

Dr.R.SANKAR

Assistant Professor

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Department of Animal Behaviour and
Physiology, School of Biological Sciences

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Educational Qualifications

: M.Sc., PhD

Professional Experience

: Teaching: 8.7 years, Post Doc Research 1.5 years

FIELD OF SPECIALIZATION

- Pheromone and Wild Life Conservation
- Behavioral Ecology
- Cancer Biology

RESEARCH SPECIALIZATION

- We focus our research in pheromonal identification and characterization of bound volatiles in mammals and making a biochemical kit to detect estrus to enhance the success rate of artificial insemination.

Research Supervision:

Program	Completed	Ongoing
Ph.D		5
M.Phil		

PROFESSIONAL EXPERIENCE

No	Institution	Position	From (date)	To (date)	Duration
1	School of veterinary medicine, Hokkaido University, Sapporo, Japan	Postdoctoral research fellow	October 2006	March 2008	1.5 Years
2	Department of Biotechnolgy , Bharathidasan university	Guest Lecturer	August- 2009	March -2010	7 months
3	Animal behavior & Physiology, School of Biological Sciences , Madurai Kamaraj University	Assistant Professor	18.03. 2014	17.03. 2014	4 years
4	Animal behavior & Physiology, School of Biological Sciences , Madurai Kamaraj University	Assistant Professor	18.03. 2014	Till date	

RESEARCH COLLABORATION (BOTH NATIONAL & INTERNATIONAL)

Name of the Collaborator	Institute	Collaboration Details	Collaboration Output (Papers/Patents/Research/Online)
Toshiyuki Saito DVM, PhD	Department of Animal Medical Sciences Faculty of Life Sciences Kyoto Sangyo University, Kita- ku, Kyoto, Japan	Stress Disorders and Regeneration of Neurons in the Brain	1. Ponnirul Ponmanickam, Govindaraju Archunan, Shanmugam Achiraman, Ramaiyan Sankar, Toshiyuki Saito, Yoshiaki Habara . 2013. Preputial gland activates olfactory receptor neurons in rat: calcium imaging study using laser scanning confocal

			microscopy. <u>Indian journal of biochemistry & biophysics</u> . 06/2013; 50(3):242-6. (Impact Factor: 1.03).
Dr. S.ACHIRAMAN	Department of Environmental Biotechnology School of Environmental Sciences Bharathidasan University Tiruchirappalli	Chemical Ecology and Pheromone Biology	Papers/online /research

COMPLETED RESEARCH PROJECT

No	Title of the Project	Funding Agency	Total Grant	Year
1	Molecular Aspects on Chemical Communication in Animals (Co-PI)	DST-PURSE	12 cr	2012-2015
2	Cancer biology (Co-PI)	DBT-IPLS	10 cr	2012-2017
3	Rodent pest management (Co-PI)	UGC-CAS	60 lks	2012-2017

ON-GOING RESEARCH PROJECT

No	Title of the Project	Funding Agency	Total Grant	Year
1	INVESTIGATIONS OF INTRACELLULAR AND MOLECULAR FUNCTIONAL EFFECTS OF PROBIOTIC ANTI- TUMOUR COMPOUND IN HUMAN COLON CANCER CELL LINES (Co-PI)	DST-PURSE	2cr	2016-2019
2	HUMAN COLON CANCER CELL LINES (Co-PI)	UGC-NRCBS	10 cr	2018-2023

HONORS/AWARDS/RECOGNITIONS

1. **Heiwa Nakajima foundation fellowship , Japan (September– October. 2018)**
2. **Mext** Fellowship by Japan Government, 2006-2008
3. Convener for Winter School on “**Protein Purification Technology & Coral Reef Monitoring Techniques**”
1st March to 14th March 2017 at School of Biological Sciences Madurai Kamaraj University madurai

