

Virginia Commonwealth University VCU Scholars Compass

**Undergraduate Research Posters** 

Undergraduate Research Opportunities Program

2020

## Phenotypic Expression of Two Candidate Genes of Nonsyndromic Craniosynostosis in Danio rerio

Annemarie Carver

Follow this and additional works at: https://scholarscompass.vcu.edu/uresposters

© The Author(s)

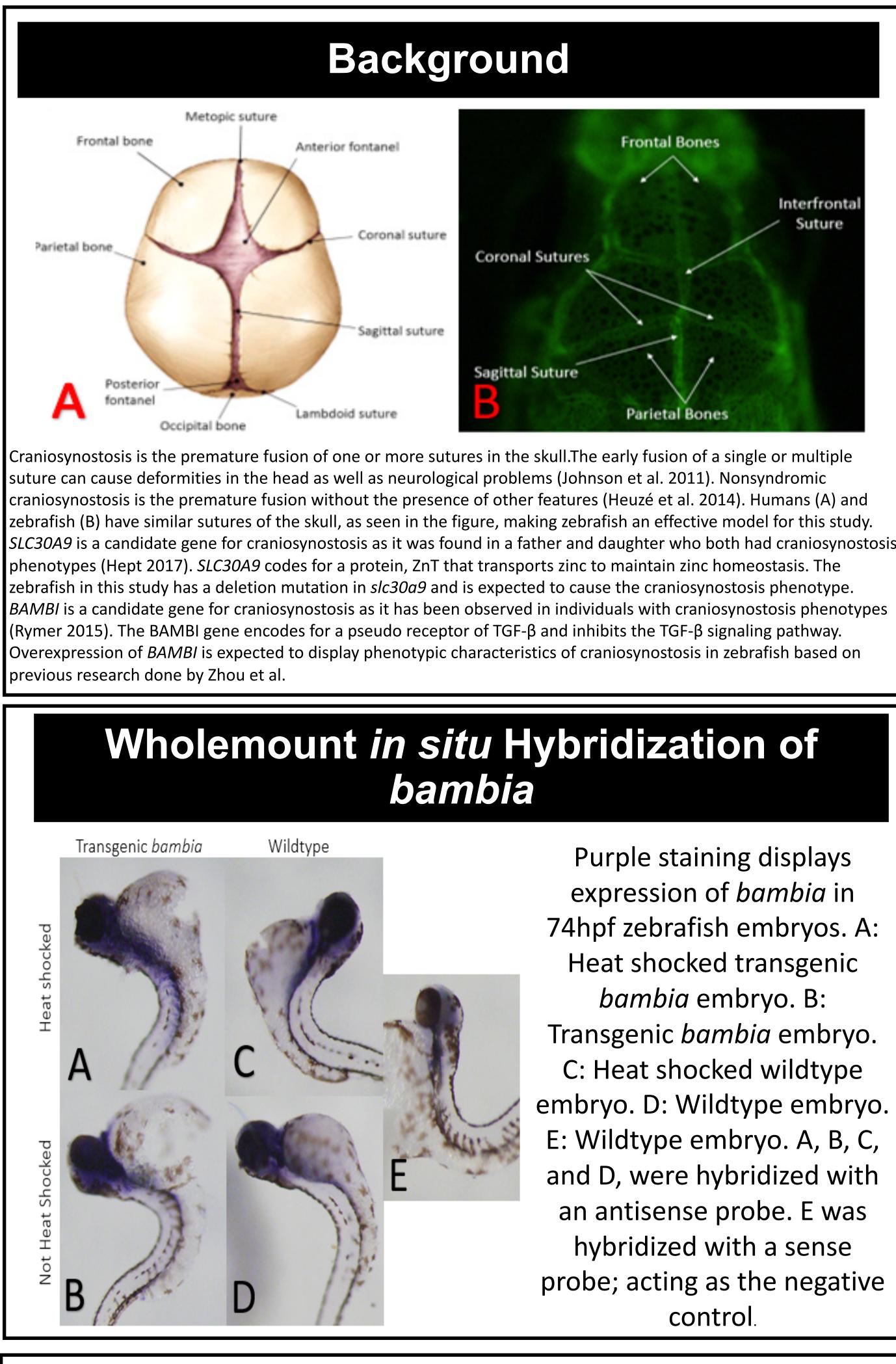
### Downloaded from

Carver, Annemarie, "Phenotypic Expression of Two Candidate Genes of Nonsyndromic Craniosynostosis in Danio rerio" (2020). *Undergraduate Research Posters*. Poster 284. https://scholarscompass.vcu.edu/uresposters/284

