

# **CURRICULUM VITAE**

## **ILAVARASI G**



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### **OFFICIAL ADDRESS: ADDRESS:**

### **PERMANENT**

M.V.Sc. Scholar  
Rajiv Gandhi Institute of Veterinary  
Education and Research,  
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Puducherry 605 106.

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### **CAREER OBJECTIVE**

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My interest lies in the field of scientific research and development activities pertaining to animal physiology related to Climate Change Associated Livestock Production while primarily focusing on its impact, adaptation and mitigation strategies with the knowledge of Veterinary Physiology, Biochemistry, Animal nutrition, microbiology and immunology that enables to reduce the stress of animals and sustain livestock production in the changing climatic scenario.

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### **ACADEMIC AND PROFESSIONAL QUALIFICATION**

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<b>SI.NO</b>	<b>Name of Examination</b>	<b>University/ Board</b>	<b>Percentage of marks</b>	<b>Year of passing</b>
1.	M.V.Sc	Pondicherry University	8.23 (OGPA)	2023-2025
2.	BVSc & AH	Pondicherry University	7.69 (OGPA)	2022-2023
3.	Higher Secondary- plus 2[ XII]	Tamil Nadu Board of Secondary Education	93.9	2016-2017
4.	Secondary [ X]	Tamil Nadu Board of Secondary Education	96.8	2014-2015

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### **AWARDS**

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Honour award by Chamber de commerce for obtaining state second rank in SSLC., Tamil subject in the public Examination held during the academic year 2014-2015

**Second prize** for the Best Poster Presentation Award – **Ilavarasi, G.**, Tasmiya Imtiyaz., Thenambigai, S., Balamurugan, N., Silpa, M.V., Devaraj, C., Sahoo, A., Bhatta, R., Sejian, V for the research work entitled “Heat stress induced changes on the quantitative expression patterns of classical heat shock protein genes in Bidri goats” at 5 th Annual conference of Animal Physiology Association & National symposium on “Next Generation Physiological Approaches for Climate-Adaptive Livestock production” organized by Veterinary College, Nandinagar, Karnataka veterinary Animal and Fisheries Sciences University, Bidar from October 09-10,2025.

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## ARTICLES PUBLISHED

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1. Mullakkalparambil Velayudhan S, **Gunasekaran I**, Narasingam B, Ramajothi A, Arulselvam V, Dona Mary E, Ernest Angelin Shyona D, Gajendirane K, Ebenezer Binuni R, Veerasamy S. Impacts of heat stress on growth performance and its mitigation in small ruminants. *Anim Front.* 2025 Aug 6;15(3):6-20. doi: 10.1093/af/vfaf021. PMID: 40808887; PMCID: PMC12342180.
2. **Ilavarasi, G.**, Jacob, N., & Sejian, V. (2025). Impact of Environmental Factors on Blood Disorders in Animals. *Available at SSRN 5289043*.
3. A., Vanmathi, **Ilavarasi G.**, Kamali Mariyasteyp J., Kalaignazhal Gajendirane, Varun A., Venkatesa Perumal S., and Ponnuvel P. 2022. "Care and Management of Newborn Piglets". *Biotica Research Today* 4 (12), 865-68. <https://www.biospub.com/index.php/biorestdtoday/article/view/1799>.

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## SEMINARS / SYMPOSIUMS ATTENDED (NATIONAL AND INTERNATIONAL)

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1. Participated in **TANUVAS 12<sup>th</sup> Clinical Conference on Farm and Companion Animal Practice for Veterinary Students** organized by Tamil Nadu Veterinary and Animal Sciences University, India, on 10<sup>th</sup> & 11<sup>th</sup> August 2022.
2. Participated in **7<sup>th</sup> International UBSDER Scientific Research Congress** February 23-25, 2024/ Ankara, Turkiye.
3. Participated in **ISPEC 14<sup>th</sup> International Conference on Agriculture, Animal Sciences and Rural Development** organized by IKSAD Institute of Economic Development and Social Research of Turkey, on 22-24 March 2024, organized by Ege University & ISPEC Institute
4. Participated in **International Conference of Indian Society for Sheep and Goat Production and Utilization** organized by Rajiv Gandhi Institute of Veterinary Education and Research, India on April 24-26, 2024.
5. Participated in **Ahi evran 4<sup>TH</sup> International Conference on Scientific Research** organized by Kirsehir Ahi Evran University, Kirsehir, Turkiye on April 26-28, 2024

