BIODATA



Name	:	Dr. E. Prabu
Designation	:	Assistant Professor
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Qualification	:	M.F.Sc., Ph.D.
Field of Specialization	:	Fish Nutrition
Major	:	Aquaculture
Specializing field	:	Feed formulation, Amino acid nutrition, Nutrigenomics
Experience (in years)	:	Four years (As on 01.03.2025)

Ongoing projects: 5

Sl.No.	Title of the Project	Year	PI & Co- PI of the Project	Funds (in Rs)	Funding Agency
1	Effects of Dietary *Saccharomyces cerevisiae* Fermentation Product and Phyto additives on Growth Performance, Nutrient Utilization and Health Status of Pacific White Shrimp, *Penaeus vannamei*	2024	**PI: Dr.E.Prabu** Co-PI: Dr.N.Felix, Dr.P.Chidambaram Dr.A.Uma	**14,94,324**	USAID
2	Effects of NagroWall on growth, whole-body composition, and disease resistance in Pacific white shrimp, Penaeus vannamei	2024	**PI: Dr.E.Prabu** Co-PI: Dr.P.Chidambaram	**1,07,000**	Provet Pharma Pvt Ltd., Chennai

3	Shrimp Farming at DIVA, Muttukadu	2022	**PI: Dr.E.Prabu** CO-PI: Dr.Mir Ishfaq Nazir	8,00,000	TNJFU
4	TN-IAMP: Component 3: Formulation of species specific fish feed using locally available low cost ingredients (Lower Palar and Kallar basin)	2019 - 2025	**Co-PI: Dr.E.Prabu**	38,80,000	World Bank
5	"Efficacy of the functional feeds of M/s. Grobest feeds to mitigate *Enterocytozoon hepatopenaei* (EHP) infection in *Penaeus vannamei*"	2025	Dr.A.Uma **Co-PI: Dr.E.Prabu**	8,16,000	Grobest Feeds Corporation India Pvt. Ltd.,

Completed projects: 3

Sl.No.	Title of the Project	Year	PI & Co- PI of the Project	Funds (in Rs)	Funding Agency
1	Institute of Paraprofessional Aquaculture Technology at Muttukadu, Chennai	2018	PI: Dr. N. Felix, Co-PI: **Dr. E. Prabu**	8,80,00,000	NABARD
2	Effects of algae meal on growth, whole-body composition, histological and haemato-biochemical responses of Pacific white shrimp, *Penaeus vannamei* and GIFT strain of Nile tilapia, *Oreochromis niloticus*	2021	PI: Dr. N. Felix, Co-PI: **Dr. E. Prabu** Dr.A.Uma	3,82,000	Algatomic Technologies Pvt Ltd., Namakkal
3	Development of cost-efficient feeds and farming practices of Asian Seabass for fish farmers of Tamil Nadu at Directorate of Incubation and Vocational Training in Aquaculture, TNJFU, Muttukadu	2021	PI: Dr. Mir Ishfaq Nazir Co-PI: Dr. N. Felix, **Dr. E. Prabu**	80,00,000	NADP-RKVY

Research Publications in Scopus Indexed Journals

- **Prabu, E.,** Felix, N. and Uma A., 2021. Optimizing amino acid balance in fish meal-free diets for GIFT strain of Nile tilapia (*Oreochromis niloticus*) by deletion method. ***Aquaculture Nutrition.*** 27 (4), 1031–1041. https://doi.org/10.1111/anu.13244

- **Prabu, E.,** Felix, N. and Uma, A., 2021. Dietary arginine requirement in diets of GIFT strain of Nile tilapia, *Oreochromis niloticus*: Effects on growth performance, whole-body composition, growth-related gene expression and haemato-biochemical responses. ***Aquaculture Research***, 52 (10), 4816-4828. https://doi.org/10.1111/are.15315

- **Prabu, E.,** Felix, N., Uma, A., Ahilan, B. and Antony, C., 2020. Metabolic responses of juvenile GIFT strain of Nile tilapia (*Oreochromis niloticus*) to dietary L-tryptophan supplementation. ***Aquaculture Nutrition***, *26* (5), 1713-1723. https://doi.org/10.1111/anu.13122

- **Prabu, E.,** Felix, N., Uma, A. and Praveenraj, J., 2020. Effects of dietary L-lysine supplementation on growth, body composition and muscle-growth-related gene expression with an estimation of lysine requirement of GIFT tilapia. ***Aquaculture Nutrition*****,** 26(2), 568-578. https://doi.org/10.1111/anu.13018

- Prabu, E., Felix, N., Sivasankar, S., Thirumalai, A., Uma, A., Manikandan, K., Sathishkumar, G. and Thiruvasagam, T., 2025. Effects of dietary algae meal supplementation on growth, whole-body composition, histological and immune responses of Pacific white shrimp, *Penaeus vannamei*. **Annals of Animal Science.** https://doi.org/10.2478/aoas-2025-0007

- **Prabu, E.,** Felix, N., Ahilan, B., Antony, C. and Uma, A., 2019. Effects of dietary supplementation of DL-methionine on growth and whole body amino acid profile of genetically improved Farmed Tilapia. ***Journal of Coastal Research***, 86, 90-95. https://doi.org/10.2112/SI86-013.1

- **Prabu, E.,** Rajagopalsamy, C.B.T., Ahilan, B., Jeevagan, J.M.A. and Renuhadevi, M., 2018. Effect of dietary supplementation of biofloc meal on growth and survival of GIFT tilapia. ***Indian Journal of Fisheries***, 65(1), 65-70.

