bio science

16TH EDITION OCT.7-11

A Spark for Socioeconomic Growth

Biociencia INDUNIV

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BIO Alliance Puerto Rico

INDUNIV
INDUSTRY UNIVERSITY RESEARCH CENTER, INC.

Educational Infrastructure Committee
The Puerto Rico Life Science Clusters

CARIBBEAN BUSINESS | SPECIAL FEATURE
OCTOBER 3, 2019

Latin Media House | GRUPO LMH

A Message from the Board Chair

BY DORCAS YAMILA LÓPEZ–LÓPEZ

It gives me great pleasure to open the 16th edition of Bioscience Week in Puerto Rico with the theme: "Bioscience: The Spark for Socioeconomic Growth." At Induniv (Industry & University Consortium), we are delighted about the planned events across the island to promote the life sciences and engineering fields as engines for local socioeconomic growth. This platform, among others, helps create an ecosystem that bridges industry-academia-government strategies and encourages strong collaboration within these sectors. In addition, this is an opportunity to showcase accomplishments from academia and industry and for the public to learn about such advancements and opportunities that are available in these fields.

Founded in 1985, Induniv's mission is to position Puerto Rico as a global best-practice location for the life science industry through the manufacturing, academic and government sectors.

Puerto Rico, as in many other jurisdictions, is at the center of economic, political and social forces that require focused and organized efforts to channel those areas to benefit our development and economic growth. For many decades, the pharmaceutical and biotechnology industries have been major pillars in our island's economy. Puerto Rico has more than 50 years of experience in the manufacture of biopharmaceutical and medical device products. Of the world's top 15 biopharmaceutical products, eight are manufactured on our island. This is a testament to the scientific and technical capabilities of our most valuable resource, our people, and we are proud of the contributions of our local universities in the development of academic programs and curricula that nourish the talent of Puerto Rico's biopharma and medical devices industries for many years.

The global life science sector is being transformed at an accelerated pace and will see a new era with a digital mindset and the adoption of transformative technologies that apply artificial intelligence (AI) and connected smart devices (IoTs), among others, that will revolutionize the diagnoses and treatment of diseases. Gene and cell therapies are also in continuous growth. As we move forward into this exciting future, it is vital to provide our students new knowledge and capabilities to compete as our most valuable asset in this new era.

Bioscience Week focuses on showcasing and recognizing students' and industry professionals' academic and research work in the life sciences and engineering fields. This year, and for the first time, the Bioscience Week celebration is truly honored to present one of the recipients of the Nobel Prize in Chemistry in 2008, Dr. Martin Chalfie, at the UPR Humacao campus. For the fourth-consecutive year, the "Caras de la Biociencia en Puerto Rico Award" ("Faces of Biosciences in Puerto Rico Award") will be presented. This recognition goes to individuals who have demonstrated leadership and social commitment in the development of Puerto Rico's life sciences sector.

Join us during this week and learn more about the contributions our talented people have made to the worldwide life sciences sector.

Dorcas Yamila López-López is the board chair of Induniv Research Center Inc.

AL DÍA CON LA COMUNIDAD

INICIATIVAS EDUCATIVAS QUE IMPACTAN VIDAS

27 años

COMPROMETIDOS CON LA EDUCACIÓN Y LA COMUNIDAD PUERTORRIQUEÑA

LA FUNDACIÓN AMGEN FELICITA A NUESTROS ALIADOS QUE HACEN LA DIFERENCIA:

- **Alianza para un Puerto Rico sin Drogas,** *Reporteros Positivos*
- **Universidad de Puerto Rico, Recinto de Mayagüez,** *Amgen Biotechnology Networking Sessions & BioTalents*
- **Centros Sor Isolina Ferré,** *Ciencia Móvil*
- **Universidad de Puerto Rico, Recinto de Humacao,** *Amgen Biotech Experience*
- **EcoExploratorio:** *Museo de Ciencias de Puerto Rico*
- **G Works, Inc.,** *STEM's Up to the Challenge*
- **Boys and Girls Clubs of P.R.,** *Ruta de Vida*

AMGEN AGRADECE EL COMPROMISO DE:

