



**VETERINARY & ANIMAL SCIENCE RESEARCH  
FOUNDATION (VASREF)**

Registration ID: 81509289/ D.S.R.O. (K), BBSR, India

**VASREF AWARD**

**Jai Sunder**



0320. Veterinary and Animal Science Research Foundation (VASREF) is delighted to confer the award of Fellow of Veterinary and Animal Science (FVAsc) to Dr Jai Sunder, B.V.Sc. & A.H., M.V.Sc., Ph.D., Principal Scientist, Division of Animal Science, ICAR-Central Island Agricultural Research Institute, Port Blair, Andaman & Nicobar Islands, India in recognition of his momentous contribution to Veterinary and Animal Science in the year 2020.

**Antecedent:** Dr Jai Sunder was born to illustrious parents (Mother: **Smt Mamitha** and Father: **Shri M.R. Sunder Velu**) on 16-Oct-1973, resident of Port Blair in South Andaman, India, which is the southernmost island of the Great Andaman & Nicobar Island, famous for fabulous beaches and monumental cellular jail, used as detention centre of independence fighters of colonial India.



**Academic credentials:** The academic credentials of Dr Jai Sunder in chronological order are: (1) Graduation (**B.V.Sc. & A.H.**) from Faculty of Veterinary Science (**Bidhan Chandra Krishi Viswavidyalaya**, Mohanpur, West Bengal), in the year 1995, with 65.93% marks. (2) Post-graduation (**M.V.Sc.**) in Veterinary Bacteriology & Mycology from **Indian Veterinary Research Institute**, Izatnagar, Bareilly, U. P. in the year 1997, with GPA: 8.149/10. (3) Doctoral (**Ph.D.**) degree in Veterinary Bacteriology & Mycology from **Indian Veterinary Research Institute**, Izatnagar, Bareilly, U.P. in the year 2000, with GPA: 8.259/10.

**Career Particulars:** The career particulars of Dr Jai Sunder in chronological order are: (1) **Scientist**, ICAR-Central Island Agricultural Research Institute (CIARI), Portblair (2000-2004). (2) **Scientist - Sr. Scale**, ICAR- Central Island Agricultural Research Institute (CIARI), Portblair (2004-2007). (3) **Sr. Scientist**, ICAR-Central Island Agricultural Research Institute (CIARI), Portblair (2007-2013). (4) **Principal Scientist**, ICAR-Central Island Agricultural Research Institute (CIARI), Portblair (2013-to date).

## VETERINARY AND ANIMAL SCIENCE RESEARCH FOUNDATION

**Research curriculum:** Dr Jai Sunder was the Principal investigator/Co-Principal Investigator of 20 research projects, depicted below:

S. N.	Project Name	Duration	Funding Agency
<b>PRINCIPAL INVESTGATOR</b>			
1	Animal Health information system through disease monitoring and surveillance	2000-2004	National Agricultural Technology Project- ICAR
2	Sero-surveillance and monitoring of FMD In A & N Islands	2011-2016	Indian Council of Agricultural Research (I.C.A.R.)
3	AICRP on Foot and Mouth Disease	2014- cont	I.C.A.R.
4	AICRP on Animal disease monitoring and surveillance	2014- cont	I.C.A.R.
5	AICRP on Goat improvement	2014- cont	I.C.A.R.
6	Study on the status of mineral profile in cattle sera and its correlation with infertility and production	2017-2020	RKVY, A & N Administration
7	Promoting Multiplier Flock Concept in goat farming for Entrepreneurship Development among Rural Youths	2020-2022	NABARD
<b>CO-PRINCIPAL INVESTGATOR/ MENTOR/ HUB FACILITATOR</b>			
8	Identification of molecular markers for natural disease resistance in Nicobari fowl by RAPD-PCR. <b>(Co-PI)</b>	2000-2003	National Agricultural Technology Project- ICAR
9	Epidemiological studies of livestock and poultry diseases of A&N Islands. <b>(Co-PI)</b>	2000-2003	AP- Cess Fund, ICAR
10	Studies on important fish diseases in Bay Islands with special emphasis on isolation, identification, virulence factors, antigenic characterization and drug sensitivity of etiological agents. <b>(Co-PI)</b>	1999-2002	AP-Cess Fund, ICAR
11	Study on the status of mineral profile in bovines of A&N Islands and its correlation with morbidity and production. <b>(Co-PI)</b>	2004-2007	AP-Cess Fund, ICAR
12	Conservation and phenotypic and molecular characterization of indigenous goat of Andaman and Nicobar Islands. <b>(Co-PI)</b>	2006-2009	Department of Biotechnology
13	Meat quality assessment of different indigenous chicken breeds of Bay islands.	2002-2005	AP Cess Fund, ICAR
14	Characterization, Conservation, Evaluation and Improvement of native Teressa Goat. <b>(Co-PI)</b>	2005-2007	AP Cess Fund, ICAR
15	Characterization and Conservation of Nicobari pigs.	2004-2007	AP Cess Fund, ICAR
16	Technological innovation for commercial exploitation of <i>M. citrifolia</i> as livelihood. <b>(Co-PI)</b>	2008-2010	National Medicinal Plant Board, Govt of India
17	AICRP on Pig improvement <b>(Co-PI)</b>	2014-cont	I.C.A.R.
18	Establishment of duckling resource units at N & M Andaman. <b>(Co-PI)</b>	2016-2018	NABARD
19	Isolation, Identification and Characterization of Marine Actinomycetes from Andaman coast. <b>(MENTOR)</b>	2009-2013	Department of Science & Technology
20	Establishment of Biotech Kisan Hub <b>(FACILITATOR)</b>	2019-2021	Department of Biotechnology

