Participation

If you or someone you know fit the following criteria, please visit us to see if you’d like to participate!

- **Age 18 years and upwards**
- **Interested in headache research**

No cost to the participant

Your altruistic involvement in this study will include learning what is at the forefront of migraine and headache research and how it is affecting you.

Contact us!

For more information or to volunteer for this study, please contact:

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Molecular Neurology Program  
Location & Parking

99 N. El Molino Ave  
Pasadena, CA 91101

Huntington Medical Research Institutes  
www.hmri.org  
(626) 795-4343

MIGRAINE

Molecules  
Brain Waves  
HMRI  
Imaging
**WHAT IS MIGRAINE?**

**PEOPLE WITH MIGRAINE EXPERIENCE**
- Painful sensitivity to light, sounds, and smells
- Nausea and vomiting
- Loss of balance, altered consciousness, or impaired thinking or mood

**MORE RESEARCH IS NEEDED**
- The cause of migraine is still not known
- Diagnosis and treatment is inadequate

**HMRI IS LEADING THE WAY**

The goal of our research at HMRI is to understand migraine in order to help diagnosis and devise treatment to correct the actual cause of migraine.

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**MIGRAINE FACTS**

- Over 30 million Americans affected
- 3 million have chronic daily headache!
- Drug treatment may help combat migraine and some treatments reduce the frequency and severity of headaches but medications do not always help and often have side effects
- It is difficult to predict successful treatment

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**RELATED CONDITIONS**

- Depression, anxiety, irritable bowel syndrome, fibromyalgia, asthma, painful bladder syndrome etc.
- Is there a common underlying mechanism for migraine and these other conditions?
- Identifying common or unique causes of these related conditions would help identify how to treat each individual

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**FINDING A CURE**

At HMRI, we recruit people with migraine from the local community and from our collaborators at Stanford University and Los Angeles.

To discover underlying causes, we study molecules in blood and spinal fluid, and measure brain rhythms that change during migraine.

Among the many changes that we have discovered, it is the change in the brain’s sodium balance that may guide us to a cure for migraine. We predict that a sodium imbalance will increase excitability in neurons, the fundamental cause of migraine symptoms.

We currently explore how to restore a normal sodium balance, in order to alleviate symptoms.