



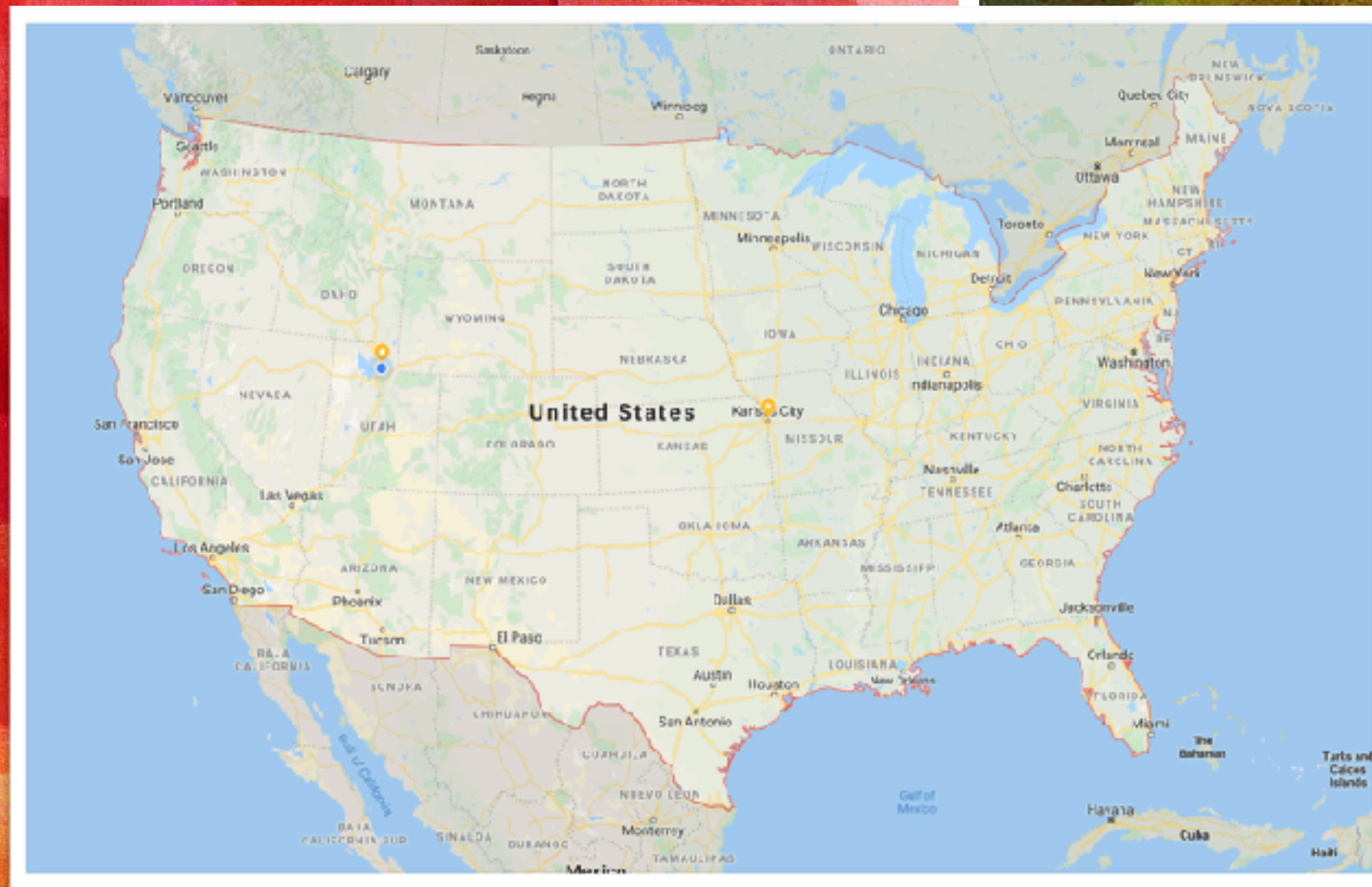
# SOFIA ROBB

.....  
*about me and what I do*





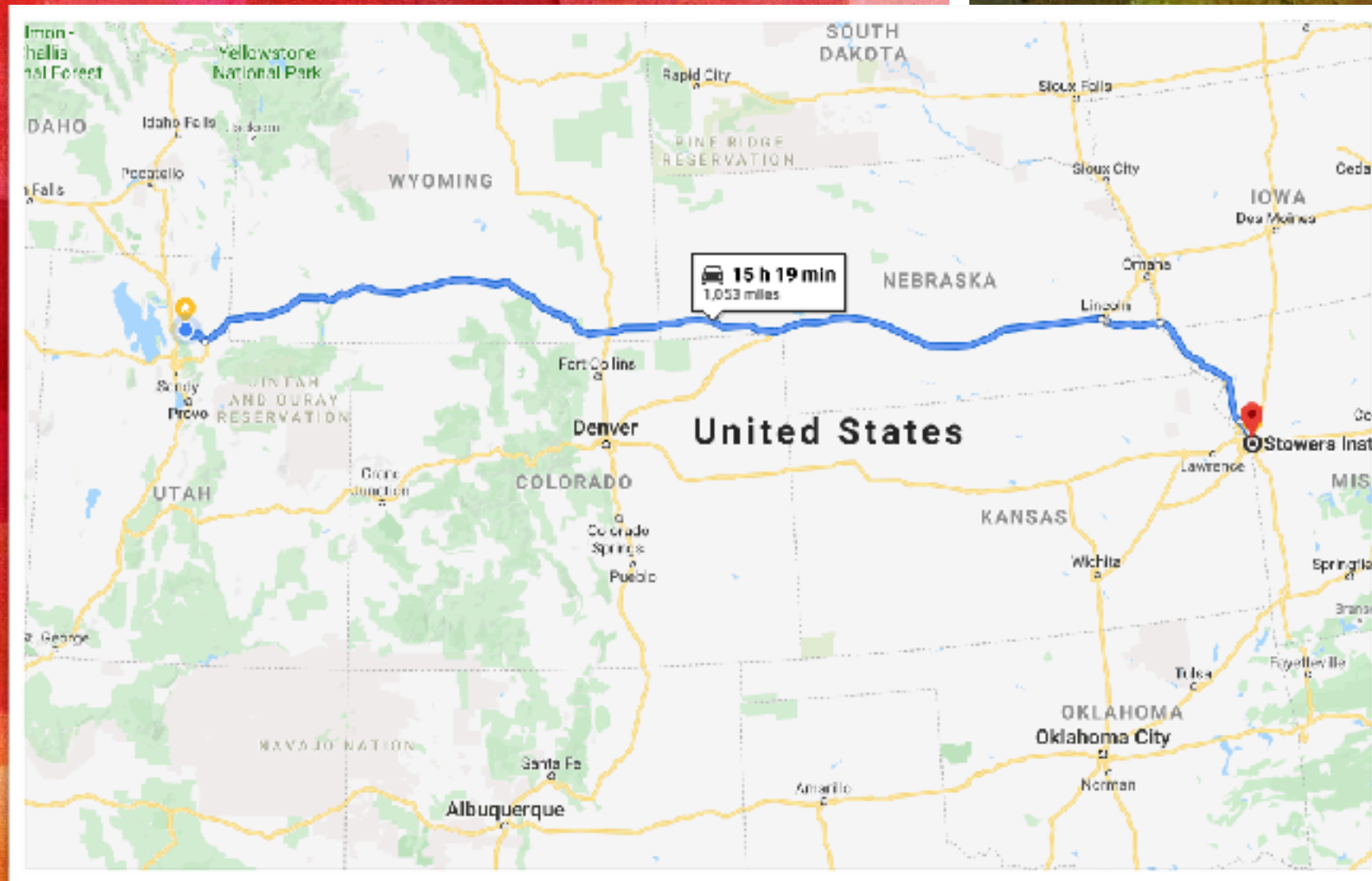
# UTAH – MISSOURI



*Stowers Institute for Medical Research*

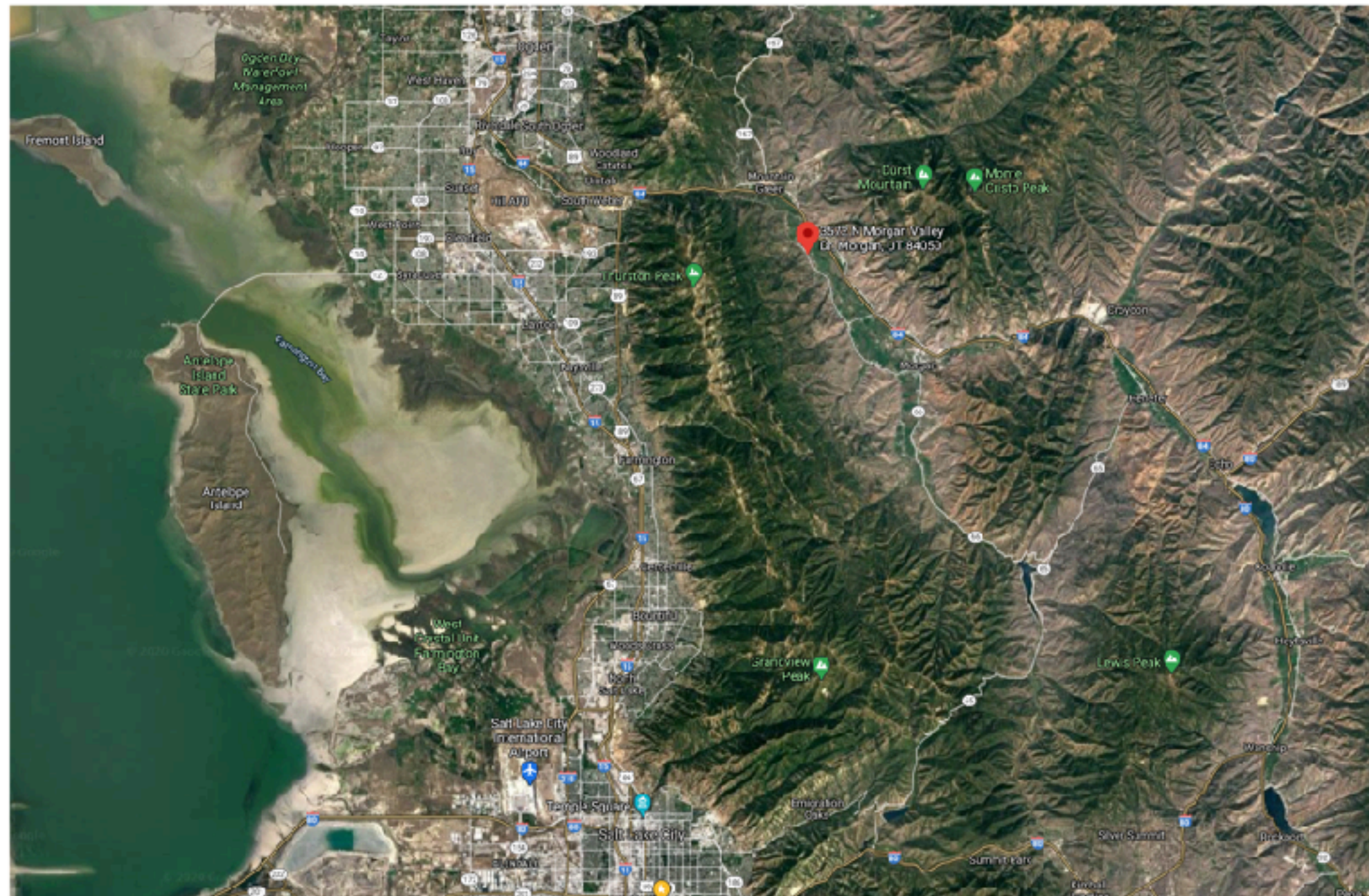


# LONG COMMUTE





# UTAH





# FAMILY





# ANIMALS



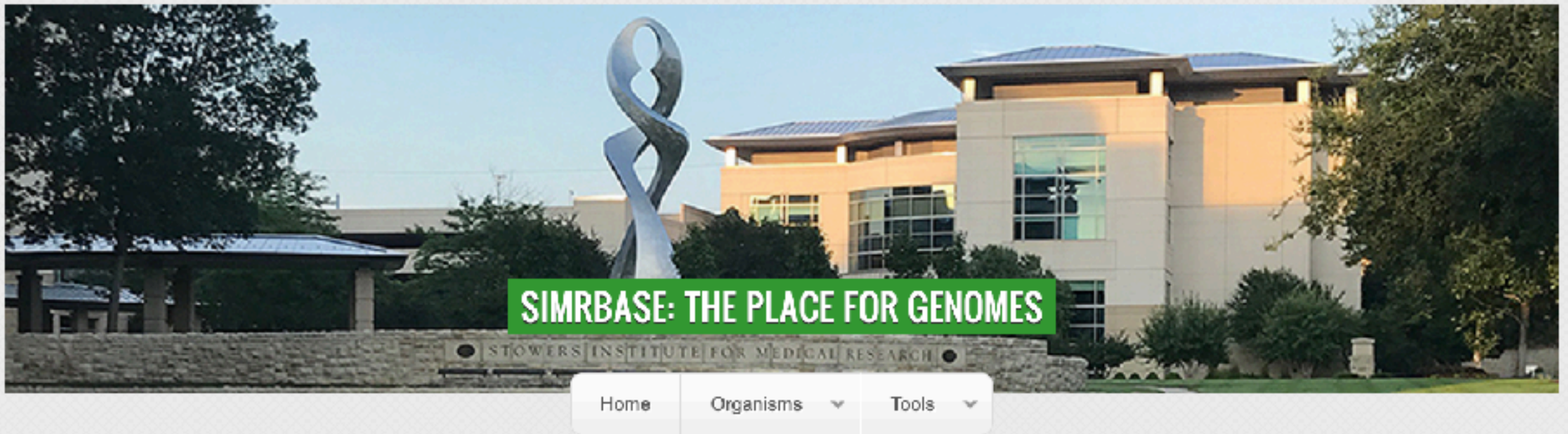




# DATA SHARING



# GENOME DATABASE





# GENOME DATABASE

## SIMRBASE ORGANISMS

### *Petromyzon marinus* (Sea Lamprey)



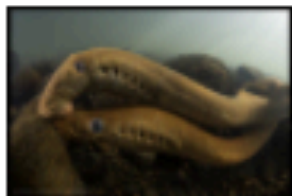
The sea lamprey is a member of over 350 million years ago (MYA). By virtue of its unique life cycle, it is a model for understanding the evolution of