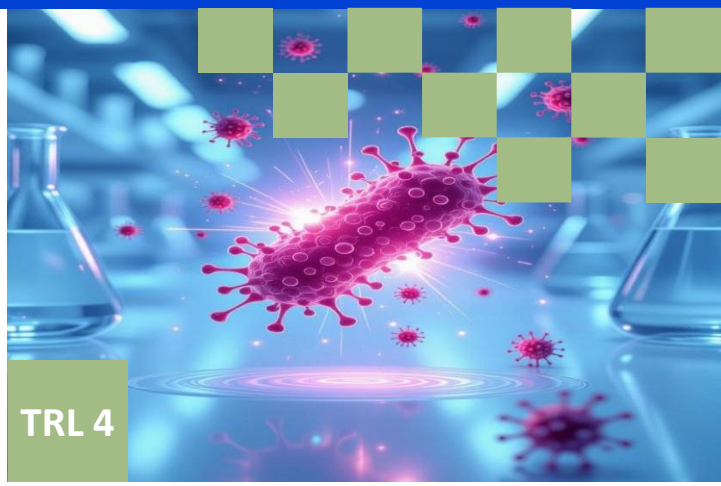
University of Gdańsk | Technology Transfer Office

Bio-tech

Antibacterial Agent Effective Against Pseudomonas aeruginosa and Its Application



About the solution

The invention relates to a novel antibacterial mixture effective against Pseudomonas aeruginosa, a pathogen naturally resistant to many chemical agents. The solution is based on the synergistic combination of 5-hydroxy-1,4-naphthoquinone (juglone) with silver nanoparticles, which activates and enhances its antibacterial properties.

The mixture shows high effectiveness against P. aeruginosa strains, particularly in the treatment of wounds, helping to counteract the growing problem of antibiotic resistance.

The invention also covers the medical application of the composition for external use, especially on skin and wounds, as a potent antibacterial agent.

Research Team

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IP Protection

The invention is protected by the Polish Patent Office under the following number **Pat.243941**

Applications

- Medicine,
- Wound therapies,
- Antimicrobial agents.

Cooperation opportunities

- Research partnership,
- Licensing,
- Technology sale.

Technology readiness level

TRL 4 - Technology validated in laboratory conditions

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