Zebrafish cancer research post-doctoral position - University of Mississippi Medical Center (UMMC, Jackson, MS, USA)

The Gibert laboratory within the Dept of Cell and Molecular Biology at the University of Mississippi Medical Center (UMMC, Jackson, MS, USA), (https://www.umc.edu/som/Departments%20and%20Offices/SOM%20Departments/Cell%20and%20Molecular%20Biology/For%20Faculty/Yann%20Gibert.html) (https://zfin.org/action/profile/view/ZDB-LAB-120124-1) has an exciting opportunity for a PhD levels postdoctoral scientist. A two-year (extendable) fully funded (minimum NIH scale) postdoctoral position (junior or senior) is available now in zebrafish cancer research. The overall goal of the lab is focus on the understanding of the molecule mechanisms that underlie cancer development using the zebrafish as a vertebrate model organism. Research in the Dept of Cell and Molecular Biology at the Cancer Center and Research Institute investigates a wide variety of Human cancers using genetics, physiological, molecular and structural biology techniques. We employ cellular (including primary cell and human iPSC derived cells) and genetic altered zebrafish models to determine the causal mechanism of these diseases. The overarching goal is translation of the laboratory findings to the biomarkers and/or new therapeutic approaches to be used in the clinic.

We are a highly collaborative lab with close collaboration with faculty at UMMC. We are looking for a candidate who can work independently and also collaborate with diverse groups. S/he will have the opportunity to learn and apply a wide set of molecular biology genetics, pharmacological and physiological techniques for the study human cancer in zebrafish. There will be opportunities for development of computational skills of high throughput data. This position offers a rich opportunity to engage in, present and publish research at the frontier of biotech fields related to health and medicine, and will prepare the candidate for the next stage of their career, either in academia or industry.

The successful candidate must have a PhD or equivalent and solid understanding of cancer biology and zebrafish development and genetics (including CRISPR-cas9 technique) exemplified by publication in peer-reviewed journals and past experiences

The Dept of Cell and Molecular Biology provides outstanding training opportunities and career development at the post-doctoral level in a highly scientifically stimulating and collaborative environment. UMMC has a large campus with multiple schools (graduate, medical, dental, allied-health, nursing, etc.). Our lab is well-equipped, with strong core facilities available. We have a state-of-the art Techniplast aquatic with dedicated personals to look after the fish and embryos so you can focus on experiments.

The Gibert laboratory is currently working on several cancer related projects. Our previous work has identified novel chemotherapeutic agents that are currently studied in zebrafish. Moreover, our laboratory has several inducible cancer zebrafish models (c-myc, EGFR, K-ras) used to understand cancer progression and to develop novel diagnostic tools.

Recent publications from the Gibert lab include the following:

Davalos-Salas et al., Nature Communications 2019
Enfrin et al., HAZMAT 2019
Gibert et al., Proc Biol Sci 2019
Soundararajan et al., STOTEN 2019
Singh et al., Scientific Reports 2019
Fleming et al., Eur J Med Chem 2018
Bonds et al., Methods Mol Biol, 2018
Wyett et al., Endocrine 2018
Kaslin and Gibert , eLS 2017
Henderson and Gibert, Curr Topics Med Chem 2017
Yoganantharajah et al., Curr Topics Med Chem 2017
Yoganantharajah et al., New J Cehm 2016
Fraher et al., Cell Reports 2016
Fraher et al., Mol Psy 2016

Jackson is located in the heart of the south with the most welcoming people in the country and plenty of outdoor activities available and low cost of living.

Our efforts are supported by a recently awarded discovery project (RO1 equivalent) from the National Health and Medical Research council (NHMRC Australia, NIH equivalent) and a generous start up package form UMMC as well as internal findings from UMMC and philanthropic foundations.

TO APPLY: 
Please email CV and reprints of relevant publications to the contact information below. Applicants accepted for initial consideration will be subsequently contacted for letters of reference.

**Expected starting date: the position is available now and will be posted until filled**

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