

Introduction

Zebrafish Facility



The IMCB zebrafish facility covers an area of approximately 400 sq meters with state-of-the-art aquaculture facilities from Germany (Schwarz) and the US (AHAB). The facility boasts a capacity of about 8000 tanks occupying 3 different rooms: 2 facility rooms and a quarantine section. Water flows continuously to maintain oxygen levels and is filtered through biological filters and treated with UV light to kill bacteria. Water quality is monitored 3 times a week. The zebrafish housed in this facility are fed three times daily with a mixture of dry flake food and live brine shrimp. Adult fish are kept in a fixed 14 hour light, 10 hour dark cycle.

Annual inspection from Agri-Food and Veterinary Authority of Singapore and quarterly inspection from Biological Resource Centre ensure that we adhere strictly to the stipulated animal welfare guidelines. In addition, this facility is accredited by the Association for Assessment and Accreditation of Laboratory Animal Care International.

We focus principally on breeding and maintaining a wide variety of zebrafish strains for IMCB researchers. Other services include import and export zebrafish strains, fish sperm cryopreservation and *in vitro* fertilization, providing wild type zebrafish and embryos for IMCB researchers as well as other research institutes in the Biopolis. All equipment necessary for use of the zebrafish in research such as microinjectors, micromanipulators and a broad range of microscopes are also available in the facility.

