



# RUTGERS

THE STATE UNIVERSITY  
OF NEW JERSEY

 OUR MISSION CALLS FOR  
COLLABORATION WITH INDUSTRY  
AND ENTREPRENEURS

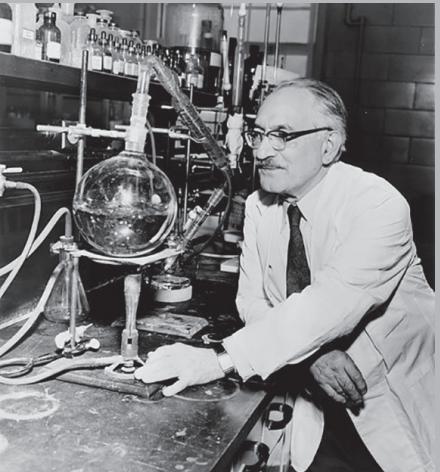
The Office of Research and Economic Development leads Rutgers' efforts to help grow our state's economy through industry-sponsored research, technology commercialization, and entrepreneurial support. To that end, we created a Corporate Engagement Team, which you can find on our website, [businessportal.rutgers.edu](http://businessportal.rutgers.edu).

With a \$500,000 federal grant, the Office of Research

RUTGERS  
250

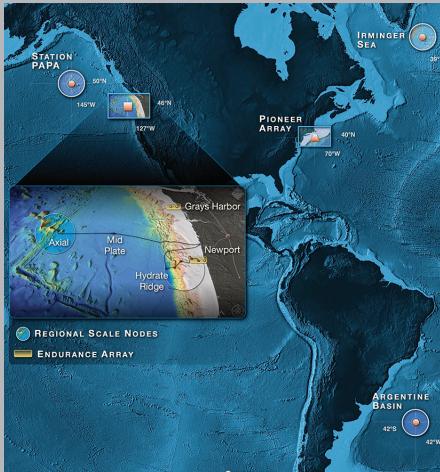
and Economic Development is working on a strategic business plan for Innovation Park at Rutgers. To be located just across the Raritan from New Brunswick on Livingston Campus, it would be a distinctly new approach to an on-campus locus for industry collaboration. One of the first elements, a high-performance computing hub, is already nearing completion.

Adding to its singular status as The State University of New Jersey, Rutgers is celebrating its 250th anniversary this year. Learn more at [250.rutgers.edu](http://250.rutgers.edu).



## RUTGERS RESEARCH: A LONG AND PROUD HISTORY

When Rutgers began life 250 years ago, the concept of land-grant universities was a century away. But research was integral to Rutgers early on and grew steadily, with a monumental event in 1952. That's when Prof. Selman Waksman was awarded the Nobel Prize "for his discovery of streptomycin, the first antibiotic effective against tuberculosis."



## BIG DATA FROM UNDERSEA SENSORS

Rutgers has a new \$12 million contract from the NSF-funded Ocean Observatories Initiative to design, build, and operate the OOI's Cyberinfrastructure. The system will collect, store, and share data from over 800 instruments deployed among seven arrays in the Atlantic and Pacific, linking marine infrastructure to operators and a global community of users.



## RAPID EBOLA TEST FUNDED BY NIH

A Rutgers researcher received a \$640,000 NIH grant to develop a rapid test to diagnose Ebola and other viruses that can cause symptoms similar to Ebola. Dr. David Alland, professor of medicine, says health workers would be able to take the test to small villages and other remote locations where the spread of Ebola has been especially rampant and diagnose patients where they live.

## STARTUP AT RUTGERS TO DEVELOP PROMISING APPROACH TO CANCER TREATMENT

BioMotiv, a drug-development accelerator, has created a startup, Z53 Therapeutics, to develop new agents for treating p53-dependent cancers using a Rutgers technology. The company has licensed IP from the laboratory of Dr. Darren Carpizo at Rutgers Cancer Institute of New Jersey and the development work is being conducted in university labs. The p53 protein has a central role in suppressing tumor formation.



## SUPPLY CHAIN MANAGEMENT TEAM IN NEWARK HELPS GOVERNMENT & INDUSTRY

Kevin Lyons, associate professor in the Rutgers Business School (RBS), and his supply chain management students in Newark worked with PSE&G's purchasing staff and the City of Newark's various procurement divisions to streamline the city's purchasing processes and make contract awarding more efficient and timely. The RBS Center for Supply Chain Management recently launched its Newark Anchor Institution Procurement program, which matches local business and anchors such as RWJBarnabas Health Inc. Lyons says the program will improve supplier diversity, sustainability, and economic development, "with a healthy dose of social benefit."



## SUPPORTING WORK ON CONTINUOUS MANUFACTURING FOR PHARMA

Janssen Supply Chain, a unit of Johnson & Johnson, last year furthered its strategic collaboration with Rutgers' School of Engineering by furthering its investment to over \$6 million to expand ongoing research efforts in continuous manufacturing techniques for pharmaceuticals. The FDA awarded \$5 million in grants to the continuous manufacturing research group based at Rutgers that is working with the federal agency on associated regulatory considerations. The technology is expected to enable companies to deliver medications to patients more quickly with less waste and lower manufacturing costs.



## RUTGERS SCARLET LETTUCE, A SUPERFOOD, HITS THE MARKET

U.S. consumers no longer have to be satisfied with the nutritionally lightweight lettuce typically found in stores, now that Rutgers Scarlet Lettuce has hit the market. Created by Prof. Ilya Raskin, the burgundy-colored lettuce delivered a significant decrease in blood glucose and insulin resistance compared to regular lettuce when fed to diabetic mice.

## FAST FACTS

- ▶ Rutgers' annual R&D expenditures total \$677 million, ranking us among the top 20 public universities nationally.
- ▶ Rutgers-New Brunswick's \$644 million in R&D expenditures ranks #7 among the 14 Big Ten universities.
- ▶ Rutgers is among the top 50 universities for innovation worldwide on Reuters' global list of the Most Innovative Universities.
- ▶ Rutgers innovation has led to more than 60 currently active startup companies. One is TYRX, a medical device maker in Monmouth Junction that Medtronic purchased for more than \$160 million.
- ▶ Rutgers ranks among the Top 100 Worldwide Universities Granted U.S. Patents.
- ▶ The university supports approximately 350 clinical trials at any given time.



### Rutgers Research Facilities:

- ① Center for Sustainable Agriculture at Snyder Research & Extension Farm
- ② IR4 Project: Center for Minor Crop Pest Management
- ③ Rutgers NJAES EcoComplex
- ④ Rutgers Agricultural Research and Extension Center
- ⑤ Rutgers Food Innovation Center
- ⑥ Haskin Shellfish Research Laboratory
- ⑦ Cape Shore Laboratory (Green Creek)
- ⑧ New Jersey Aquaculture Innovation Center
- ⑨ Meadowlands Environmental Research Institute (MERI) Laboratories
- ⑩ Adelphia Plant Science Research & Extension Center
- ⑪ Rutgers Fruit & Ornamental Research Extension Center
- ⑫ Philip E. Marucci Center for Blueberry & Cranberry Research & Extension
- ⑬ Rutgers University Marine Field Station
- ⑭ Jacques Cousteau National Estuarine Research Reserve
- ⑮ Institute of Marine and Coastal Sciences Satellite Offices (Sandy Hook)