

## Bactericidal and Bacteriostatic Agents against Drug-Resistant Bacteria

**Track Code:** 2019-SINT-68535

**Categories:**

- Pharmaceuticals

**Keywords:**

- Antibacteria
- Antibiotic
- Antibiotic Resistance
- Bactericidal
- Bacteriostatic
- E. faecalis
- Enterococcus
- L. monocytogenes
- Listeria
- MRSA
- Pharmaceuticals
- S. aureus
- Staphylococcus
- VRE

Researchers at Purdue University have developed novel antimicrobial agents to solve the continued problem of drug-resistant bacterial strains; approximately 20,000 people die in the US every year from drug-resistant infections. These antimicrobial agents potently inhibit bacterial growth in several species, including drug-resistant strains, at concentrations as low as 0.0675 micrograms per milliliter. This family of compounds contains both bactericidal and bacteriostatic agents.

**Advantages:**

- Inhibits drug resistant bacteria strains
- Kills bacteria at low concentration

**Potential Applications:**

- Antimicrobial Agent

**Related Publication:**

Potent trifluoromethoxy, trifluoromethylsulfonyl, trifluoromethylthio and pentafluorosulfanyl containing (1,3,4-oxadiazol-2-yl)benzamides against drug-resistant Gram-positive bacteria  
RSC Med. Chem., 2020,11, 102-110  
DOI: 10.1039/C9MD00391F

**People:**

- Sintim, Herman O (Project leader)
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**Intellectual Property:**

**Application Date:** April 24, 2020

**Type:** PCT-Patent

**Country of Filing:** WO

**Patent Number:** (None)

**Issue Date:** (None)

**Application Date:** April 26, 2019

**Type:** Provisional-Patent

**Country of Filing:** United States

**Patent Number:** (None)

**Issue Date:** (None)

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