6. Participated in **8<sup>th</sup> International Cukurova Agricultural and Veterinary Congress**, organized by Usak University, Ege University & IKSAD Institute, on 21-23 June 2024 / Adana, Turkiye
7. Participated in **7<sup>th</sup> International Antalya Scientific Research and Innovative Studies Congress**, held on May 11-13, 2024/Antalya, Turkiye
8. Participated in **EJONS 17<sup>th</sup> International Congress “Artificial Intelligence and Society: Theory to Practice”** held on August 21-22, 2024 / Konya, Turkey in collaboration with Necmettin Erbakan University & IKSAD Institute
9. Participated in **12<sup>th</sup> International Conference on Social Sciences & Humanities**, on June 01-02, 2024/ Girne, Turkish Republic of Northern Cyprus
10. Participated in **14<sup>th</sup> International Cankaya Scientific Studies Congress**, on September 07-09, 2024/ Ankara, Turkiye
11. Participated in **8<sup>th</sup> International Scientific Research and Innovation Congress**, on 22-23 June 2024/ BAKU/AZERBAYCAN
12. Participated in **5<sup>th</sup> Annual Conference of Animal Physiology Association & Amp; national symposium** on “Next Generation Physiological Approaches for Climate Adaptive Livestock production” Bidar from October 09-10, 2025.
13. Participated in **7<sup>th</sup> Annual Convention and National Conference of the National Academy of Veterinary Nutrition and Animal Welfare** “Livestock Nutrition and Health Care Translating to Human Wellbeing” jointly organized by ICAR- National Institute of Animal Nutrition and Physiology, Bengaluru – 560 030 and National Academy of Veterinary Nutrition and Animal Welfare, from 16-17 October 2025

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#### **ABSTRACTS IN CONFERENCE (NATIONAL AND INTERNATIONAL)**

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1. **Ilavarasi G**, Dr. S. Kantharaj, Dr. K. Murugavel, Dr. H. Hemalatha **Successful Management of Transmissible Venereal Tumour in a Dog**. In: TANUVAS 12<sup>th</sup> Clinical Conference on Farm and Companion Animal Practice for Veterinary Students organized by Tamil Nadu Veterinary and Animal Sciences University, India, on 10<sup>th</sup> & 11<sup>th</sup> August 2022.
2. **G. Ilavarasi\***, E Binuni Rebez, M.V. Silpa, and V. Sejian **Phenotypic traits governing thermo tolerance in farm animals**. In: 7<sup>th</sup> International UBSDER Scientific Research Congress February 23-25, 2024/ Ankara, Turkiye.

3. **G. Ilavarasi\***, E Binuni Rebez, M.V. Silpa, and V. Sejian **Advances Associated with Recording of Behavioral Responses in Livestock.** In: ISPEC 14<sup>th</sup> International Conference on Agriculture, Animal Sciences and Rural Development, on 22-24 March 2024 / Izmir, Turkiye. organized by Ege University & ISPEC Institute
4. E Binuni Rebez\*, **G. Ilavarasi**, M.V. Silpa, and V. Sejian **Significance of Understanding the Differences in Climate Resilience in Different Indigenous Goat Breeds.** In: ISPEC 14<sup>th</sup> International Conference on Agriculture, Animal Sciences and Rural Development, on 22-24 March 2024 / Izmir, Turkiye organized by Ege University & ISPEC Institute.
5. **G. Ilavarasi\***, E Binuni Rebez, M.V. Silpa, and V. Sejian **Importance of integrated farming system from climate change perspectives.** In: Ahi Evran 4<sup>th</sup> International Conference on Scientific Research, on 26-28 April 2024 / Kirsehir Ahi Evran University, Kirsehir, Turkiye.
6. E Binuni Rebez\*, **G. Ilavarasi**, M.V. Silpa, and V. Sejian **Significance of Precision Livestock Farming and its Application in Sustainable Production.** In: Ahi Evran 4<sup>th</sup> International Conference on Scientific Research, on 26-28 April 2024 / Kirsehir Ahi Evran University, Kirsehir, Turkiye.
7. **Ilavarasi. G\***, Uma Maheswari. D, Silpa. M.V, Ninan. J and Sejian. V **Effect of mineral mixture supplementation on the growth performance and adaptation of non-descript goats reared in hot humid tropical environment.** In: International conference of Indian society for sheep and goat production and utilization, on 24-26 April, 2024 / Rajiv Gandhi Institute of Veterinary Education and Research, India.
8. **G. Ilavarasi\***, E Binuni Rebez, M.V. Silpa, and V. Sejian **Silent Estrus During heat stress and its Management in buffaloes.** In: 8<sup>th</sup> International Cukurova Agricultural and Veterinary Congress, On 21-23 june 2024 / Adana, Turkiye organized by Usak University, Ege University & IKSAD Institute.
9. E Binuni Rebez\*, **G. Ilavarasi**, M.V. Silpa, and V. Sejian **HSP70 as the Cellular Thermometer in Heat Stressed Dairy Cattle.** In: 8<sup>th</sup> International Cukurova Agricultural and Veterinary Congress, on 21-23 june 2024 / Adana, Turkiye organized by Usak University, Ege University & IKSAD Institute.
10. E Binuni Rebez\*, **G. Ilavarasi**, M.V. Silpa, and V. Sejian **Application of Artificial Intelligence in Monitoring the Growth Performance of goats.** In: EJONS 17<sup>th</sup> International Congress “Artificial Intelligence and Society: Theory to Practice” on August 21-22, 2024 / konya, Turkey in collaboration with Necmettin Erbakan University & IKSAD Institute

