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Author: John R. North Shunsuke Takenaka Annett Rozek
Agnieszka Kielczewska Steven Opal Lisa A. Morici B.Brett
Finlay Christopher J. Schaber Richard Straube Oreola Donini



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A novel approach for emerging and antibiotic resistant infections: Innate Defense Regulators as an agnostic therapy

John R. North^a, Shunsuke Takenaka^a, Annett Rozek^a, Agnieszka Kielczewska^a, Steven Opal^b, Lisa A. Morici^c, B. Brett Finlay^d, Christopher J. Schaber^e, Richard Straube^e, Oreola Donini^{a,e}

^aInimex Pharmaceuticals Inc., 8540 Baxter Place, Burnaby, BC, V5A 4T8. Canada,

^bThe Warren Alpert Medical School of Brown University, Pawtucket, RI, 02912. United States,

^cTulane University School of Medicine, 1430 Tulane Avenue #8010, New Orleans, LA, 70112. United States

^dUniversity of British Columbia, Vancouver, BC, V6T 1Z4. Canada,

^eSoligenix Inc., 29 Emmons Drive, Suite C-10, Princeton, NJ, 08540. United States

Corresponding Author: Dr. Oreola Donini, odonini@soligenix.com

Highlights

The Innate Defense Regulator SGX94 acts on tissue-resident host immune cells

Innate Defense Regulators have broad-spectrum activity against bacterial infections

Innate Defense Regulators modulate inflammatory responses

Innate Defense Regulators are not directly antibacterial

Innate Defense Regulators complement the action of antibiotics

Abstract

Innate Defense Regulators (IDRs) are short synthetic peptides that target the host innate immune system via an intracellular adaptor protein which functions at key signaling nodes. In this work, further details of the mechanism of action of IDRs have been discovered.

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