## Scientific & Technological achievements:

**Filing of Patents:** (1) Low cost technology for prevention and treatment of sub-clinical and clinical mastitis in bovines: Patent No. 1154/DEL/2013/ Dated 18-04-2013. (2) Novel acaricide compositions for veterinary topical applications and the method of preparation thereof: Patent No. 201631043680/ Dated 21-12-2016. (3) Method of determining the sex of non-ratite birds: Patent No. 201911006026/ Dated 15-02-2019.

**Intellectual property rights (Trade marking):** Registered with Trade Marks Registry, New Delhi (Application No. 2625165-2625169/ Date 11-11-2013) for the following products / technologies: Morical<sup>®</sup>, Grommune<sup>®</sup>, Nicorock, Nishibari & Dweepika.

(1) Morical<sup>®</sup>: *Morinda citrifolia* based herbal feed supplement for poultry to improve the egg production and egg shell quality. (2) Grommune<sup>®</sup>: *Morinda citrifolia* based herbal tonic for livestock and poultry as growth promoter and immunomodulator. (3) Herbal based ointment for healing of wound/cut. Ointment was prepared by using the extracts of *Vitex trifolia* and *E. odoratum*. (4) *M. citrifolia* based ointment for wound healing. (5) Herbal acaricide for control of external ticks in animals. (6) Herbal eye drop: Herbal eye drop for control of bacterial infections in eye.

**Development & Standardization of Animal welfare technologies:** (1) Disease map that assisted in forecasting module on incidence of livestock diseases in A&N islands. (2) Standardization of diagnostic tool for identification of *Salmonella*, *E. coli* and Infectious bursal disease in poultry. (3) Levamisole (Imidazothiazole) based ointment for treatment and control of hump sore in cattle. (4) Inactivated formalized vaccine for control of Infectious bursal disease in poultry. (5) Probiotic (Standardized from local isolate of *Lactobacillus* sp.) for enhancement of productivity and protection against diseases in poultry. (6) Development of rural poultry production technology for unemployed youths for rearing Nicobari fowl. (7) Water based ultrasonographic technology as a tool to study ovarian status in ducks, udder status in mastitis affected cows, for characterization of back fat thickness in pigs and examination of goat testes. (8) Development of alternate poultry production technology: The germplasm of turkey and guinea fowl were evaluated for their adaptability to A&N climatic condition and package of practices for backyard poultry farming. (9) Standardization of feeding technology using *Morinda citrifolia* fruit extract as growth promoter, immunomodulator and egg production enhancer in Nicobari fowl and Japanese quails. (10) Development of feeding technology using *Morinda citrifolia* fruit extract to lower serum cholesterol level in Nicobari fowl and Japanese quails. (11) Development of feeding technology using *Morinda citrifolia* fruit as antioxidant. (12) Development of feeding technology using *Morinda citrifolia* fruit juice as quality enhancer of milk in mastitis infected dairy animals. (13) Development of technology for identification of broad spectrum antimicrobial and antifungal compounds from the solvent extracts of leaves, fruits, seeds and stem bark of *Morinda citrifolia*. (14) Development of feed technology to pelletize calcium as feed supplement in cattle. (15) Development of breeding technology using CIDR to improve reproductive performance of infertile cattle and goats. (16) Development of breeding package to improve induction and synchronization of oestrus and reduction of inter-calving period.

**Publications:** (1) Research papers in National and International Journals: **138**. (2) Publication/ Presentation of research papers/abstracts in national and international seminars/conferences: **150**. (3) Books / Book chapters: **30**. (4) Technical manuals: **13**. (5) Extension folders: **38**.

**Research Guidance:** MSc / MVSc / PhD students: **19**.

## Professional Honours / Awards:

**National awards:** (1) ICAR award for outstanding multi-disciplinary team research in Animal Science for the biennium 2001-02. (2) ICAR award: Fakhruddin Ali Ahmed award for outstanding research in tribal areas for the year 2011. (3) ICAR award: Breed registration certificate for Registration of Teresa goat and Nicobari pig on 23-08-2016 by ICAR. (4) ICAR-NBAGR award for conservation of Nicobari fowl -2017.

**Society awards:** 23.

**Fellow award:** Fellow of Andaman Science Association for outstanding work in research in the island ecosystem

*We pray for health, happiness, prosperity and peace for Dr Jai Sunder with the following Vedic hymn (Ishopanishad).*

ईशावास्यमिदं सर्वं यत्किञ्च जगत्यां जगत्  
तेन त्यक्तेन भुञ्जीथा मा गृधः कस्यस्विद्धनम्

īśā vāsyamidam sarvaṁ yatkiñca jagatyāṁ jagat  
tena tyaktena bhujñithā mā gṛdhaḥ kasyasviddhanam

**All this is for habitation by the Lord, whatsoever is individual universe of movement in the universal motion. By that renounced thou shouldst enjoy; lust not after any man's possession.**

## Address for communication

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