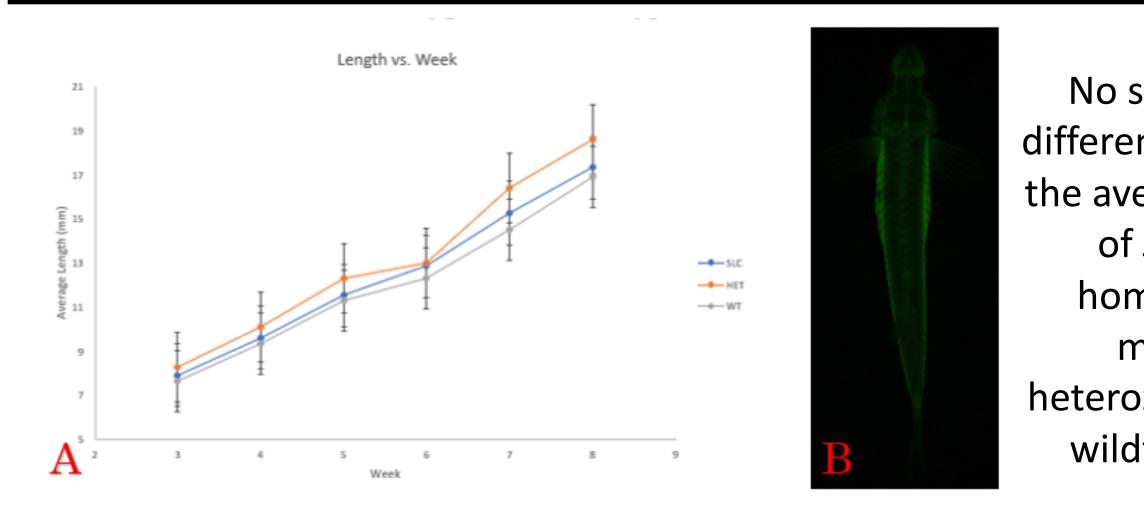
This Book is brought to you for free and open access by the Undergraduate Research Opportunities Program at VCU Scholars Compass. It has been accepted for inclusion in Undergraduate Research Posters by an authorized administrator of VCU Scholars Compass. For more information, please contact libcompass@vcu.edu.



# Phenotypic Expression of Two Candidate Genes of Nonsyndromic Craniosynostosis in Danio rerio Annemarie Carver<sup>1</sup>, Martha Cozzo<sup>2</sup>, Christopher Steele<sup>2</sup>, James Lister<sup>2</sup>, and Rita Shiang<sup>2</sup>