developmental pathways that define vertebrate anatomy, structure, immunity, clotting and others. These studies

### *Lampetra richardsoni* (Western Brook Lamprey)



Western Brook Lamprey (*Lampetra richardsoni*) which they metamorphose into a juvenile stage. The Western brook lamprey is a freshwater species that instead spawn shortly after metamorphosis (or "paired species") that are paired with the lamprey (*Lampetra ayresii*). Thus far the Western brook

### *Entosphenus tridentatus* (Pacific Lamprey)



Pacific lamprey (*Entosphenus tridentatus*) is native to the West Coast of North America. It is a member of the River Treaty Tribes of the U.S. Pacific Northwest discharges to the Pacific Ocean, where it has a basin size of 258,000 square miles. The genome was sequenced in part to support ongoing conservation efforts.

### *Nothobranchius furzeri* (African killifish, turquoise killifish)



*Nothobranchius furzeri*, the turquoise killifish, is found in Africa where it is only known in semi-arid areas with seasonal flooding. Its environment by evolving de novo genes. The life span of these animals is limited to a few months and the

### *Astyanax mexicanus* (Cavefish)



From *Ensembl*: The blind cavefish, *Astyanax mexicanus*, is a member of the *Characidae* family. The genome is available in Ensembl. The genome is organized into scaffolds (from 121,345 contigs) and corresponds to GenBank Accession Number GCA000000000. Due to the lack of species specific sequencing, the

### *Dugesia guanaquatiensis* (Mexican planarian)



Our samples of *D. guanaquatiensis* show high motility and a "patchy" ciliary band. Some cells are multiploid.

### *Schmidtea mediterranea* Sexual (Sexual Planarian)



Sexual flatworms are bilaterally symmetrical and have complex organ systems. They reproduce by fission, and obligate cross-fertilization. *Schmidtea mediterranea* mature into adult worms without an intervening larval stage but otherwise possess a body plan grossly similar to other planarians.

