



# SOFIA ROBB

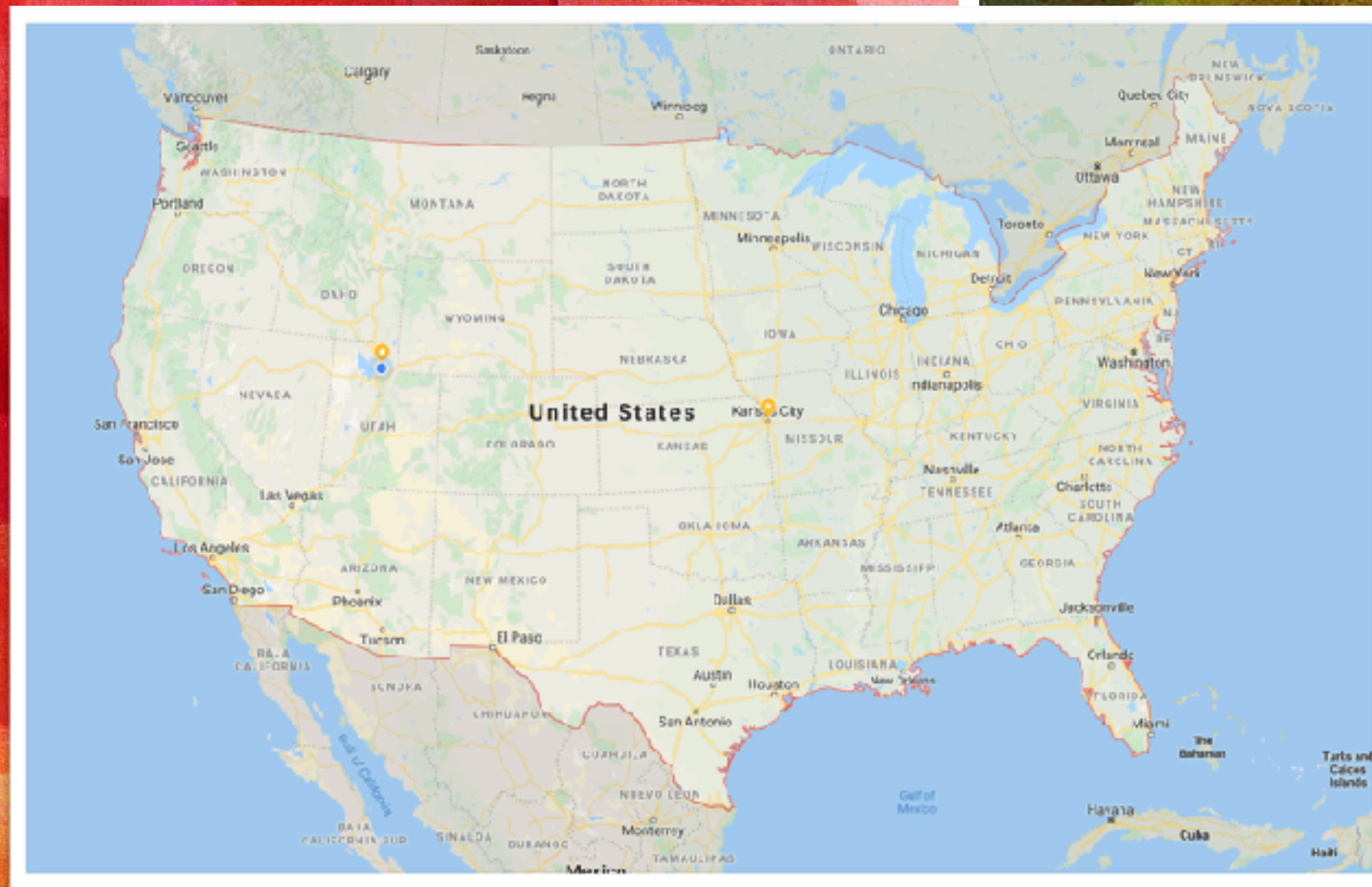
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*about me and what I do*





