Resource Summary Report

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Quantitative PCR analysis to assess gene expression changes in hyperglycemic larval zebrafish

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Type: Protocol

Proper Citation

Sandra Rieger 2019. Quantitative PCR analysis to assess gene expression changes in hyperglycemic larval zebrafish. protocols.io dx.doi.org/10.17504/protocols.io.3bagiie

Protocol Information

URL: https://dx.doi.org/10.17504/protocols.io.3bagiie

Authors: Sandra Rieger

Group: Diabetic Complications Consortium

Summary: To assess hyperglycemia in larval zebrafish, we analyzed the expression of genes implicated in glucose metabolism, such as insulin, insulin receptor, glucagon, and phosphoenolpyruvate carboxylase (pepck), using quantitative PCR (qPCR). We analyzed gene expression following treatment of Tg(ins:NTRmCherry) transgenic larvae either with 0.5 % DMSO (controls) or 10 mM metronidazole (see Protocol 2) for ??-cell ablation at 3 and 8 days post fertilization (dpf). Diabetic Complication:

Affiliations: University of Miami

External URL:
https://www.diacomp.org/shared/document.aspx?id=222&docType=Protocol

Version: 1

Publication Date: 2019

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