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(54) Title: A METHOD OF GENERATING STERILE AND MONOSEX PROGENY

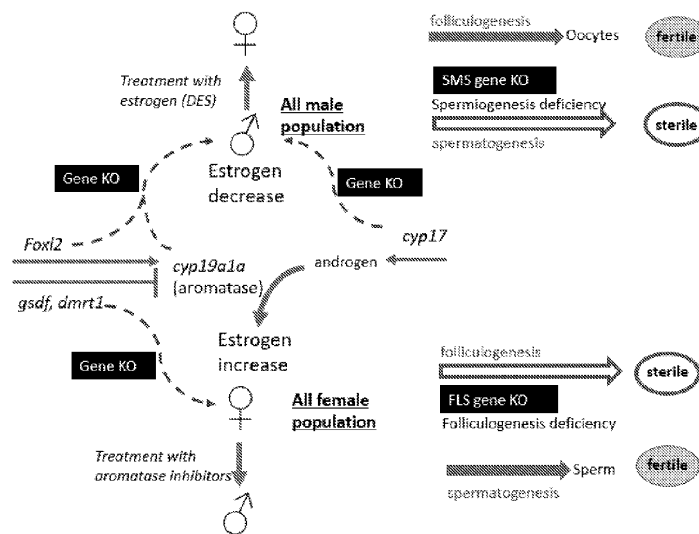


Fig. 1

(57) Abstract: The disclosure provides a method of generating a sterile sex-determined fish, crustacean, or mollusk. The method comprises breeding (i) a fertile homozygous mutated female fish, crustacean, or mollusk having at least a first mutation and a second mutation with (ii) a fertile homozygous mutated male fish, crustacean, or mollusk having at least the first mutation and the second mutation to produce the sterile sex-determined fish, crustacean, or mollusk. The first mutation disrupts one or more genes that specify sexual differentiation, the second mutation disrupts one or more genes that specify gamete function, and the fertility of the fertile homozygous female fish, crustacean, or mollusk and the fertile homozygous mutated male fish, crustacean, or mollusk has been rescued. The disclosure also provides methods of making broodstock for use in producing sterile sex-determined fish, crustacean, or mollusks, as well as the broodstock itself.

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