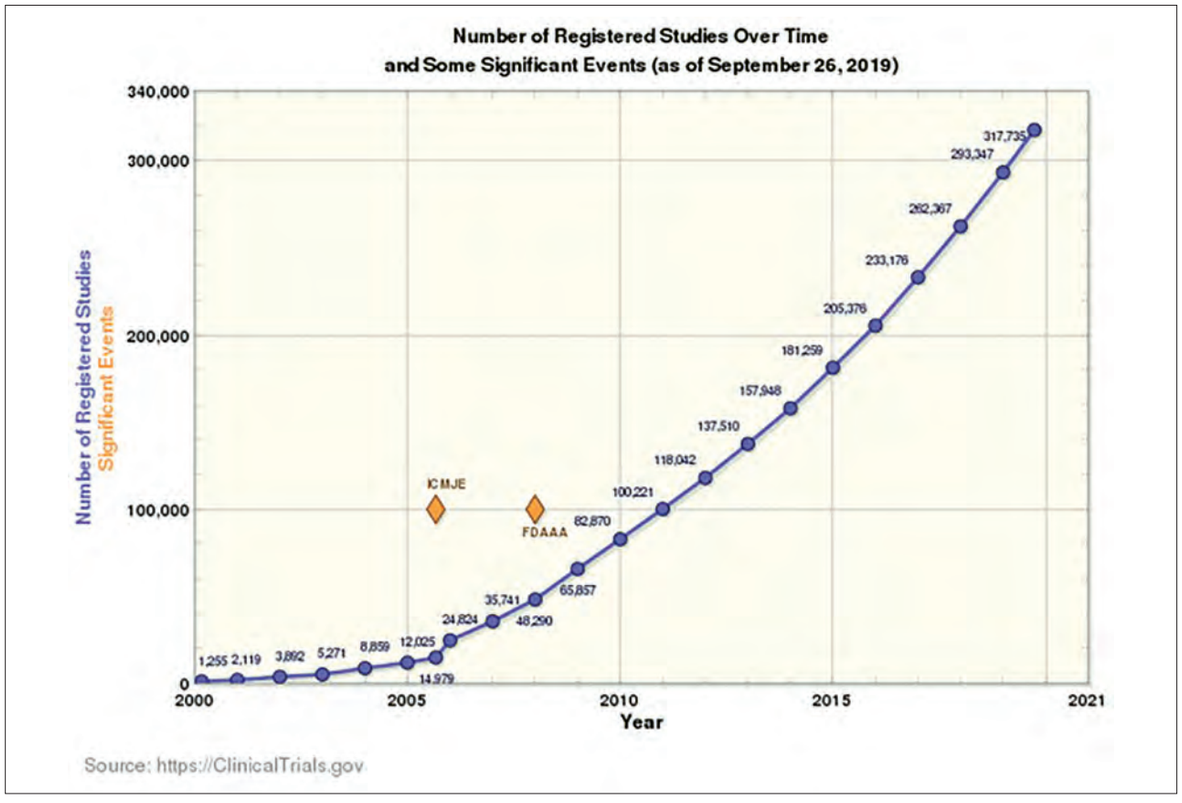
- **Puerto Rico Institute of Robotics** *(PRIOR)*
- **Puerto Rico Composta**
- **Fondos Unidos de P.R.**
- **Centro Criollo de Ciencias y Tecnología del Caribe** *(C3TEC)*
- **Industry University Research Center** *(INDUNIV)*

¡GRACIAS!

AMGEN®

'Bioscience Spark's Socioeconomic Growth: Puerto Rico's Challenges & Opportunities'

BY IVÁN LUGO–MONTES, EXECUTIVE DIRECTOR INDUNIV



The biopharmaceutical industry continues to grow globally above the general industry rate. This growth is primarily due to innovation with new drugs and therapies. These new products not only treat conditions that alleviate human suffering, but also cure those diseases once thought uncurable.

Although biotechnology has been known for centuries, the modern biotechnology industry emerged in the 1970s, based largely on a new recombinant DNA technique whose details were published in 1973 by Stanley Cohen and Herbert Boyer. In 2001, the sequence of the human genome was published in Science and Nature, making it possible for researchers all over the world to take a leap in developing treatments. Presently, there are 141,713 active drugs and biologics clinical trials in the U.S. After significant investments, just a few of these entities will obtain U.S. Food & Drug Administration (FDA) approval, but knowledge will be gained.

