



Antagomir to prevent cardiac arrhythmia (2019-069)

Technology No. 2019-069

IP Status: Provisional Patent Application Filed

Applications

- Therapeutic (alone or in combination) for cardiac arrhythmias
- Research tool to knock-down miR-448 and or upregulate SCN5A
- Cancer therapeutic (for cancers where miR-448 is relevant)

Technology Overview

Arrhythmic cardiomyopathy can cause severe problems including cardiac arrest and death. Unfortunately, many of the therapeutics to treat arrhythmias can actually have pro-arrhythmic side effects. This technology is an antagomir targeting miR-448 (anti-miR-448), a microRNA linked to the downregulation of the sodium channel SCN5A. Relieving the inhibition of miR-448 facilitates the upregulation of SCN5A, which is protective against arrhythmia, while bypassing the potential pro-arrhythmic side-effects of existing therapies.

Phase of Development

TRL: 3

In vitro and in vivo testing.

Desired Partnerships

This technology is now available for:

- License
- Sponsored research
- Co-development

Please contact our office to share your business' needs and learn more.

Researchers: Sam Dudley, MD, PhD , Professor of Medicine, Cardiovascular Division, Medical School

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