PUBLICATIONS

1. Ponnirul Ponmanickam, Govindaraju Archunan, Shanmugam Achiraman, **Ramaiyan Sankar**, Toshiyuki Saito, Yoshiaki Habara . 2013. Preputial gland activates olfactory receptor neurons in rat: calcium imaging study using laser scanning confocal microscopy. *Indian journal of biochemistry & biophysics*. 06/2013; 50(3):242-6. (Impact Factor: 1.03).
2. Shanmugam Achiraman , Govindaraju Archunan, Bethunaicken Abirami, Palanivel Kokilavani, Udhayaraj Suriyakalaa, Devaraj Sankar Ganesh, Soundararajan Kamalakkannan, Soundarapandian Kannan, Yoshiaki Habara, **Ramaiyan Sankar** (2011). A surge of Squalene in the preputial gland of female rat during estrous cycle: an estrous indicating scent mark. *Theriogenology*. (2.045) (Impact Factor)
3. R Sankar, G Archunan 2011. Gas chromatographic/mass spectrometric analysis of volatile metabolites in bovine vaginal fluid and assessment of their bioactivity *International journal of analytical chemistry* 2011
4. R. Sankar, G. Archunan, 2008. Identification of putative pheromones in bovine (*Bos taurus*) faeces in relation to estrus detection. *Animal Reproduction Science*. 103: 149–153. (1.90) Impact Factor
5. R Sankar, G Archunan, Y Habara Detection of oestrous-related odour in bovine (*Bos taurus*) saliva: bioassay of identified compounds. _R Sankar, G Archunan, Y Habara *Animal* 10/2007; 1(9):1321-7. (1.65) Impact Factor
6. R. Sankar, G. Archunan. 2005. Discrimination of bovine estrus-related odors by mice . *Journal of Ethology* , 23(2):147-151. (1.00) Impact Factor
7. Sankar and G. Archunan, 2002. Occurrence of flehmen reaction in bull towards bovine (*Bos taurus*) estrus urine. *Proc: XX Symp Reprod Biol Comp Endocrinol.*, Jan, 7-9; 2002.
8. R. Sankar^{1, 2} and G. Archunan¹, 2012. Seasonal Effects on Estrus Behaviours in Dairy Cattles. *Cloud Publications International Journal of Advanced Veterinary Science and Technology* 2012, Volume 1, Issue 1, pp. 28-34, Article ID Sci-62.

PAPER PRESENTED IN CONFERENCE/SEMINAR/WORKSHOP

Name of the Conference	Date	Place	Title	Author(s)
National science day & 44 th Aqua-terr annual conference on biological sciences,	2014	Madurai kamaraj University Madurai	Gas chromatographic/ Mass spectrometric analysis of volatile metabolites in male cattle saliva and assessment of their bioactivity Page no-27	Sankar et all.,
National conference on recent trends in modern biology & 46 th Aqua-Terr annual conference at the Department of plant sciences, the school of biological sciences, Madurai kamaraj university, Madurai	2015	Madurai kamaraj University Madurai	Evaluation characterization & maintenance of endomycorrhizal germplasm bank under in situ condition, Page no-46	Sankar et all.,
National conference on recent trends in modern biology & 46 th Aqua-Terr annual conference at the Department of plant sciences, the school of biological sciences, Madurai	2016	Madurai kamaraj University Madurai	Lethal effect of <i>Cronobacter sakazakii</i> lipopolysaccharide in <i>Caenorhabditis elegans</i> page no-56	Sankar et all.,
National symposium on current perspective in animal biotechnology	2011	Bharathidasan University, Tiruchy	metabolically engineered <i>Haematococcus pluvialis</i> under stress condition in different media.	Sankar et all.,

CONFERENCE/WORKSHOP/SEMINAR/TRAINING ORGANIZED

Type	Name	Date(s)	Place	Role Played	Funding Agency
Workshop	Protein Purification Technology & Coral Reef Monitoring Techniques	1 st March to 14 th March 2017	SBS, MKU	Convener	UGC

MEMBERSHIP IN PROFESSIONAL BODIES

- Aqua-Terr programme

ADMINISTRATIVE EXPERIENCE

Role Played	Responsibilities	Period (Month & Year)
SSS Course i/c	Conduct class, seminar and exam	2014-Till date

CONTACT

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