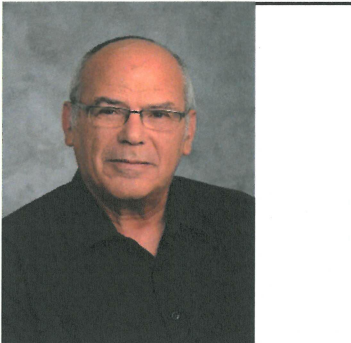


**Abstract - Presentation for the Workshop " Early Discovery of New Antibiotics"
Paris 12-13 January 2017**

Name of speaker:	Aharon Gedanken
Name of presentation:	Resluts obtained in the NPERDMDR project



Abstract: The partners of NPERDMDR project have attempted different approaches to eliminate resistance bacteria. The first approach was based on previous work demonstrating the ability of metal oxides such as ZnO, CuO, and Zn_{0.11}Cu_{0.89}O to eradicate resistant bacteria. Following this attempt aqueous colloidal solutions of these oxides were prepared and examined for killing of resistance bacteria. Negative results were obtained. Sonochemistry used by us can synthesize NPs of antibiotic. NPs of tetracycline were prepared and deposited on graphene oxide. These NPs demonstrated efficient killing of TET resistant *S. aureus*. Positive results were also obtained for the composite of Lignin-Ag, and Lignin ZnO. Spheres made of antibiotic compounds encapsulating commercial antibiotic compounds showed also promising results. The eradication mechanism is under study.