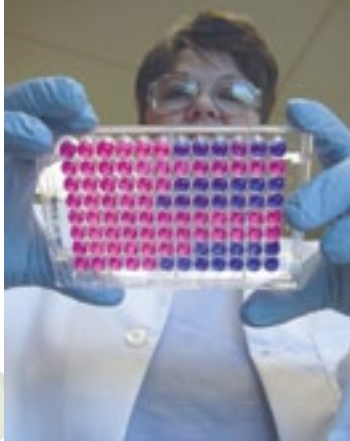


**MICROBIOLOGY**  
**LABORATORY SERVICES**  
**INTEGRAL TO**  
**THE DISCOVERY,**  
**DEVELOPMENT,**  
**AND REGISTRATION**  
**OF NEW**  
**ANTIMICROBIAL**  
**AGENTS**



**MICROMYX**





**MICROMYX IS A MICROBIOLOGY SERVICES COMPANY SPECIALIZING IN ANTI-INFECTIVE DISCOVERY AND DEVELOPMENT FOR THE PHARMACEUTICAL, BIOTECHNOLOGY, AND ANIMAL HEALTH INDUSTRIES. FOUNDED BY PHARMACEUTICAL INDUSTRY INFECTIOUS DISEASE SCIENTISTS, MICROMYX IS A UNIQUE CONTRACT RESEARCH ORGANIZATION THAT OFFERS CLIENTS DOCUMENTED, TOP-OF-THE-LINE LABORATORY SERVICES FROM EXPERTS WHO HAVE SUCCESSFULLY GAINED FDA APPROVAL OF NEW ANTIBIOTICS.**

**MICROMYX WILL CUSTOMIZE THE RELATIONSHIP WITH EACH CLIENT. WE CAN PROVIDE EITHER STAND-ALONE ASSAY SERVICES TO MEET THE CLIENT'S SPECIFIC NEEDS, OR WE CAN ESTABLISH A COLLABORATIVE DISCOVERY PROGRAM FOR EXPLORATORY PROJECTS.**



## **MICROBIOLOGY LABORATORY SERVICES**

Susceptibility determinations for bacteria, yeast, and fungi (aerobes and anaerobes)

High-throughput whole cell and/or enzyme screening of compounds from medicinal chemistry programs

MIC90 determinations (based on a diverse culture collection)

Bactericidal/bacteriostatic assessments (MBCs, time-kill kinetics)

Identification of bacterial isolates

Mechanism of action and resistance development determinations for new antibacterial chemical classes

Cloning, expression, and purification of enzymes

Enzyme assay development and kinetic characterization of inhibition by compounds

Macromolecular synthesis using radioactive precursors

ELISA





## **ANTIMICROBIAL CONSULTING SERVICES**

Using our experience in antibiotic discovery and development, we can review data and provide either an opinion or services regarding the following:

The in vitro and in vivo potency of antimicrobial agents

Due diligence activities

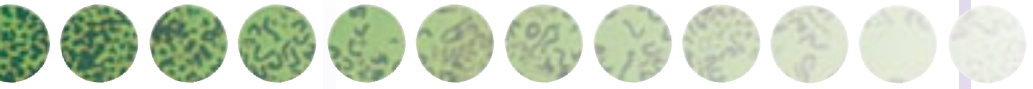
Determining the right indication for potential new products

Planning a strategy to generate the data required for FDA submissions

Planning and/or writing the microbiology section of INDs or NDAs

Representing the client in FDA, NCCLS, MRP, or other approval processes

Identifying other key antimicrobial R&D service providers (in vivo efficacy, ADME, toxicology, etc.) and monitoring their activities for the client



## **LABORATORY DESCRIPTION: KEY FEATURES**

Diverse collection of bacterial and fungal clinical isolates

4,000 square feet of laboratory and office space

Multimek and Biomek robotics platform

Fully equipped microbiology laboratory

Gloveless anaerobe chamber

Multiple PCR machines

Nucleic acid electrophoresis equipment

Protein purification/analysis equipment

Spiral gradient maker

High speed, microtube, and ultracentrifuges

Liquid scintillation counter



## **DEAN SHINABARGER, PH.D., CEO**

- 7 years as Micromyx CEO, interacting with clients to design and conduct studies
- 12 years antibacterial discovery research experience at Pfizer, Pharmacia and Procter & Gamble
- Extensive experience leading multidisciplinary teams to discover and develop antimicrobial agents
- Expertise in biochemistry, molecular biology, microbiology
- Key areas of interest include new target identification/validation, mechanism of action and resistance development of antimicrobial agents

## **CHRIS PILLAR, PH.D., CHIEF SCIENTIFIC OFFICER**

- 5 years preclinical microbiology at Eurofins Medinet
- Expertise in microbiology, antibacterial pharmacology, molecular biology

## **STAFF**

Micromyx is staffed by scientists who have big pharma infectious disease research and development experience.

## **MICROMYX, LLC**

Southwest Michigan Innovation Center

4717 Campus Drive  
Kalamazoo, MI 49008  
Tel. (269)372-3758  
[www.micromyx.com](http://www.micromyx.com)