and Gynecology Department, Yale School of Medicine, New Haven, CT, USA.

Others

1. Articles published in Newspapers / Magazines : **Nil**
2. Products developed : **Nil**
3. No. of PhD Thesis evaluated : 18
4. No. of PhD Public Viva Voce Examination conducted : 17
5. Sequences submitted in GenBank: **Nil**

Recent Publications

1. Rajeswari M and **Kadalmani B.** (2018). Diethylstilbestrol (DES) induced endometriosis in balb/c mice treated with MMP-2 and 9 inhibitors-I. *Int. J of Pharma Sci and Res*, 9(7), 2773-2782. (Impact Factor: 0.59).

2. Sudha A, Srinivasan P, Kanimozhi V, Palanivel K and **Kadalmani B.** (2018). Antiproliferative and apoptosis-induction studies of 5-hydroxy 3', 4', 7-trimethoxyflavone in human breast cancer cells MCF-7: an *in vitro* and *in silico* approach. *J Recept Signal Transduct Res*, 1-12. (Impact Factor: 1.77).
3. Kanimozhi V, Palanivel K, Akbarsha M A and Kadalmani B. (2018). Molecular mechanisms of tributyltin-induced alterations in cholesterol homeostasis and steroidogenesis in hamster testis: *In vivo* and *in vitro* studies. *J Cell Biochem*, 119(5), 4021-4037. (Impact Factor: 3.44).
4. Ramya V, Prakash Shyam K, Gnanamani A and **Kadalmani B.** (2017). β -Asarone Exhibits Antifungal Activity by Inhibiting Ergosterol Biosynthesis in *Aspergillus niger* ATCC 16888. *Proce National Acad of Sci, India Section B: Biol Sci*, 1-12. (Impact Factor: 0.3).
5. Kanimozhi V, Palanivel K, Akbarsha M A and **Kadalmani B.** (2016). Tributyltin-mediated hepatic, renal and testicular tissue damage in male Syrian hamster (*Mesocricetus auratus*): a study on impact of oxidative stress. *Springerplus*, 5(1), 1523.
6. Rajeswari M, Ramanidevi T and **Kadalmani B.** (2016). Cohort study of endometriosis in south Indian district. *Int J Reprod Contracept Obstet Gynecol*. 5(11): 3883-3888
7. Rajeswari M and **Kadalmani B.** Curcumin enhances the implantation process in endometriosis induced animal model. *J Acad Ind Res*.2017; 6(5): 72-77.
8. Ganesan M and **Kadalmani B.** (2016). A retrospective analysis of incidence of breast cancer at a tertiary care hospital in South India. *J Acad Industri Res*, 4: 199-202.
9. Ganesan M and **Kadalmani B.** (2016). Phase dependent discrepancy in murine vaginal micro-environment: A correlative analysis of pH, glycogen and serum estrogen upon exposure to lapatinib ditosylate. *In J Pharm Pharmaceut Sci*, 8; 404-407.
10. Palanivel K, Kanimozhi V, **Kadalmani B** and Akbarsha M A. (2014). Verrucarin A induces apoptosis through ROS-mediated EGFR/MAPK/Akt signaling pathways in MDA-MB-231 breast cancer cells. *J of Cell Biochem*, 115(11), 2022-2032. (Impact Factor: 3.44).
11. PalanivelK, Kanimozhi V and **Kadalmani B.** (2014). Verrucarin A alters cell-cycle regulatory proteins and induces apoptosis through reactive oxygen species-dependent

- p38MAPK activation in the human breast cancer cell line MCF-7. *Tumour Biol*, 35(10), 10159-10167. (Impact Factor: 2.96).
12. Kanimozhi V, Palanivel K, **Kadalmani B**, Krikun G and Taylor H S. (2014). Apolipoprotein E induction in Syrian hamster testis following tributyltin exposure: a potential mechanism of male infertility. *Reprod Sci*, 21(8), 1006-1014. (Impact Factor: 2.06).
 13. **Kadalmani B**, Taylor H S, Krikun G and Palanivel K. (2013). Atypical expression of COX-2, StAR, CYP19A1 and apoptotic regulators in CD90 positive endometrial stromal cells from women with endometriosis. *J Endometri Pelv Pain Disor*, 5(2), 77-85.
 14. Palanivel K, Kanimozhi V, **Kadalmani B** and Akbarsha M A. (2013). Verrucarin A, a protein synthesis inhibitor, induces growth inhibition and apoptosis in breast cancer cell lines MDA-MB-231 and T47D. *Biotech lett*, 35(9), 1395-1403. (Impact Factor: 1.85).
 15. Vishnubalaji R, Manikandan M, Al-Nbaheen M, **Kadalmani B**, Aldahmash A, and Alajez N M. (2012). *In vitro* differentiation of human skin-derived multipotent stromal cells into putative endothelial-like cells. *BMC Develop Biol*, 12(1), 7. (Impact Factor: 2.79).
 16. Vishnubalaji R, Al-Nbaheen, **Kadalmani B**, Aldahmash A and Ramesh T. (2012). Skin-derived multipotent stromal cells – an archrival for mesenchymal stem cells (Review). *Cell Tissue Res*. 350(1): 1–12. (Impact Factor: 3.114).
 17. Vishnubalaji R, Al-Nbaheen M, **Kadalmani B**, Aldahmash A and Ramesh T. (2012). Comparative investigation of the differentiation capability of bone-marrow-and adipose-derived mesenchymal stem cells by qualitative and quantitative analysis. *Cell Tissue Res*, 347(2), 419-427. (Impact Factor: 3.114).
 18. Alagendran S, Archunan G, Rameshkumar K, **Kadalmani B**, Rodriguez J A, Fernandez G, Martinez G and Guzman RG. (2010). 2-Nonenal-ovulatory specific volatiles in human saliva throughout menstrual cycle by gas chromatography and mass spectrometry analysis. *Am J Biochem Biotechnol*, 6(3), 187-194.
 19. Arumugam S, Kavimani S, **Kadalmani B**, Bakrudeen Ali Ahmed A, Akbarsha MA and Rao MV. (2008). Antidiabetic activity of leaf and callus extracts of *Aegle marmelos* in rabbit, *Sci Asia* 34: 317- 321. (Impact Factor: 0.176).

