

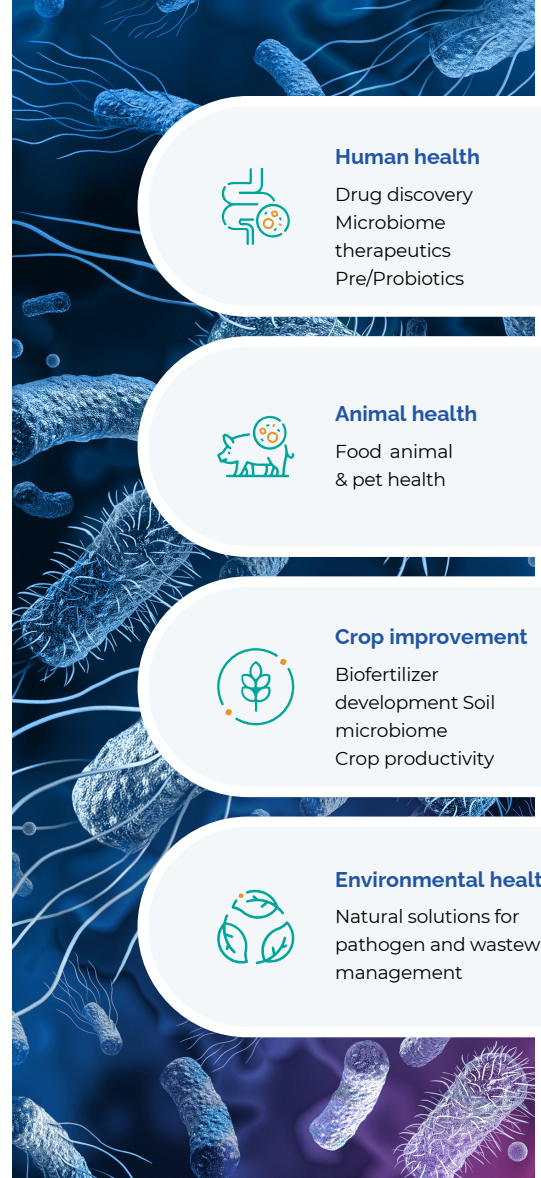
Pushing the boundaries of microbiome science

Our understanding of how microbiomes influence human health, the environment, and agriculture has been limited by traditional culture techniques that are labor-intensive and often unsuitable for some microbial species.

The Prospector® is a high throughput, rapid microbial isolation and cultivation platform that accelerates your workflows and enables the study of microbes outside the Petri dish.

Accelerate discovery with the Prospector®

- ✓ Sort one bacterium per nanoscale cultivation well
- ✓ Grow thousands of micro-colonies in parallel arrays
- ✓ Build diverse isolate libraries
- ✓ Automatically pick and transfer isolates into a standard multi-well plate
- ✓ Isolate and grow rare and slow-growing microbes
- ✓ Compact design enables benchtop or anaerobic chamber use



Human health

Drug discovery
Microbiome therapeutics
Pre/Probiotics



Animal health

Food animal & pet health



Crop improvement

Biofertilizer development
Soil microbiome
Crop productivity



Environmental health

Natural solutions for pathogen and wastewater management

PETRI DISHES VS PROSPECTOR®

More microbial isolates in less time.

Hands on time for 2400 isolates



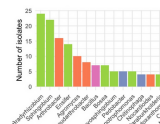
14 hours
96 Petri dishes



3 hours
4 Arrays



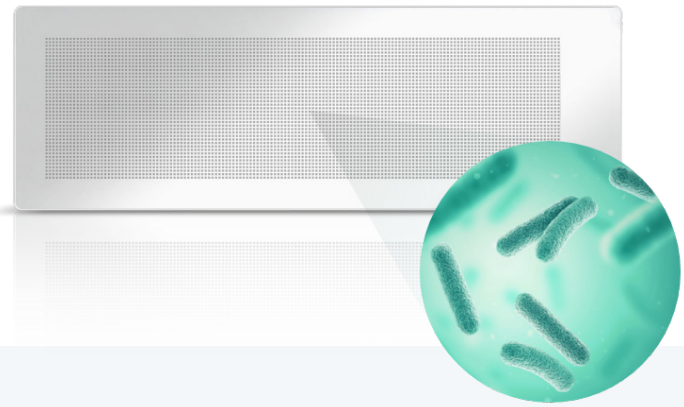
See our [case study](#) showing how the Prospector enabled the isolation of unique species from a high complexity microbiome sample.



View an example of the great diversity of [microbes isolated](#) with the Prospector.

Technology for a new era in microbial discovery

Live-cell cultivation array technology that enables rapid generation of diverse microbial libraries.



The Prospector performs microbial isolation and cultivation using an automated workflow.



*Example sample types: Feces, Soil, Plant, Rhizosphere, Foods

Advancing Microbiome Science

"Prospector allowed our scientists to spend time on research instead of tedious, repetitive tasks. Generating an isolate library in months versus years will greatly accelerate discovery of Actinobacterial strains that could improve fitness of an important crop such as *Sorghum bicolor*."



Devin Coleman-Derr, Ph.D.

Principal Investigator, Plant Gene Expression Center, USDA-ARS and Adjunct Assistant Professor, Plant and Microbial Biology Department, UC Berkeley

"By integrating high-throughput cultivation with multiplex qPCR-based screening the Prospector platform enabled rapid isolation of target organisms known to be enriched in stem cell transplant patients who did not develop graft-versus-host disease. The system solves the challenges inherent in traditional Petri-dish method of blind selection of colonies using a manual and time-consuming workflow. We look forward to analyzing the isolates for short chain fatty acid production, doing ex vivo/in vitro immune profiling to look for induction of Treg cells, and ultimately testing them in a preclinical GVHD model."



Dr. Andrew Koh

Associate Professor, Director of Pediatric Hematopoietic Stem Cell Transplantation UT Southwestern Medical Center

Ready to learn how the Prospector can support your research?



[Learn more](#)



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