

Research projects sanctioned:

Title of the Project	Principal Investigator(s)	Funding Agency	Amount (in lakh)	Status
Utilization of water resources for fish & shrimp culture in Haryana	OI and all faculty	State scheme	4.00 (2019-20)	Sanctioned
Aquaponics as an alternate farming system	Rachna Gulati Gajender Singh V.K. Batra	Gap-Filling Ad-Hoc Research Project	9.96	Sanctioned in July, 2019

Research projects submitted

Sr.No.	Title of the Project	Principal Investigator(s)	Amount (in lakh)
1	Establishment of Fish Hatchery Unit For Quality Seed Production of Indian Major Carps	Dharambir Singh Rachna Gulati	78.80
2	Pilot Scale Demonstration Project on Recirculation Aquaculture Systems (RAS)	Rachna Gulati Dharambir Singh	79.27

Research achievements

Fish Seed Production



Fish and Prawn Culture



Indian Major Carps



Pangasius



Desi Magur



Fresh water Prawn culture



Brackish water Prawn



Breeding Happa



Milk fish



Grey Mullet



Pearl spot

Ornamental Fish





Aquaponics system

Aquaponics as an alternate farming system

Fish: Rohu and Koi carp

Vegetable crops: Cauliflower, Red cabbage, Chilli

Nutrient rich water from fish aquarium is utilised by vegetable crops



Fish Diseases and Parasites



Descaling and Hemorrhage in Mrigal



Hemorrhage and ulcer in Fish



Ulcers in Rohu



EUS and tail rot in Rohu



Bacterial, EUS and ulcer in Desi Magur



Argulus parasite



Bacterial and parasitic disease

Effect of Heavy Metals on Fish

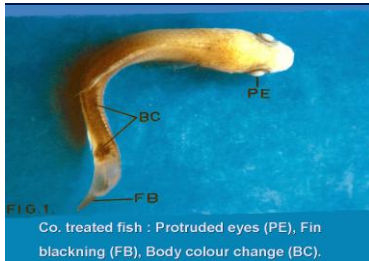


FIG. 1.
Co. treated fish : Protruded eyes (PE), Fin blackening (FB), Body colour change (BC).

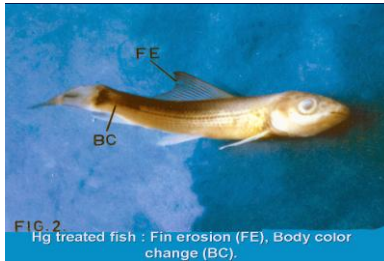


FIG. 2.
Hg treated fish : Fin erosion (FE), Body colour change (BC).



Effect of Arsenic

Effect of Cobalt

Effect of Mercury



Effect of Zinc



Effect of Cadmium

Effect of Pesticide

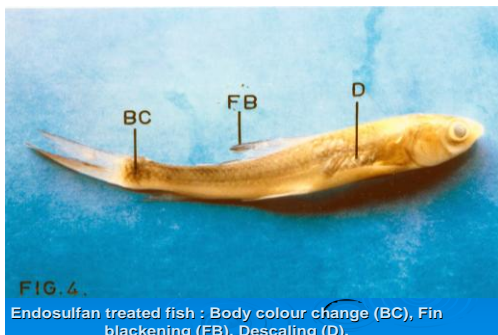


FIG. 4.
Endosulfan treated fish : Body colour change (BC), Fin blackening (FB), Descaling (D).

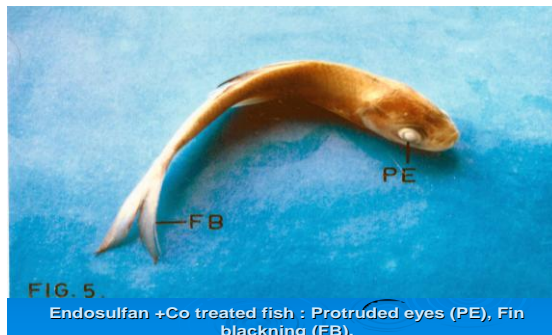


FIG. 5.
Endosulfan +Co treated fish : Protruded eyes (PE), Fin blackening (FB).