

Novel Antibiotics Derived from Frog Skin (Yissum)

code: 6-2009-2281

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Natural peptides with antibacterial and antiviral properties

Categories	Peptide/Protein, Small Molecule, New Chemical Entity
Development Stage	New peptides discovered
Patent Status	Patent filed in the United States
Market	The global market for antibacterial pharmaceuticals has suffered from a major shift in sales from brand products to generics, causing revenues to drop. The growing medical problem of drug-resistant bacteria is causing many of the current antibiotics to lose efficacy. The antibiotics market is forecast to surpass \$25 billion by 2011.

Highlights

- **Antimicrobial peptides (AMPs) are natural antibiotics that provide a first line of attack against microorganisms invading body fluids and the skin.**
- **Several hundred such peptides have been isolated from spiders, scorpions, fruit-flies and fish, with more than 20% produced by the skin glands of frogs and toads.**
- **Development of drug resistance fuels a constant search for new antimicrobials**
- **Employing a proprietary method for growing intact skin glands derived from frog-skin in vitro, new peptides have been isolated**

Our Innovation

- **Novel antimicrobial peptides isolated from the skin of various frogs.**

Key Features

- **Non toxic to somatic cells**
- **Powerful antiviral and antibacterial activity**

Development Milestones


- **Next stage: synthesis of peptides and testing to determine the biological activity obtained from different combinations**

The Opportunity

- **Seeking funding and/or collaboration for the exciting opportunity to be involved in**

the development of a new generation of anti-microbial drugs

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