

Zebrafish Disease Models: Supporting Drug Discovery and Toxicology

New York City, New York Oct 10, 2022 ([Issuewire.com](https://www.issuewire.com)) - Zebrafish platform, the mature division of Creative Biogene, is a biotech institute specializing in zebrafish services under Good Laboratory Practice. Based on high technical expertise and top-class research facilities, Creative Biogene is dedicated to developing and validating cost-effective gene editing services, toxicity, and efficacy assays, as well as zebrafish disease models that can be used in preclinical stages. Recently, Creative Biogene announced the release of its [zebrafish disease models](#) which can support drug discovery and toxicology, and accelerate the research in therapeutic/disease areas.

Creative Biogene has established a wide range of working zebrafish models to support multiple therapeutic/disease areas. Our zebrafish model provides insights into human disease pathogenesis and associated drug discovery and toxicology and allows the evaluation of novel small molecule inhibitors. Creative Biogene has used various methods to model human genetic diseases in zebrafish.

Creative Biogene has established more than 50 genetically engineered zebrafish human cancer models that closely resemble their human counterparts at the histological and/or genomic level. Zebrafish cancer models accelerate the discovery of new mechanisms driving human cancer and identify new drugs for clinical trials. The vast majority of human tumors can be modeled in zebrafish using a combination of chemotherapy, genetic techniques, and tumor cell xenotransplantation.

Creative Biogene has established a series of zebrafish diabetes models, including induced zebrafish diabetes models, targeted gene ablation zebrafish diabetes models, transgenic zebrafish diabetes models, and mutant zebrafish diabetes models. Creative Biogene's rich and diverse zebrafish diabetes model provides special advantages for the study of metabolic diseases and is committed to improving the understanding of the pathogenesis of diabetes through this model and providing new targets for diabetes treatment.

In addition, Creative Biogene has developed a series of zebrafish models to study obesity, including food-induced zebrafish obesity models, transgenic zebrafish obesity models, and mutant zebrafish obesity models. Creative Biogene's zebrafish model has very high utility in mechanistic studies of obesity and lipid metabolism, drug testing, and drug discovery, aiming to help discover the anti-obesity activity of drug candidates.

Creative Biogene can provide customized zebrafish uremic model construction services to monitor the effects of various compounds on zebrafish uremic models. The zebrafish model can be divided into eight diseases, including sphingolipidosis, mucopolipidosis, neuronal ceroid lipofuscinosis, integral membrane proteinopathy, glycogen storage disease, glycoproteins, mucopolysaccharide deposition disorders, and lysosome-related organelle disorders.

"We have applied CRISPR/Cas9 system as the preferred tool for generating zebrafish stable models of human genetic diseases." said Marcia Brady, the marketing director of Creative Biogene, she also added, "Our services can help you predict the safety of new compounds during drug development, and the results provide the basis for internal decision-making."

About Creative Biogene

Creative Biogene is a top-of-its-kind company that holds a leading position and is committed to

accelerating the development of human science through biotechnology, offering innovative technologies, products, unique tools, and services for research discoveries and product development. With more than 10 years of experience and in-house experts, Creative Biogene has become a well-recognized industry leader to support researchers worldwide.

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