

IMSA

PRESENTS A SPECIAL EVENING ON

MATHEMATICS & BIOMEDICINE

Location

University of Miami
Newman Alumni Center, First Floor
6200 San Amaro Drive
Coral Gables, FL 33146

Time

5:30pm

Speakers

Dr. Mina Teicher

Dr. Gabriela Olmedo

Abstract

Math and Nature

Mathematics is everywhere! In man made systems and in God made systems. In this talk Dr. Teicher will demonstrate appearance of mathematical forms and logic in nature (humans, plants, stones,...). More over, she will describe practical application of math to medicine and to the understanding of the human brain.

Microbial Communities, from Modelling to Understanding Ecological Processes

Why would researchers from biology, physics and mathematics join to study invisible microorganisms? Bacteria organize typically in complex communities that are not only essential for all the biogeochemical cycles on Earth and our health. They also hold clues to the story of life. Two crucial questions in biology are: How can thousands of species coexist in communities and what the rules are for their organization.