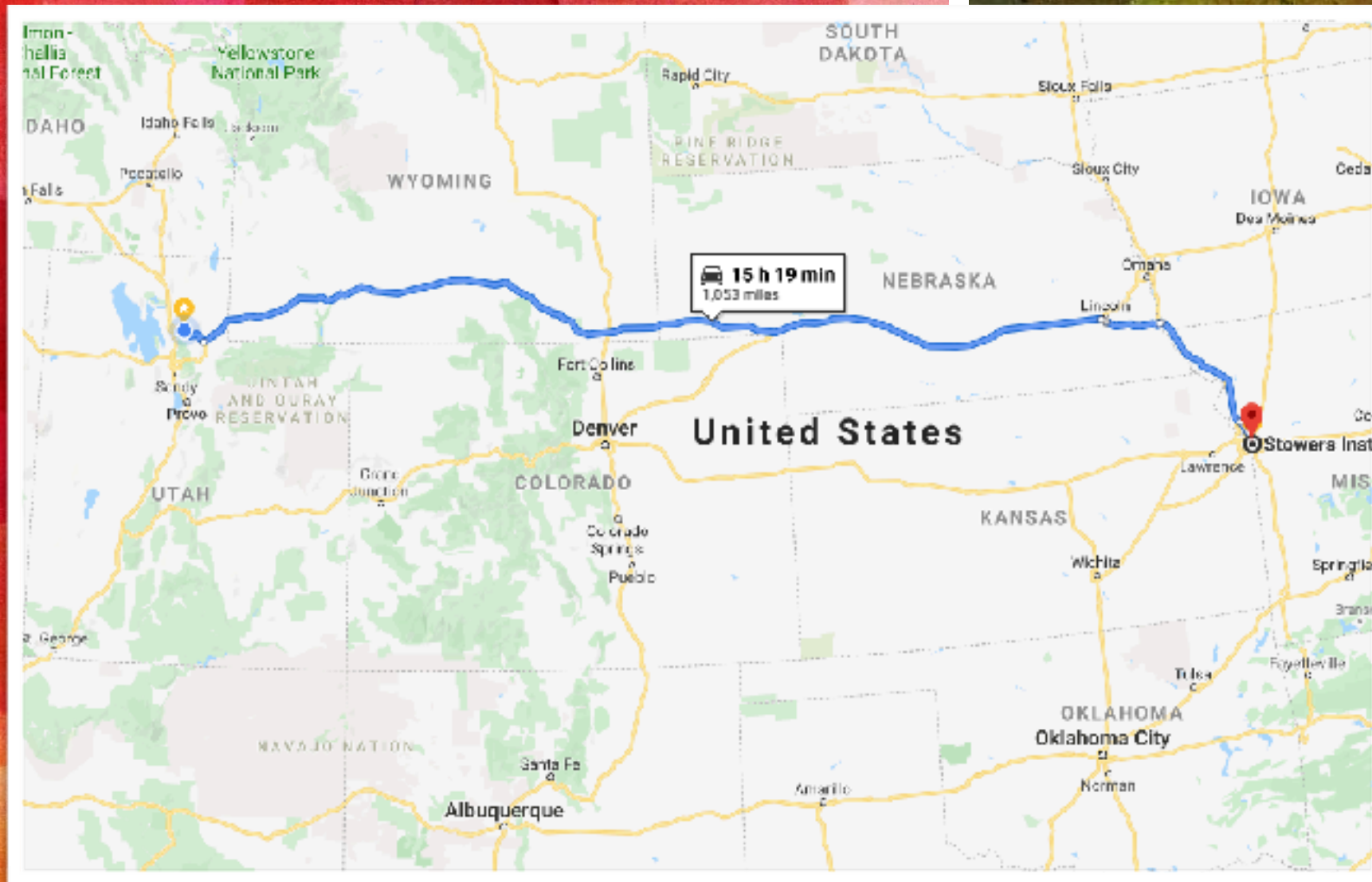
# UTAH – MISSOURI



*Stowers Institute for Medical Research*

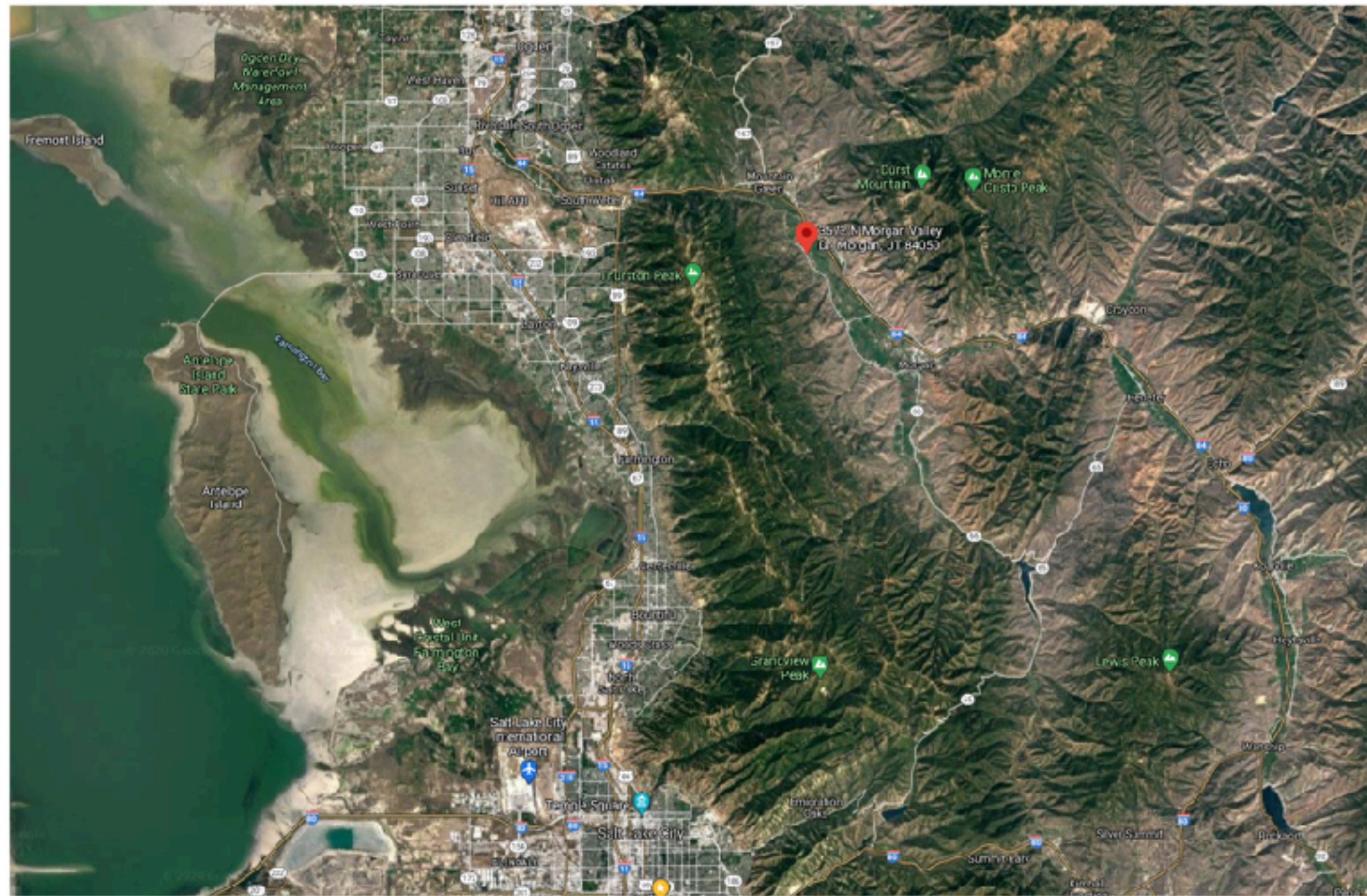


# REMOTE WORK





# REMOTE WORK





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# REMOTE WORK



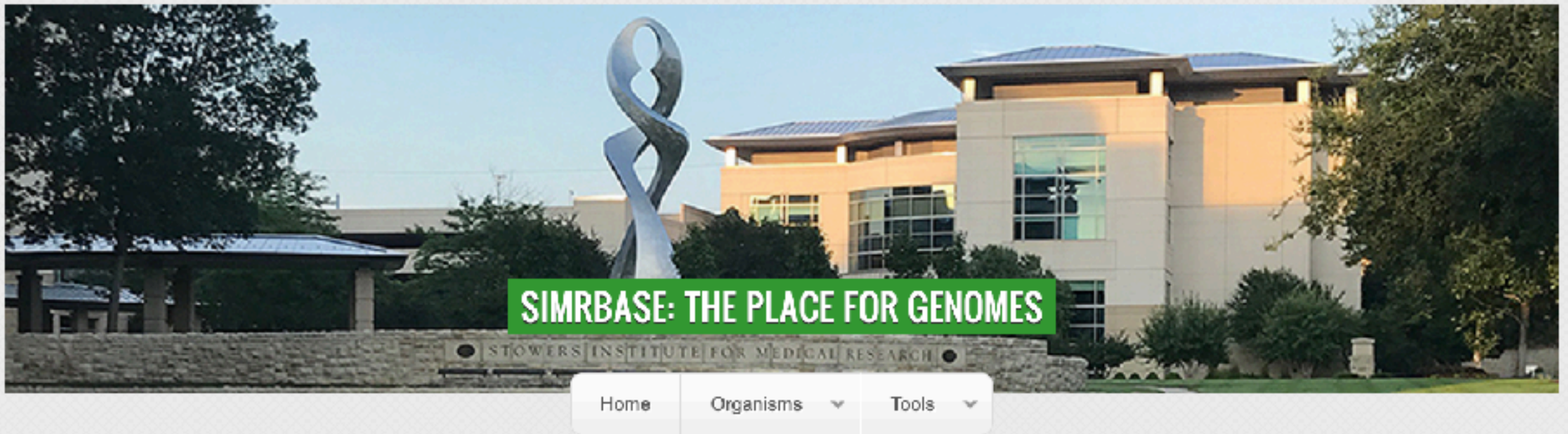




# DATA SHARING



# GENOME DATABASE





# GENOME DATABASE

## SIMRBASE ORGANISMS

### *Petromyzon marinus* (Sea Lamprey)



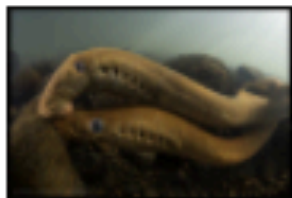
The sea lamprey is a member of over 350 million years ago (MYA). By virtue of its unique life cycle, it is a model for understanding the evolution of developmental pathways that define vertebrate anatomy, structure, immunity, clotting and others. These studies

### *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 Atlantic 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 Pacific River Treaty Tribes of the U.S. It discharges to the Pacific Ocean, where it lives in 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) which corresponds to GenBank A009016. Due to the lack of species specific sequencing... [more]

### *Dugesia guanaquatiensis* (Mexican planarian)



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

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



Smed flatworms are bilaterally symmetrical, asexual types and organ systems. They reproduce by fission, and obligate cross-fertilization. *S. 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*, common in Asia, has an operculum, an aquatic life cycle. In origin, this species is considered as about 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. *Nematostella vectensis* is a model organism in the tree of life. As the most primitive animals with tentacles, and a fixed axis of symmetry, it is an animal relic. As the principal model for the maintenance of tremendous

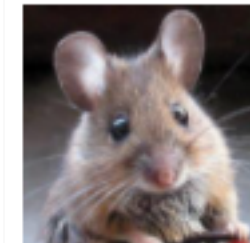
### *Scolanthus callimorphus* (Worm anemone)



The worm anemone has an elongated body. Its tentacles are relatively stout, and the tips are 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 small, brown, pointed snout, small rounded ears, and a long tail. It 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. It was sequenced in 2002. Laboratory mouse is a mammalian species used in genetic... [more]