- Uma, A., Philominal, P., **Prabu, E.** and Musthafa, M.S., 2022. Dietary *Bougainvillea glabra* leaf meal on growth, haemato-biochemical responses and disease resistance in Nile tilapia, *Oreochromis niloticus* against *Enterococcus faecalis.* Aquaculture, 549, p.737806.

- Sathishkumar, G., Felix, N. and **Prabu, E.,** 2021. Growth performances and nutrient utilization efficiency of GIFT tilapia reared in floating net cages fed with bioprocessed silkworm pupae meal. ***Aquaculture Nutrition***, 27 (6), 2786-2797. https://doi.org/10.1111/anu.13408

- Sathishkumar, G., Felix, N. and **Prabu, E.,** 2021. Effects of dietary protein substitution of fish meal with bioprocessed poultry by-product meal on growth performances, nutrient utilization, whole-body composition and haemato-biochemical responses of GIFT tilapia reared in floating cages. ***Aquaculture Research*****,** 52 (11), 5407-5418. https://doi.org/10.1111/are.15410

- Sudha, C., Ahilan, B., Felix, N., Uma, A. and **Prabu, E.,** 2022. Effects of dietary protein substitution of fishmeal with black soldier fly larval meal on growth and physiological responses of juvenile striped catfish, *Pangasianodon hypophthalmus*. **Aquaculture Research**, 53(6), pp.2204-2217. https://doi.org/10.1111/are.15739

- Sudha, C., Ahilan, B., Felix, N., Uma, A., Chidambaram, P. and **Prabu, E.,** 2022. Replacement of fish oil with black soldier fly larvae oil and vegetable oils: Effects of growth, whole-body fatty acid profile, digestive enzyme activity, haemato-biochemical responses and muscle growth-related gene expression of juvenile striped catfish, *Pangasianodon hypophthalmus*. **Aquaculture Research**, 53(8), pp.3097-3111. https://doi.org/10.1111/are.15823

- Kamalii, A., Antony, C., Ahilan, B., Uma, A. and **Prabu, E.,** 2022. Dietary protein replacement of fish meal with black soldier fly larvae meal: Effects on growth, whole-body composition, digestive enzyme activity, muscle-growth-related gene expression and haemato-biochemical responses of juvenile goldfish, Carassius auratus. **Turkish Journal of Fisheries and Aquatic Sciences**, 23(2). https://doi.org/10.4194/TRJFAS21837

- Felix, N., **Prabu, E.** and Upadhyay, A., 2020. Effective utilisation of poultry byproduct meal as an ingredient in the diet of Genetically Improved Farmed Tilapia (GIFT), cultured in reservoir cages in Tamil Nadu, South India. ***Indian Journal of Fisheries*****,** 67(1). https://doi.org/10.21077/ijf.2019.67.1.93574-12

- Upadhyay, A., Felix, N. and **Prabu, E.,** 2019. Rapeseed meal as an alternative protein source in the diet of GIFT tilapia cultured in cages in reservoir. ***Indian Journal of Fisheries,*** 66(3),69-75. https://doi.org/10.21077/ijf.2019.66.3.89076-9

Honors and Awards

Sl.No.	Name of the award/honour	Awarding body	Purpose of award
1	Best Young Researcher Award - 2024	TNJFU	Research contribution to TNJFU in 2024
2	Dr.T.M.Samocha Gold Medal for Best Thesis for Ph.D. (Aquaculture)	TNJFU	Best Ph.D. (Aquaculture) in 2017-18 batch
3	Chancellor of TNJFU, Shri Banwarilal Purohit Gold Medal for Best Aquaculture/ Fisheries Technologist at Ph.D. Programme	TNJFU	Best Ph.D. (Aquaculture) in 2017-18 batch
4	G.VICTORIA – SUGAFELIX Vice-Chancellor Gold Medal for the Best Aquaculture/ Fisheries Technologist Award	TNJFU	Best Ph.D. (Aquaculture) in 2017-18 batch
5	Best oral presentation award	TNAU and AIASA at Coimbatore, Tamil Nadu	Best oral presentation of research article
6	Best Paper Presentation Award	TNJFU & Agricultural Scientific Tamil Society	Best oral presentation of research article
7	Best Paper Award	TNJFU & Agricultural Scientific Tamil Society	Best research article