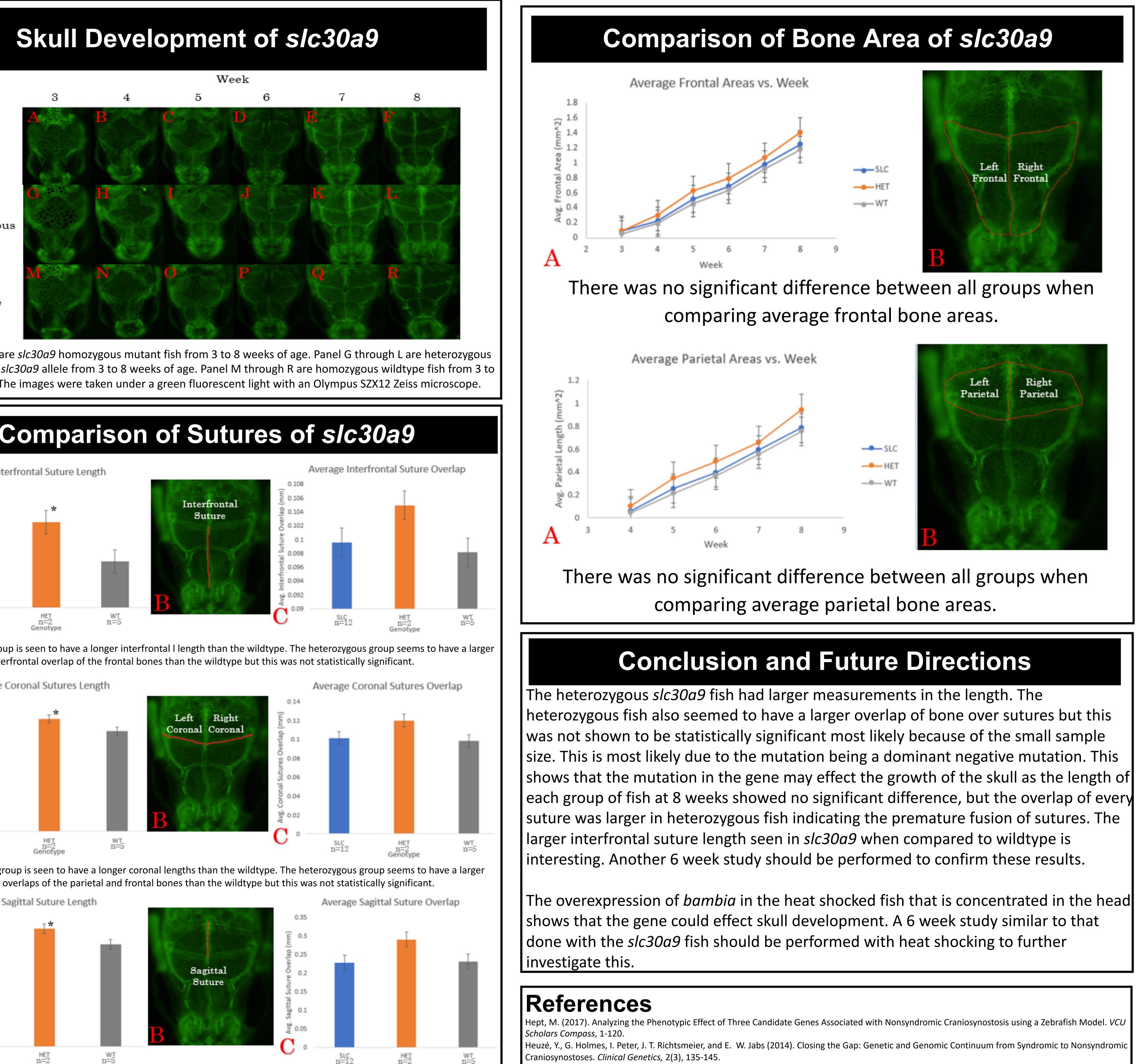


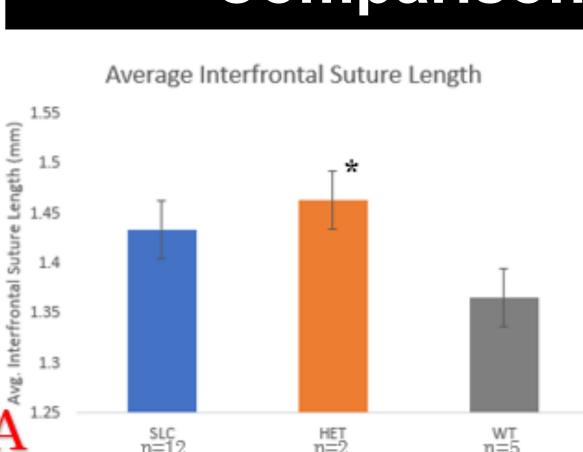
# **Comparison of Length of** *slc30a9*

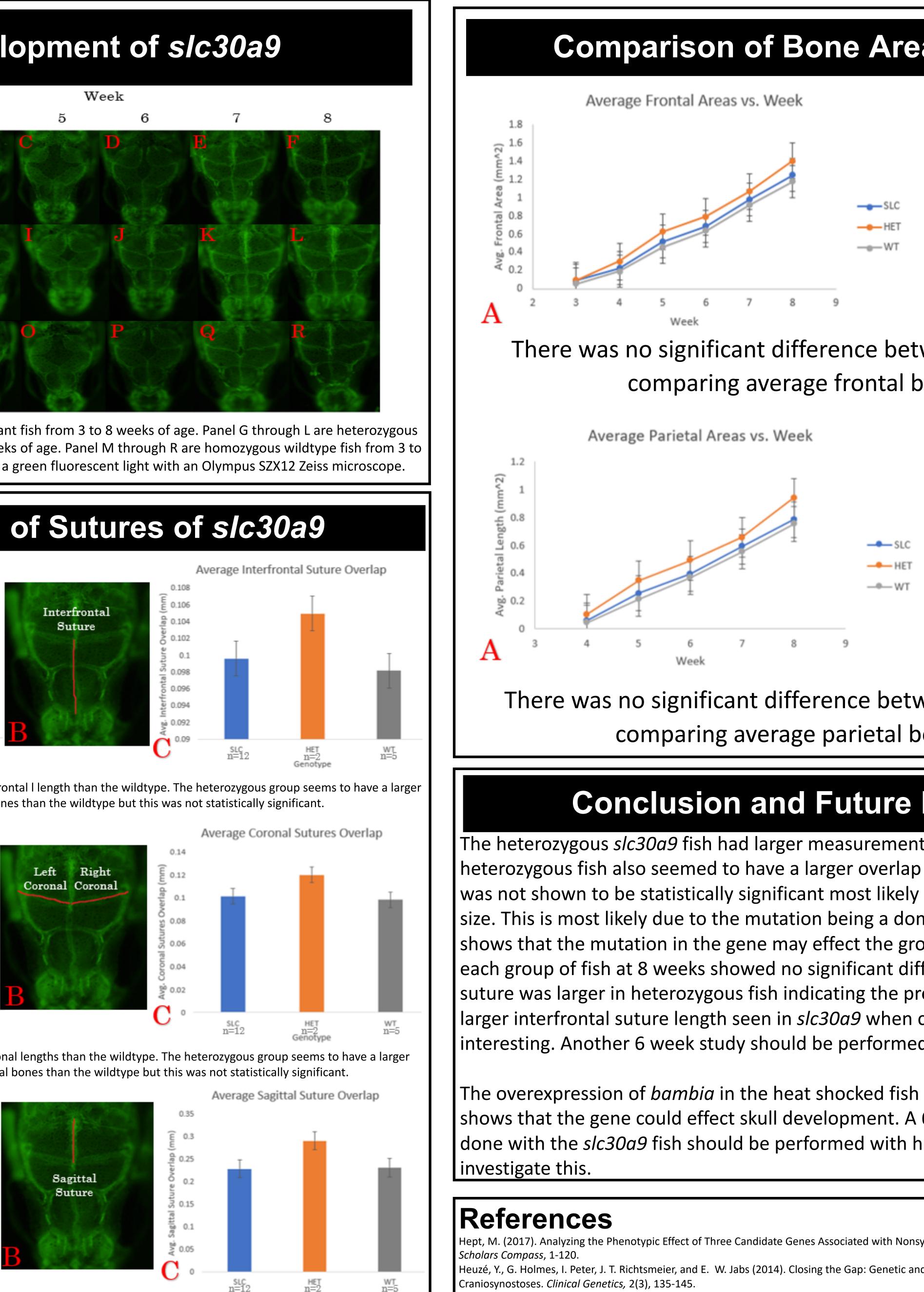


Departments of Biology<sup>1</sup> and Human and Molecular Genetics<sup>2</sup> Virginia Commonwealth University, Richmond Virginia

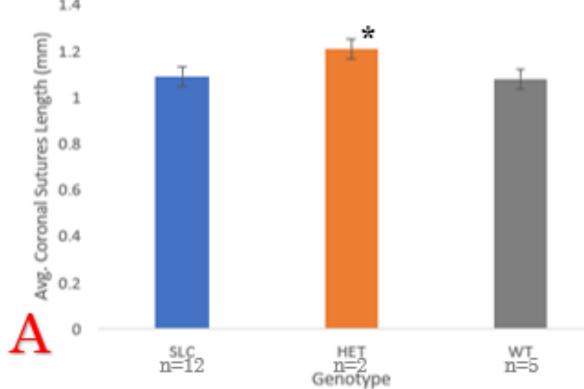
No significant difference found in the average length of *slc30a9* homozygous mutant, heterozygous, and wildtype fish.

