



New Compounds for Treating High Blood Cholesterol and More

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WARF: P150140US02

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The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in developing indole compounds that could be used to modulate the secretion of PCSK9 and IL-17.

Overview

Indole is one of the most abundant heterocycles in pharmaceuticals and bioactive natural products, such as indometacin, a non-steroid anti-inflammatory drug, and vincristine, a natural product used to treat a number of types of cancers.

Given the importance of indoles, much effort has been devoted to preparing them from a variety of starting materials. However, inefficiency, low selectivity and low yield remain a problem for polysubstituted indoles or when the indole is in a complex polycyclic system.

The Invention

UW–Madison researchers have now developed a method using a rhodium-containing catalyst to make indole compounds, specifically cyclopropyl indoles and cyclohepta[b] indoles. The compounds may be developed into new pharmaceuticals to treat a variety of conditions.

Applications

- Potential therapeutics for treating high cholesterol, inflammation and other autoimmune disorders

Key Benefits

- Promising drug potential
- Efficient synthesis

Stage of Development

The compounds have been advanced through Eli Lilly's Open Innovation Program and have generated positive data.

The development of this technology was supported by WARF Accelerator. WARF Accelerator selects WARF's most commercially promising technologies and provides expert assistance and funding to enable achievement of commercially significant milestones. WARF believes that these technologies are especially attractive opportunities for licensing.

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For More Information About the Inventors

- [Weiping Tang](#)

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Related Technologies

- [WARF reference number P150023US03 describes a method for synthesizing indole compounds to treat health problems linked to PCSK9 and IL-17.](#)

Tech Fields

- [Materials & Chemicals : Synthesis](#)
- [Therapeutics & Vaccines : Cardiovascular](#)
- [Therapeutics & Vaccines : Inflammation](#)
- [Therapeutics & Vaccines : Metabolic disorders](#)

For current licensing status, please contact Rafael Diaz at rdiaz@warf.org or 608-960-9847

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