11. **G. Ilavarasi\***, E Binuni Rebez, M.V. Silpa, and V. Sejian **Sensor based applications to measure Heat Stress in Sheep**. In: 12<sup>th</sup> International Conference on Social Sciences & Humanities, on June 01-02, 2024/ Girne, Turkish Republic of Northern Cyprus
12. **G. Ilavarasi\***, E Binuni Rebez, M.V. Silpa, and V. Sejian **Metabolic Adaptation to Heat Stress Challenges in Livestock**. In: 14<sup>th</sup> International Cankaya Scientific Studies Congress, on September 07-09, 2024/ Ankara, Turkiye
13. E Binuni Rebez\*, **G. Ilavarasi**, M.V. Silpa, and V. Sejian **NON-INVASIVE Methods to quantify heat stress response** In: 14<sup>th</sup> International Cankaya Scientific Studies Congress, on September 07-09, 2024/ Ankara, Turkiye
14. E Binuni Rebez\*, **G. Ilavarasi**, M.V. Silpa, and V. Sejian **Herbal Product Supplements to Ameliorate Heat Stress**. In: 8<sup>th</sup> International Scientific Research and Innovation Congress, on 22-23 June 2024/BAKU/AZERBAYCAN
15. E Binuni Rebez\*, **G. Ilavarasi**, M.V. Silpa, and V. Sejian **Role of Molecular Chaperones in Inducing Climate Resilient Potential to Goat**. In: 7<sup>th</sup> International Antalya Scientific Research and Innovative Studies Congress, May 11-13, 2024/Antalya, Turkiye
16. Balamurugan, N., Tasmiya Imtiyaz., **Ilavarasi**, G., Thenambigai, S., Silpa, M.V., Devaraj, C., Sahoo, A., Bhatta, R., Sejian, V (2025). **Influence of heat stress on the expression pattern of HSP70 gene in different parts of digestive tract in Bidri goat breed**. In: 5<sup>th</sup> Annual conference of Animal Physiology Association & National symposium on “Next Generation Physiological Approaches for Climate Adaptive Livestock production” organized by Karnataka veterinary Animal and Fisheries Sciences University, Bidar from October 09-10,2025.
17. Thenambigai, S., Tasmiya Imtiyaz., Balamurugan, N., **Ilavarasi**, G., Silpa, M.V., Devaraj, C., Sahoo, A., Bhatta, R., Sejian, V (2025). **Heat stress influence on the expression patterns of different growth governing genes in Bidri goats**. In 5<sup>th</sup> Annual conference of Animal Physiology Association & National symposium on “Next Generation Physiological Approaches for Climate-Adaptive Livestock production” organized by Karnataka veterinary Animal and Fisheries Sciences University, Bidar from October 09-10,2025.
18. **Ilavarasi**, G., Tasmiya Imtiyaz., Thenambigai, S., Balamurugan, N., Silpa, M.V., Devaraj, C., Sahoo, A., Bhatta, R., Sejian, V (2025). **Heat stress induced changes on the quantitative expression patterns of classical heat shock protein genes in Bidri goats**. In: 5<sup>th</sup> Annual conference of Animal Physiology Association & National symposium on “Next Generation Physiological Approaches for Climate-Adaptive

Livestock production” organized by Karnataka veterinary Animal and Fisheries Sciences University, Bidar from October 09-10,2025.