It is interesting that the first gene therapy treatment performed successfully on a 4-year-old girl suffering from an immune disorder was approved by the FDA in 1990. Now, gene and cell therapies accounts for 372 gene therapies in clinical trials during the first quarter of 2019. Of this, 58 percent is in Phase II, 33 percent in phase I and nine percent in Phase lll (Regenerative Medicine Global Data Report, May 9, 2019). New immunotherapies and advances in technologies such as CAR-T and BiTE, allow for an expedited pathway for regulatory approval that entices the development of treatments and cures for rare and orphan diseases and illnesses. This therapy presents a manufacturing challenge as they move from autologous therapies to an allogenic process to reach larger populations.

Since the first pharmaceutical plant was established in Puerto Rico six decades ago, the industry has grown to represent one-third of the island's gross domestic product and about 68 percent of the island's exports. In its 60th year of bioscience history, the industry has attracted investments in new technologies for manufacturing blockbuster products, distributed in more than 85 countries. This was possible by adapting emerging technologies, timely technology transfers, assuring compliance with optimal performance metrics and flowless product launches. As the new generation treatments and therapeutics are developed, Puerto Rico once again is at a crossroad, facing new business models and U.S. policy changes that have an impact on our industry competitiveness.

Some of the most recent international changes include: Trump's tax reforms, which shorten the gap between the foreign controlled corporations established in P.R. and the U.S.; followed by the Internal Revenue Services' potential elimination of the 4 percent tax credit on the local excise tax without eliminating Act 154 of 2011; increase mergers & acquisitions; and more recently, Puerto Rico's location risk due to fragile infrastructure and worsening weather conditions. If we do not act quickly, all these factors could have a significant impact on decisions about future expansions in Puerto Rico.

Our universities prepare the best engineers and scientists that feed our industry and develop a new generation of medicines & therapies. We possess a solid supply chain of goods and services, competitive incentives and proximity to markets. Our institutions most rapidly adapt to new technologies such as artificial intelligence (AI), Internet of Things (IoT), machine learning, process analytics, 3D printing robotics and others, whether the source of knowledge is laboratories and incubators or the thousands of emerging companies looking for a competitive ecosystem that provides the intellectual, social, economic and state-of-the-arts laboratories to catalyze business growth through knowledge creation.

Although the P.R. Bioscience model has been successful in attracting large corporations, it is also important to attract and develop emerging companies. They represent about 70 percent of the innovation in bioscience. Understanding the importance of this industry to Puerto Rico's socioeconomic well-being, the government needs to regain the industry's trust, improve the utilities' resiliency/cost, and target promotions to retain, grow and attract emerging or large life sciences companies.

Of the about 900,000 Puerto Rico jobs, the Bioscience Industry—represented by Pharmaceuticals, Medical Devices, Ag-Bio, Medical Research and Labs—generate more than 150,000 direct, indirect and induced jobs, and contribute one-third of the government's tax revenues.

The Bioscience Industry represents Puerto Rico's best asset for economic growth. Only by working together—the government, universities and industry—can we can grow this important economic sector of Puerto Rico.

Universidad Politécnica Receives Important Scholarship

BY CB STAFF

Universidad Politécnica de Puerto Rico (PUPR by its English initials) was awarded an important scholarship from the U.S. Economic Development Administration (EDA), an office affiliated with the federal government's Department of Commerce.

The grant, for $329,086, will offer the opportunity to establish a pilot program: "The Capstone Startup Skills Initiative." The program will first offer the opportunity to various faculty members from Georgia Institute of Technology (Georgia Tech) to visit Puerto Rico during October to train professors from PUPR's Engineering Department on evidence-based entrepreneurship (EBE), so they may include the EBE methodology in their capstone courses or end degree projects.

The professors from the PUPR will then offer specialized capstone courses for the engineering students that will lead them to present a final project they could bring to industry, transforming the idea into a startup.