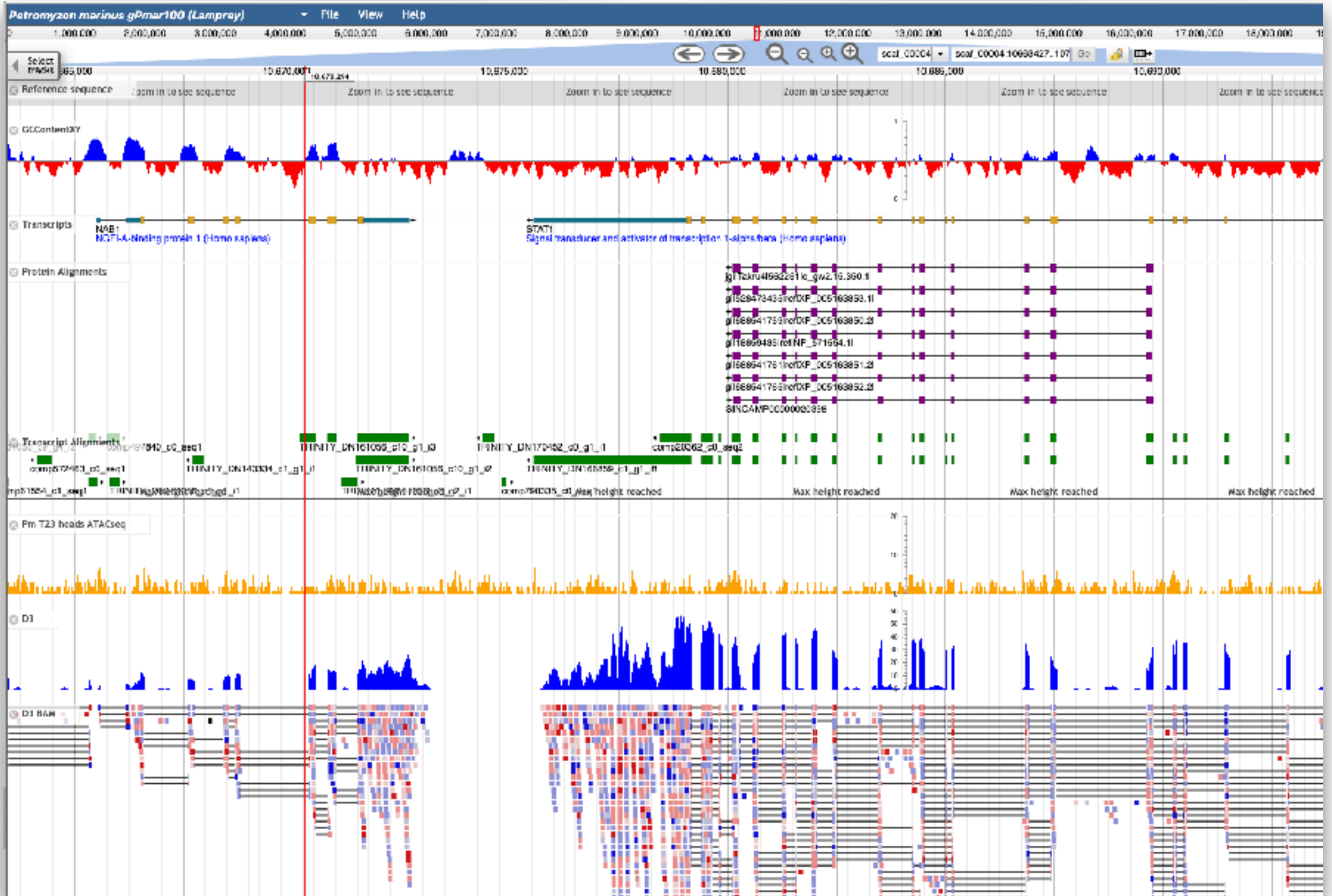
### *Danio rerio* (Zebrafish)



The zebrafish (*Danio rerio*) is a tropical fish in the order Cypriniformes. Native to the Himalayas, its trade name is zebra danio. The zebrafish is a model organism in 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

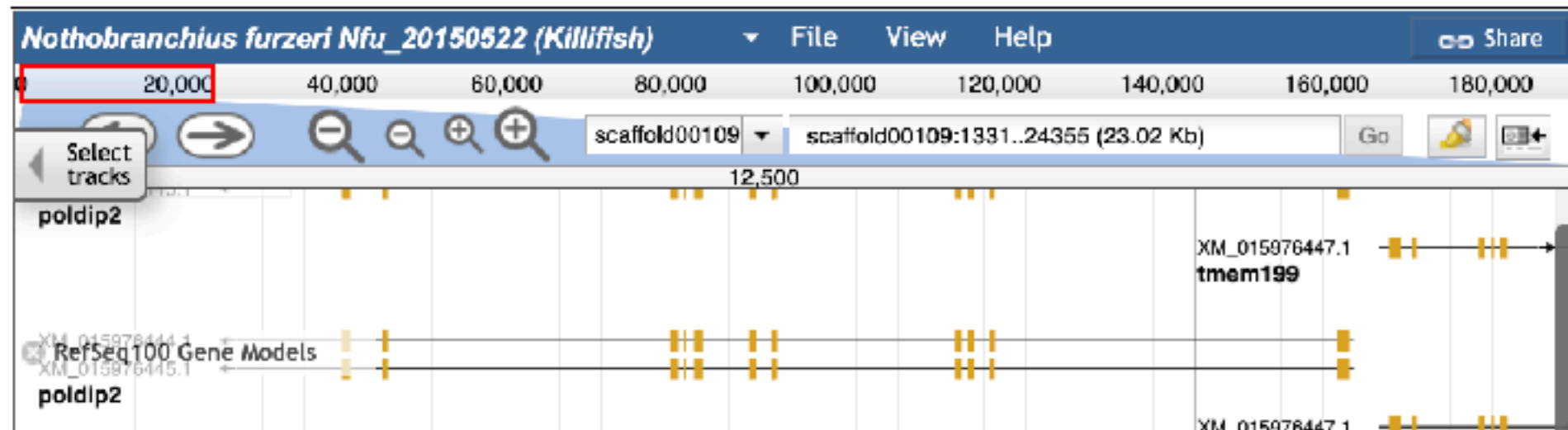
Protein Motifs

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