

# Synthetic Ligands that Modulate the Activity of the RhIR Quorum Sensing Receptor

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Inventors: Helen Blackwell, Joseph Moore, Michelle Boursier

# The Invention

UW Madison researchers have developed RhIR modulators including agonist and antagonists which are useful for modulating QS phenotypes in Gram-negative bacteria. Certain compounds of general formula A-W-HG having various carbocyclic ad heterocyclic head groups (HG) and various tail groups (A), where -W- is -CO-NH-, -SO2-NH-, -CO-NH-CH2-, or -SO2-NH-CH2- are RhIR agonists or antagonists. The compounds are useful in methods of modulating quorum sensing in Gram-negative bacteria, particularly in Pseudomonas. Compositions including certain RhIR modulators are useful for decreasing the virulence of Gram-negative bacteria. Pharmaceutical compositions comprising certain RhIR modulators are useful for treatment of infections of Gram-negative bacteria.

# Additional Information

### For More Information About the Inventors

Helen Blackwell

#### **Tech Fields**

<u>Therapeutics & Vaccines : Anti-infectives (antibacterials, antifungals, antivirals)</u>

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

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