19. Tasmiya Imtiyaz, **Ilavarasi, G.**, Thenambigai, S., Balamurugan, N., Silpa, M.V., Devaraj, C., Sahoo, A., Bhatta, R., Sejian, V. **Influence of Heat stress on the quantitative expression patterns of classical genes governing reproductive function in Bidri goats.** In: 5<sup>th</sup> Annual conference of Animal Physiology Association & National symposium on “Next Generation Physiological Approaches for Climate-Adaptive Livestock production” organized by Karnataka veterinary Animal and Fisheries Sciences University, Bidar from October 09-10,2025.
20. **G. Ilavarasi**, N. Balamurugan, Tasmiya Imtiyaz, C. Devaraj, Ninan Jacob, Nicola Lacetera, A. Sahoo and V. Sejian. **Effect of Heat Stress and Herbal Supplements on the Physiological Traits in Nandidurga Goats.** In 7<sup>th</sup> Annual Convention and National Conference of the National Academy of Veterinary Nutrition and Animal Welfare “Livestock Nutrition and Health Care Translating to Human Wellbeing” jointly organized by ICAR- National Institute of Animal Nutrition and Physiology, Bengaluru – 560 030 and National Academy of Veterinary Nutrition and Animal Welfare, from 16-17 October 2025
21. **G. Ilavarasi**, N. Balamurugan, Tasmiya Imtiyaz, C. Devaraj, Ninan Jacob, Nicola Lacetera, A. Sahoo and V. Sejian. **Assessing the Influence of Herbal Feed Additive Supplementation on Skin Temperatures in Heat Stressed Nandidurga Goats.** In 7<sup>th</sup> Annual Convention and National Conference of the National Academy of Veterinary Nutrition and Animal Welfare “Livestock Nutrition and Health Care Translating to Human Wellbeing” jointly organized by ICAR- National Institute of Animal Nutrition and Physiology, Bengaluru – 560 030 and National Academy of Veterinary Nutrition and Animal Welfare, from 16-17 October 2025
22. N. Balamurugan, **G. Ilavarasi**, Tasmiya Imtiyaz, C. Devaraj, A. Sahoo 1 and V. Sejian. **Influence of Heat Stress and Herbal Feed Additives on the Major Carcass Traits, Non-carcass Components and Edible Offals in Nandidurga goats.** In 7<sup>th</sup> Annual Convention and National Conference of the National Academy of Veterinary Nutrition and Animal Welfare “Livestock Nutrition and Health Care Translating to Human Wellbeing” jointly organized by ICAR- National Institute of Animal Nutrition and Physiology, Bengaluru – 560 030 and National Academy of Veterinary Nutrition and Animal Welfare, from 16-17 October 2025

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#### **LEAD PAPER (NATIONAL)**

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1. **Ilavarasi, G.**, Balamurugan, N., Tasmiya Imtiyaz., Devaraj, C., Sahoo, A., Sejian, V (2025). **Strategies to Ensure Sustainable Small Ruminant Farming System in the**

**Changing Climate Scenario.** in Technical session IV: Stress Physiology and Epigenetic Adaptations to Climate Change at 5 th Annual conference of Animal Physiology Association & National symposium on “Next Generation Physiological Approaches for Climate-Adaptive Livestock production” organized by Department of Veterinary Physiology and Biochemistry, Veterinary College, Nandinagar, Karnataka veterinary Animal and Fisheries Sciences University, Bidar from October 09-10,2025.

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#### **SHORT COURSE AND TRAINING ATTENDED (NATIONAL AND INTERNATIONAL)**

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2. Completed **Animal Birth Control Surgery Protocols** at the **WVS International Training Centre**.
3. Completed two days training on **PCR & Real time PCR for Diagnostics** at **Centre for Translational Research-cum-Central Instrumentation Facility**, organized by RIVER, Puducherry.