20. Sarathchandran I, Manavalan R, Akbarsha M A, **Kadalmani B** and Karar P K. (2007). Studies on spermato toxic effect of ethanolic extract of *Capparis aphylla* (Roth). *J Biol Sci* 7: 544-548.
21. Sarathchandran I, Manavalan R, Akbarsha M A, **Kadalmani B** and Karar P K. (2007). Effect of ethanolic extract of *Capparis aphylla*(Roth) on testicular steroidogenesis in rat. *J Biol Sci*. 7: 582-584.
22. Akbarsha M A, **Kadalmani B** and Tamilarasan V (2007). Efferent ductules of the fan-throated lizard *Sitana ponticeriana* Cuvier: light and electron microscopy study. *Acta Zool*.88: 265-274. (Impact Factor: 1.133).
23. Faisal K, Parveen S, Rajendran R, Girija R, Periasamy V S, **Kadalmani B**, Puratchikody A, Ruckmani K, Pereira B M J and Akbarsha M A. (2006). Male reproductive toxic effect of *Quassia amara*: Observations on mouse sperm, *J Endocrinol Reprod*. 10 : 66 – 69.
24. Akbarsha M A, Tamilarasan V and **Kadalmani B** (2006). Histological variation along and ultrastructural organization of the epithelium of the ductus epididymidis of the fan-throated lizard *Sitana ponticeriana* Cuvier. *Acta Zool*. 87: 181-196. (Impact Factor: 1.133).
25. Faisal K, Parveen S, Rajendran R, Girija R, Periasamy V S, **Kadalmani B**, Puratchikody A, Ruckmani K, Pereira B M J and Akbarsha M A. (2006). Male reproductive toxic effect of *Quassia amara*: Observations on mouse sperm, *J Endocrinol Reprod* .10 : 66 – 69.
26. Akbarsha M A, Tamilarasan V and **Kadalmani B**. (2006). Light and electron microscopic observation of fabrication, release and fate on fate of biphasic granules produced by epididymal principal cells of the fan-throated lizard *Sitana ponticheriana* Cuvier. *J Morphol*. 267: 713-729. (Impact Factor: 1.71).
27. Akbarsha M A, Tamilarasan V, **Kadalmani B** and Daisy P (2005). Ultrastructural evidence for secretion from the epithelium of ampulla ductus deferentis of the fan-throated lizard *Sitana ponticeriana* Cuvier. *J Morphol*.266: 94-111. (Impact Factor: 1.71).
28. George J M, Smita M, **Kadalmani B**, Girija R, Oommen O V and Akbarsha MA. (2004). Contribution of the secretory material of caecilian (Amphibia: Gymnophiona) male

- Mullerian gland to motility of sperm: A study in *Uraeotyphlus narayani*. *J Morphol.*263: 227-237. (Impact Factor: 1.71).
29. George J M, Smita M, **Kadalmani, B**, Girija R, Oommen O V and Akbarsha M A (2004). Secretary and basal cells of the epithelium of the tubular glands in the male mullerian gland of the Caecilian *Uraeotyphlus narayani*(Amphibia: Gymnophiona). *J Morphol.*262: 760-769. (Impact Factor: 1.71).
30. Akbarsha M A, **Kadalmani B**, Girija R, Faridha A and Shahul Hamid K (2001). Spermatotoxic effect of carbendazim. *Indian J Exp Biol.* 39:921-924. (Impact Factor: 1.295).
31. **Kadalmani B**, Girija R, Faridha A and Akbarsha M A (2002). Male reproductive toxic effect of carbendazim: Hitherto unreported targets in testis. *Indian J Exp Biol.*40: 40-41. (Impact Factor: 1.295).
32. Akbarsha M A, **KadalmaniB**, Girija R and Faridha A (2000). Carbendazim generates symplasts in rat spermatogenic clones. *Indian J Exp Biol.* 38: 1251-1254. (Impact Factor: 1.295).
33. Akbarsha M A, Vijendrakumar S, **Kadalmani B**, Girija R and Faridha A (2000).Curative property of *Withania somnifera* dunal root in the context of carbendazim-induced histopathological changes in the liver and kidney. *Phytomedicine*7: 499-507. (Impact Factor: 3.268).
