



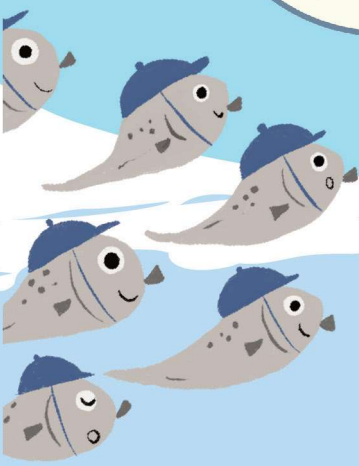
# Virtual 13<sup>th</sup> Asian Fisheries and Aquaculture Forum

Sustainable Fisheries, Smart Aquaculture, Splendid Future

## Program and Abstracts



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## T8-O-04\*

### Growth of tomato (*Solanum lycopersicum*) plant in floating raft aquaponics system

<sup>1</sup>V. K. Ujjania, <sup>2</sup>N.C. Ujjania and <sup>3</sup>B.K. Sharma

<sup>1</sup>Division of Aquaculture, ICAR-CIFE, Mumbai (Maharashtra), India

<sup>2</sup>Department of Aquatic Biology (VNSGU), Surat (Gujarat), India

<sup>3</sup>Department of Aquaculture, COF (MPUAT), Udaipur (Rajasthan), India

Presenting author: vikasujjania@gmail.com

The present paper is elucidated the growth of tomato (*Solanum lycopersicum*) plant in the floating raft aquaponics system. In this experiment the tomato seedlings were transplanted in aquaponics unit with the help of thermocoal cup and floating sheet which were grown up for 60 days. On the basis of stocked fish species fingerlings in 400 L capacity clean and disinfected circular tanks the experiment was categorized in two treatments (T<sub>1</sub> tomato plant with rohu fish and T<sub>2</sub> tomato plant with tilapia fish) in 10 replications. During the present study, the important plant growth parameters including net length gain, shoot length and root length were measured while total number of leaves was counted. The findings of present study on growth parameters like net length gain (11.880 and 8.886 cm), shoot

166

Quick Links: [\[Table of Contents\]](#) [\[Day 1 – 31<sup>st</sup> May\]](#) [\[Day 2 – 1<sup>st</sup> June\]](#) [\[Day 3 – 2<sup>nd</sup> June\]](#)



## Topic 8 : Artificial Intelligence, Aquaponics and Aquavoltaics

length (10.521 and 6.053 cm), root length (5.900 and 4.269 cm) and increment in leaves number (12 and 10) were noted in T<sub>1</sub> and T<sub>2</sub> respectively. On the basis of these findings it can be concluded that tomato plant was healthy and plant growth was satisfactory in both treatments. This also concluded that aquaponics system could be the alternative of food and sustainable vegetable production system.