

# THE 12 DAYS OF FISHMAS



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***A little boy cured!***

Daniel was a healthy ten-year-old boy until a rare and complex genetic condition suddenly caused an overgrowth of his lymphatic system, and fluid began leaking into his heart and lungs. Doctors tried treatment after treatment, but they were only stop-gap measures. The boy was taken to the Center for Applied Genomics at Children's Hospital of Philadelphia (CHOP) where Drs. Hakon Hakonarson and Christoph Seiler were able to identify the genetic mutation and, using the zebrafish model, engineer the genetic mutation, manifest the disease, test different treatments, and discover the cure for the out-of-control growth of the boy's lymphatic vessels. Because zebrafish develop from a cell to an adult in about five days, the research team was able to more quickly find a solution for the critical patient.

*You try a lot of things in research and only a few work... It's so great to go back into the clinic and treat on the basis of what the zebrafish revealed.*

Dr. Christoph Seiler

Read more:

- <https://www.ksat.com/health/2019/11/26/zebrafish-help-doctors-save-10-year-old-boys-life/>
- <https://www.statnews.com/2019/07/01/precision-medicine-zebrafish-helped-save-boys-life/>