The head of the project for the PUPR is Dr. Ángel E. González-Lizardo, in collaboration with Dr. Zayira Jordan-Conde, Dr. Carlos Alvarado-Díaz and José A. Morales.

"At our institution, we count on a faculty committed to offering our students a complete educational experience, and with these cutting-edge programs, we aim for students to fully develop everything they have learned so they are able to find success with innovative business ideas and can support the island's economy," said PUPR President Ernesto Vázquez-Barquet. "We look forward to continue working with Georgia Tech, which is a leader in evidence-based entrepreneurship and engineering, and applying that expertise and incorporating that learning into our programs."

> At our institution, we count on a faculty committed to offering our students a complete educational experience, and with these cutting-edge programs.
>
> —PUPR President Ernesto Vázquez-Barquet

> The Amgen Bio Talents program demystifies the biomanufacturing workplace for students by exposing them early in their career paths to the industry environment..."

Amgen Bio Talents: Years of Biomanufacturing Experiences for Students

SPECIAL TO CARIBBEAN BUSINESS

After more than a decade of strategic alliances, Amgen—one of the world's leading biotechnology companies—and the University of Puerto Rico's Mayagüez campus (RUM by its Spanish acronym) joined forces to address the development of a life sciences professional community in Puerto Rico. The result: The Amgen Bio Talents program. This islandwide initiative has the objective of exposing undergraduate students to a hands-on experience where they can learn about the latest trends in biomanufacturing and become familiar with trends in the field.

According to Dr. Rosa Buxeda, RUM professor & director of Amgen's Bio Talents program, "Teamwork in an interdisciplinary environment is essential in a biomanufacturing facility and this key factor is a major driver of the Amgen Bio Talents program-learning experience." She explained that students are able to address the laboratory experiences as teams. Participants are also mentored by interdisciplinary faculty with strong industrial experience, who are responsible for developing and implementing the student learning modules. The participants' learning process is assessed through pre- and post-tests.

"The Amgen Bio Talents program creates a strategic synergy through Amgen's Biotechnology Networking Sessions initiative, through which Amgen Associates, in collaboration with [RUM], visit other UPR system campuses and private institutions across the island to enable students to create networks with other students and industry members, providing them a better understanding of the field of biotechnology," Dr. Buxeda explained.

The professor indicated that the Amgen Bio Talents program has been expanded through the establishment of the Seminar Series in Current Trends in Biomanufacturing. "This approach provides the academic community an understanding of the innovation ecosystem associated to upstream and downstream manufacturing, as well as technology such as RNA interference, oncolytic immunotherapy, drug conjugates, fusion proteins, among others," Dr. Buxeda added.

Throughout its first eight years of incorporation, the program has benefited undergraduate science and engineering students from several University of Puerto Rico campuses including Río Piedras, Arecibo, Humacao, Ponce, Bayamón, Aguadilla and Cayey. The program has also had participants from local private universities such as Inter American University (Universidad Interamericana), Pontificia Universidad Católica de P.R., Universidad Central de Bayamón and Universidad del Turabo.

This year alone, more than 600 undergraduate students across the island have been given the opportunity to experience a unique immersion program in biomanufacturing and participate in the seminar series, right here on the island. In the workshops, these future professionals participate in an 18-hour hands-on experience in key areas, such as aseptic behavior in cleanrooms, genetic modification of cells and scale-up fermentation and purification of a recombinant protein. Furthermore, students become familiar with career paths in biomanufacturing, helping them to choose their future professional careers wisely.

Students who participate in the program represent diverse fields of science, including biology, chemistry, microbiology, biotechnology, physics and engineering. In this last field, there are students who major in chemical, mechanical, civil, computer & electrical, and industrial engineering.

"Overall, Amgen Bio Talents contribute to a generation of motivated students with a passion for life science-related careers by providing them a unique exposure to an area in biomanufacturing that is not traditionally taught in their academic curricula," Dr. Buxeda said. The professor added that one of the most important elements of the program is that it demystifies the biomanufacturing workplace for students by exposing them early in their career paths to the industry environment by learning about the biomanufacturing processes, fundamentals and their applications.