### *Pomacea canaliculata* (Apple Snail)



*Pomacea canaliculata*, commonly known as the apple snail, is an aquatic gastropod mollusk. In its native range, this species is considered as one of the 40th most invasive species in Europe -- From Wikipedia

### *Nematostella vectensis* (Starlet Sea Anemone)



Cnidaria – the animal phylum that includes jellyfish, corals, and sea anemones. As the most primitive animals with a fixed axis of symmetry, they are animal relics. As the principal model for the maintenance of tremendous

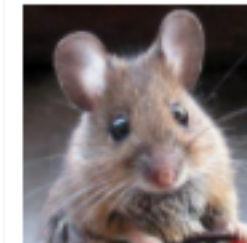
### *Scolanthus callimorphus* (Worm anemone)



The worm anemone has an elongated body and its tentacles are relatively stout, with tips tinted with brown in the outer half. The tips where they tend to form tentacles often purplish-brown.

Information from: [MaLIN](#)

### *Mus musculus* (Mouse)



The house mouse (*Mus musculus*) is a species of the genus *Mus*. Although it is a pest, the house mouse has been domesticated and is one of the most important model organisms. The house mouse was sequenced in 2002. Laboratory mouse is a mammalian species used in genetic research... [\[more\]](#)

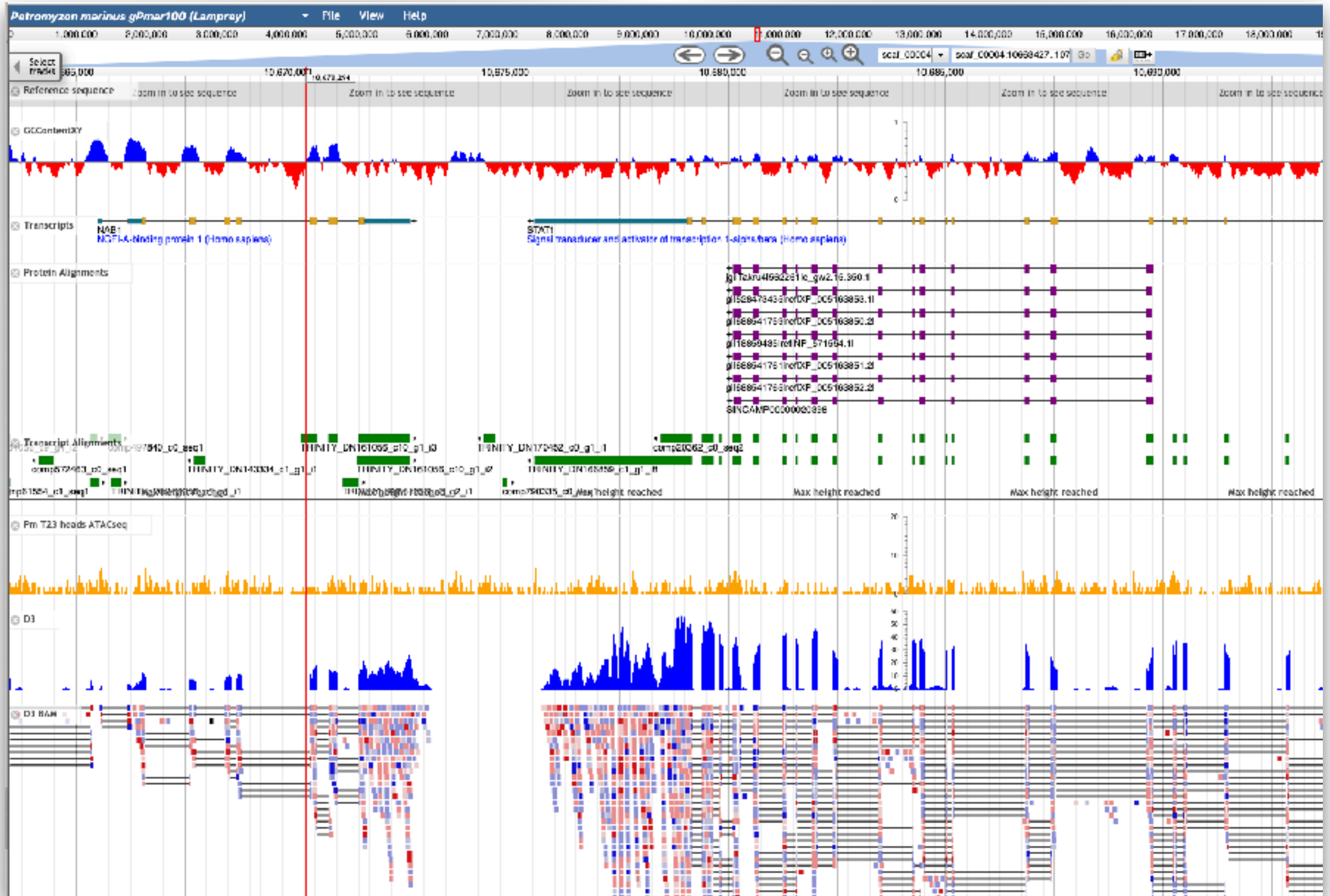
### *Danio rerio* (Zebrafish)