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#### **PROFESSIONAL AFFILIATION**

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1. Life member of Animal physiologist association
2. Life member of Society for Animal Physiologists of India
3. Student Member in The Webinar Vet, UK
4. Life member of ISSGPU
5. Member of research gate

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#### **BOOK CHAPTERS**

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1. Kalaignazhal, G., Vanmathi, A., Rebez, B.E., Ilavarasi, G., Silpa, M.V., Tej, N.K., Dominic, G. and Sejian, V. (2024). Climate Change and Heat Stress Significance. In: Summer Management of Heat Stress and Associated Diseases to Sustain Dairy Cattle Production. Raghay, R., George, D., Silpa, M.V., Rajaganapathy, V., Sejian, V (Eds)
2. Silpa, M.V., Kalaignazhal, G., Vanmathi, A., Kamali, J.M., Deepika, A., Rebez, B.E., Ilavarasi, G., and Sejian, V. (2024). Different Climate Resilient Farmer Friendly Technologies for Dairy Cattle. In: Summer Management of Heat Stress and Associated Diseases to Sustain Dairy Cattle Production. Raghay, R., George, D., Silpa, M.V., Rajaganapathy, V., Sejian, V (Eds)
3. M. V. Silpa, G. Ilavarasi, Dona Mary Eldhose, E. Anjelin Shyona Darwin and V. Sejian, (2025). Climate resilient livestock production: current scenario and way

forward. In: Livestock Reproduction Management under impending Climate Change. Eaknath B. Chakurkar, Rafeequ R. Alyethodi, Perumal Ponraj (Eds)

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## TECHNICAL SKILLS

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### CLINICAL SKILLS:

1. Well versed in animal birth control surgeries
2. Assisted veterinarians in restraining the animals.
3. Examined and treated all patients by taking vital parameters.
4. Offering treatment to animals by administering inoculations, subcutaneous fluids, and dispensing medications.
5. Administered vaccinations to animals.
6. Assisted veterinarians in the examination of animals and handled various technical tasks.
7. Advised about feeding, deworming, and vaccination schedules.
8. Assisted in surgical preparation of patients.
9. Assisted in pre- and post-anesthetic care of patients.
10. Helped in taking X-Rays of patients.
11. Veterinarians in castration and spaying procedures.

### LABORATORY SKILLS:

1. Collection of samples and processing them for confirmative diagnosis of diseases.
2. Performed various Plate pouring, media preparation, and aseptic techniques.
3. Performed post-mortem examinations on various farm and pet animals.
4. Well versed in RNA isolation from blood and other tissues
5. Performed Gel electrophoresis
6. Performed q-PCR
7. Performed ELISA

### FARM SKILLS:

1. **Reared 200 Country Chicken in deep litter system** as a part of the entrepreneurship training program.
2. Hand milking of a crossbred jersey cow.
3. Taking care of feeding and managemental practices of various farm animals
4. Administered vaccinations and treated the farm animals.

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## **PROFESSIONAL EXPERIENCE**

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1. One year internship experience at Veterinary Dispensaries, Livestock Farm, NGO and Zoo
2. Entrepreneurship Project on Country Chicken Production
3. Worked as a veterinary doctor in an NGO named (Naeyam veterinary welfare trust, Neyveli, Tamil Nadu)

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## **COMPUTER KNOWLEDGE**

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1. MS Word, MS PowerPoint, MS Excel, SPSS, R, R Packages

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## **EXTRACURRICULAR ACTIVITIES**

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1. Completed Type Writing Junior Grade
2. Rotaract Club member
3. Student reporter of the Annual College Magazine (2020).
4. Participated and won prizes in several cultural and literary competitions at school.
5. Participated and won prizes in several cultural, literary, and sports competitions at college.
6. Volunteer in the “**Farm Fest**” organized by Animal Husbandry Department, Puducherry between February 7<sup>th</sup>-8<sup>th</sup> 2020
7. Participated in the slogan writing competition on the occasion of “**World Zoonoses Day**” on July 6, 2020, organized by the Department of Veterinary Public Health and Epidemiology.
8. Volunteer in NSS and participated in several public service programs, awareness programs, and in vaccination campaigns.
9. Participated in **Quiz competition** conducted on the occasion of foundation day of **Indian Society of Animal Production and Management (ISAPM)** on 01.08.2024 at Rajiv Gandhi Institute of Veterinary Education and Research.

### **References:**

#### **1. Dr. V. Sejian, M.V.Sc., Ph.D., Post Doc (USA & Australia)**

Principal Scientist,

ICAR-National Institute of Animal Nutrition and Physiology, Bengaluru, India,

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**2. Dr. M. V. Silpa, M.V.Sc., Ph.D., (Germany)**

Assistant Professor,

Rajiv Gandhi Institute of Veterinary Education and Research, Puducherry, India

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