General articles

SL.NO	AUTHORS	YEAR	TITLE	JOURNAL
1.	**Prabu, E.,** Rajagopalsamy, C.B.T., Ahilan, B., Jeevagan, I.J.M.A. and Renuhadevi, M	2019	Tilapia–An Excellent Candidate Species for World Aquaculture: A Review	Annual Research & Review in Biology
2.	**Prabu, E.,** Felix, N., Ahilan, B., Uma, A. and Antony, C.,	2018	Cage culture of tilapia with respect to nutrition and feeding	Journal of Aquaculture in the Tropics
3.	**Prabu, E.,** Felix, N. and Kannan, B.	2018	Green chromide – A preeminent species for Brackishwater aquaculture	Aqua Star
4.	**Prabu, E.** and Santhiya, A.A.V.,	2017	Aquaponics and their role in aquaculture industry	Journal of Aquaculture in the Tropics
5.	**Prabu, E.,** Rajagopalsamy, C.B.T., Ahilan, B., Santhakumar, R., Jeevagan, I.J.M.A. and Renuhadevi, M.,	2017	An overview of anti-nutritional factors in fish feed ingredients and their effects in fish	Journal of Aquaculture in the Tropics
6.	**Prabu, E.** and Gokul, S.,	2017	Mangroves: an incredible ecosystem for sustainable fisheries	Journal of Aquaculture in the Tropics
7.	**Prabu, E.,** Rajagopalsamy, C.B.T., Ahilan, B., Jeevagan, I.J.M.A. and Renuhadevi, M.,	2017	Biofloc technology–An emerging trend in sustainable aquaculture: A review	Journal of Aquaculture in the Tropics
8.	**Prabu, E.,** Felix, S., Felix, N., Ahilan, B. and Ruby, P.,	2017	An overview on significance of fish nutrition in aquaculture industry	International Journal of Fisheries and Aquatic Studies
9.	**Prabu,** E. and Santhiya, A.A.V.,	2016	An overview of bioremediation towards aquaculture	Journal of Aquaculture in the Tropics

10.	Boobalan, S., **Prabu, E.,** Manikandan, K. and Jeyaprakash, S	2020	Nutrigenomics in Aquaculture Nutrition	Aqua star
11.	Bhuvaneshwaran, T., Sanjay, G., Jayakumar, N., Ahilan, B., Felix, N. and **Prabu, E.,**	2019	Potentiality of earthworm as a replacement for fish meal and its role in aquaculture	Journal of Aquaculture in the Tropics
12.	Yuvraj, P., **Prabu, E.** and Kannan, B	2019	Aquatic weed and its management in aquaculture production system	Aqua star
13.	Manikandan, K., Felix, N., **Prabu, E.,** Sudhan, C. and Kannan, B.,	2018	Impacts of heavy metals in the coastal waters of Tamilnadu	Journal of Aquaculture in the Tropics
14.	Kamalii, A., **Prabu, E.,** Ruby, P. and Ahilan, B.	2018	Climate change impacts and mitigations	Aqua Star
15.	Kamalii, A., Ahilan, B., Felix, N., Kannan, B. and **Prabu, E.,**	2018	Applications of nanotechnology in fisheries and aquaculture	Journal of Aquaculture in the Tropics
16.	Ruby, P., Ahilan, B. and **Prabu, E.,**	2018	Periphyton based aquaculture: a review	Journal of Aquaculture in the Tropics
17.	Kamalii, A., **Prabu, E.,** Ruby, P. and Ahilan, B.,	2018	Advanced developments in fish vaccination	Journal of Aquaculture in the Tropics
18.	Renuhadevi, M., Ahilan, B., Rajagopalsamy, C.B.T., Jeevagan, I.J.M.A. and **Prabu, E.,**	2017	Nutraceuticals in aqua feed	Journal of Aquaculture in the Tropics

Technologies Developed

Sl. No.	Particulars of new technology/product	Year	Title of research project out of which	Funding agency
1.	Flower horn feed	2022	Development of cost-efficient feed for enhancing the production of freshwater fish species	NADP
2.	Gold fish feed	2022	Development of cost-efficient feed for enhancing the production of freshwater fish species	NADP
3.	Growout feed for Pangasius, Indian Major Carps and Tilapia	2022	Development of cost-efficient feed for enhancing the production of freshwater fish species	NADP
4.	Mineral mixture for shrimp culture	2024	Revolving fund scheme on shrimp farming at DIVA, Muttukadu	TNJFU
5.	Murrel feed	2024	TN-IAMP – Component 3: Formulation of species-specific feed using locally available low cost ingredients	World bank
6.	Seabass feed	2024	Development of cost-efficient feeds and farming practices of Asian Seabass for fish farmers of Tamil Nadu at Directorate of Incubation and Vocational Training in Aquaculture, TNJFU, Muttukadu	NADP