The zebrafish (*Danio rerio*) is a tropical fish in the order Cypriniformes. Native to the Indian subcontinent, its trade name is zebra danio. The zebrafish is a model organism for scientific research, and was the first vertebrate to be sequenced. It has been modified by re



# GENOME BROWSERS





# GENE PAGES

## POLDIP2, XM\_015976444.1 (MRNA) NOTHOBRANCHIUS FURZERI

Overview

Alignments

Analyses

Annotated Terms

Cross References

Homology

Properties

Protein Families

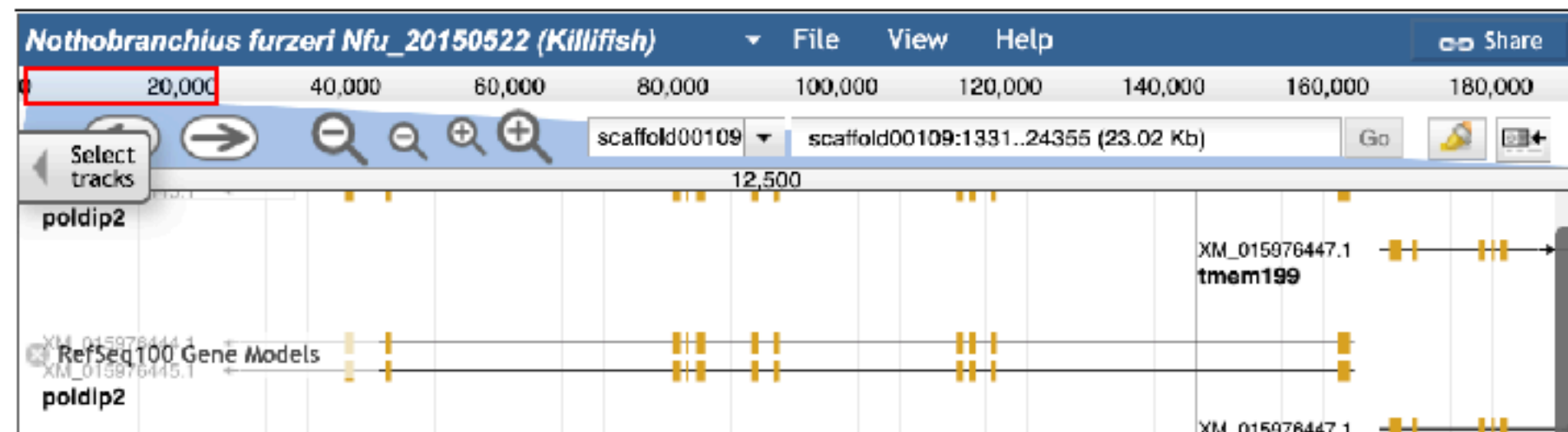
Protein Motifs

Relationships

Sequences

### Overview

|                 |  |
|-----------------|--|
| Name            | poldip2  |
| Unique Name     | XM_015976444.1   |
| Type            | mRNA   |
| Organism        | <i>Nothobranchius furzeri</i> (African killifish, turquoise killifish) |
| Sequence length | 2745   |







# ONTOLOGIES