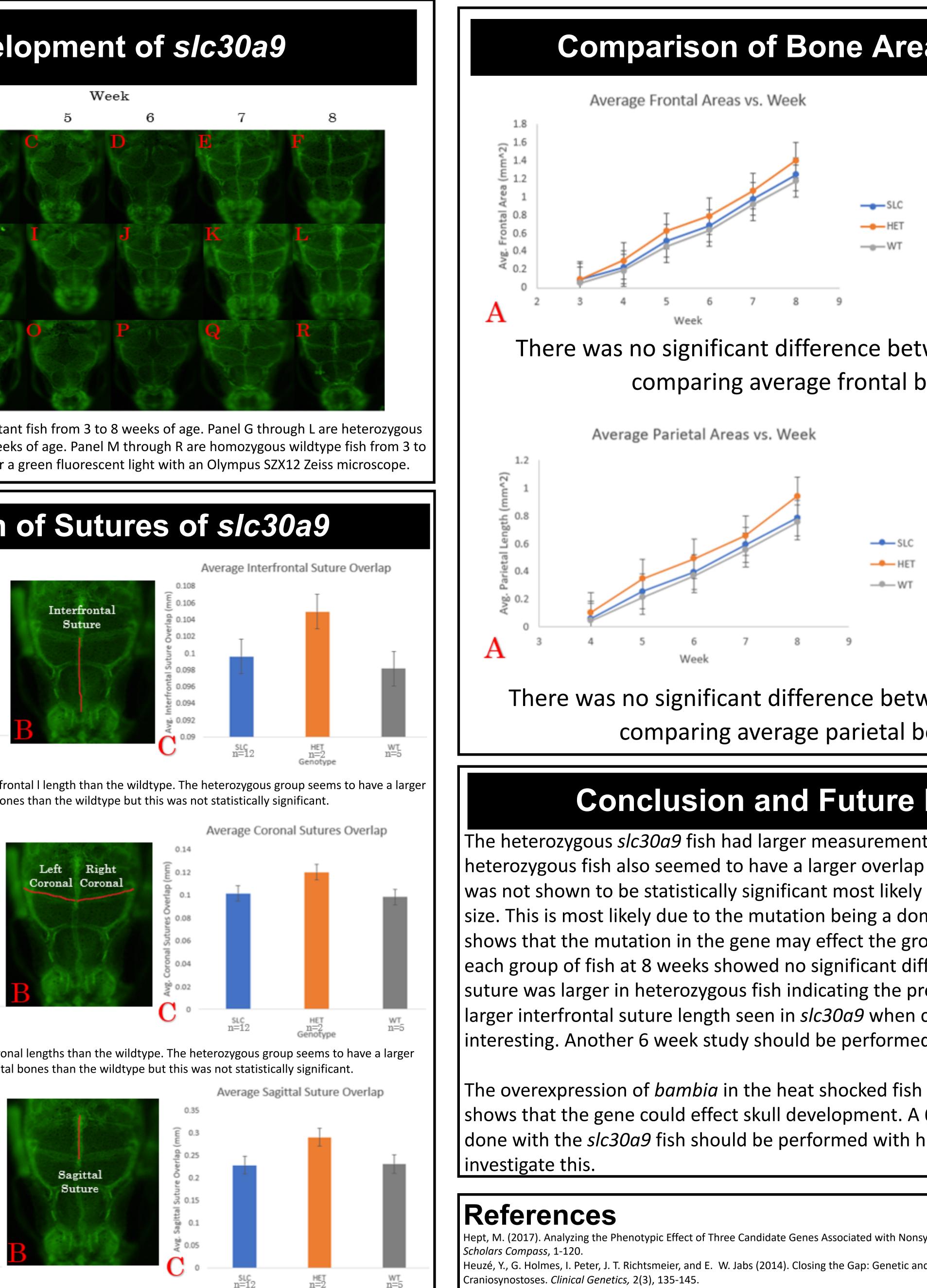


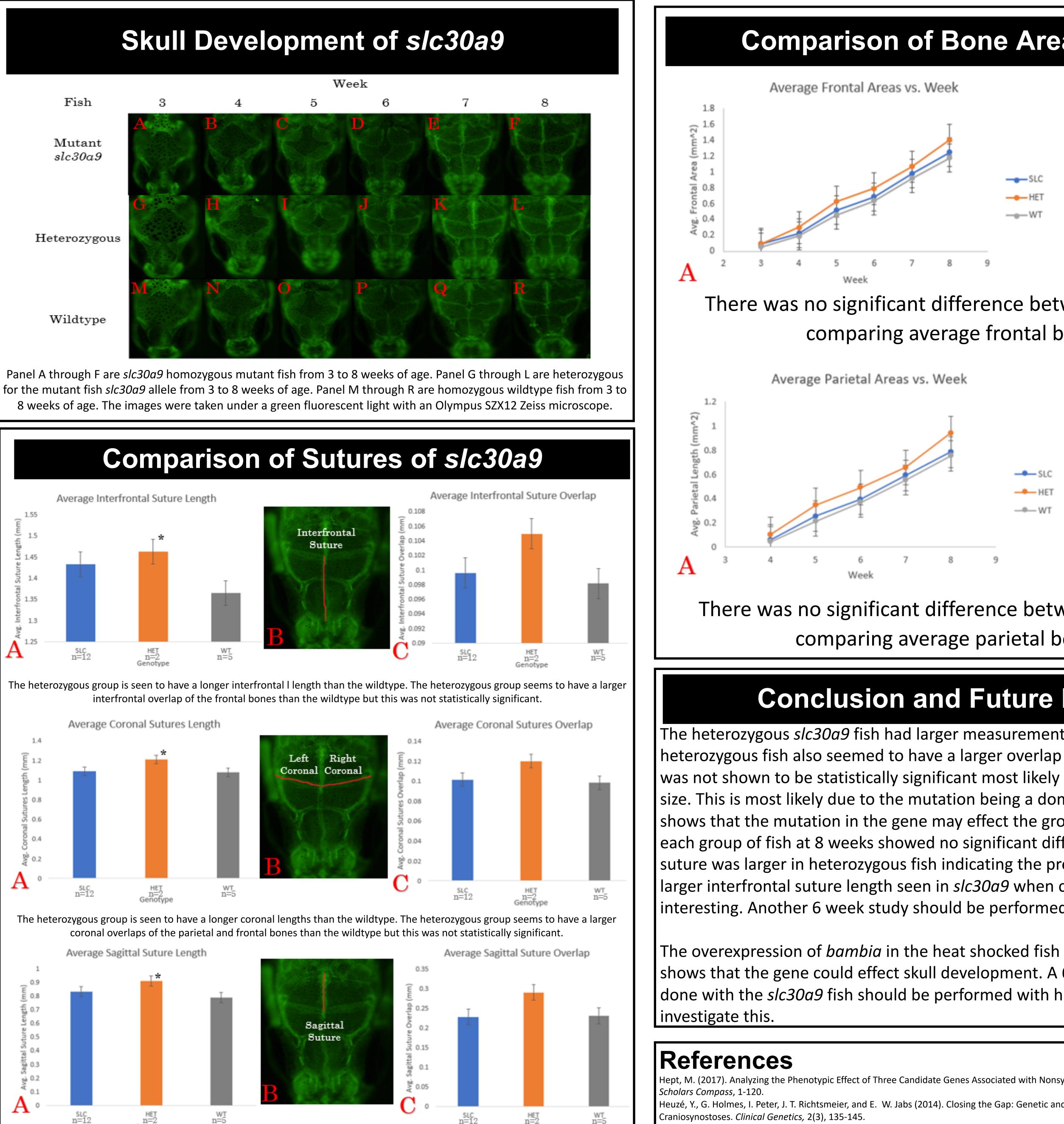












The heterozygous group is seen to have a longer sagittal length than the wildtype. The heterozygous group seems to have a larger sagittal overlap of the parietal bones than the wildtype but this was not statistically significant.

Johnson, D., and Wilkie, A. O. M. (2011). Craniosynostosis. *European Journal of Human Genetics*, 19, 369-376. Rymer, K. (2015). Identification of Candidate Genes for Craniosynostosis. VCU Scholars Compass, 1-93 Zhou, L., J. Park, K. Y. Jang, H. S. Park, S. Wagle, K. H. Yang, K. Lee, B. Park, and J. R. Kim (2013). The overexpression of BAMBI and its involvement in the growth and invasion of human osteosarcoma cells. Oncology Reports, 30(3), 1315-1322.