Dr. Buxeda said students who participate have expressed their gratitude and the deep impact it had on their academic experience and future paths as professionals. "Many have indicated that the program exposed them to a new world that helped them clarify their goals for the future. Others had said it has been the most enriching experience within their undergraduate studies since it exposed them to the realm of biotechnology, but particularly to the world of industry world," the professor said.

Escalate Nears a Decade of Continuous Innovation

BY MARIO BELAVAL DÍAZ

Puerto Rico company Escalate Sciences is close to celebrating its 10th anniversary with new services platforms, expansions beyond Puerto Rico's shores and a constant commitment to delivering excellence in customer service.

"We are a client-oriented organization and integrate the voice of the customer in our strategic plans. With this in mind, we launched a new web image on www.escalatesciences.com, new offices in [the state of] Florida, and realigned service platforms to consolidate focus/expertise groups for the benefit of our clients and resources," said Dr. Edgar Torres, president of Escalate Sciences & Escalate Life Sciences. "We are proud and honored about the service opportunities that our clients have awarded us for the past 10 years within the pharmaceutical, medical devices and biotechnology industries."

Dr. Torres explained that the new dynamic web image reflects a call to action, featuring videos, as well as displays the new service platforms that were consolidated into six focus, or expertise, areas: sciences, engineering, quality systems, validation & qualification, project management office and logistics/supply chain.

"These service-expertise areas will continuously enhance the client experience and target specific recruiting and sourcing needs," Dr. Torres said. "Our talent acquisition and recruiting team is actively engaged with the new platforms to enhance communication with our resources, potential new team members and clients."

As a client-oriented organization, Escalate Sciences "strives to provide excellence in customer service and staffing/consulting solutions to our clients in a cost-effective way," Dr. Torres explained.

"From our side, every client will experience the responsibility, professionalism and sense of urgency to fill their staffing and consulting needs with the right candidate at the most competitive cost," he said.

Escalate Sciences' scope has ranged from Puerto Rico to the Caribbean region, the mainland U.S., Canada and Europe, bringing the company closer to its clients, with a growing resource base that allows the company to provide the right resources, and at the right place, time and cost," Dr. Torres assured.

"Expansion of our operations was part of a strategic plan, work ethic, determination to earn the expansion opportunities and retain them. It is my strong belief that the success of any company lies in its capability to serve its clients, adjust to their needs based on the voice of the customer, and acquire, develop and retain dedicated professionals," Dr. Torres said. "For our new web image, you will see the following phrase: 'Your Success, Our Goal,' which is applicable to both our clients and resources. If we work hard, we will continue to get external credentials and validations, such as being within the Top 3 Companies in the 2018 Caribbean Business Book of Lists. We work for our clients, and compete only with ourselves, to be a better company every day, but the external validation is an indicator that we are on the right track within our market."

Escalate Sciences provides consistent and excellent results to its clients within the life sciences (pharmaceutical, biotechnology, medical devices) industries in such areas as research & development, validation, regulatory compliance, qualifications, engineering, quality systems, and process/engineering/manufacturing design.

> If we work hard, we will continue to get external credentials and validations, such as being within the Top 3 Companies in the 2018 Caribbean Business Book of Lists.

—Dr. Edgar Torres, president of Escalate Sciences & Escalate Life Sciences.

The Evertec Scholarship Program, an initiative celebrating its fifth anniversary, recently awarded more than $160,000 in scholarships.

Evertec Bets on Women's Inclusion in STEM

BY EFRÉN RODRÍGUEZ MARTÍNEZ | ef.rodriguez@cb.pr

The technology company Evertec launched an initiative to increase female applicants from outstanding students in Puerto Rico and Latin America as part of its Scholarship Program in the fields of study related to science, technology, engineering and mathematics (STEM).

As part of the efforts to promote inclusion and equality, Evertec's senior vice president of marketing & innovation, Alexandra López, announced the team that will meet every quarter to work on the program.

This initiative will include several female leaders from Puerto Rico's STEM industry, including Dr. Gretchen Díaz, scientist and program director at Ciencia Puerto Rico; Patricia Ordoñez, associate professor of computer sciences at University of Puerto Rico; and Sofía Stolberg, CEO of Piloto 151.

Díaz was recently selected, along with 125 other women who work in science across the United States and the Caribbean, as an ambassador for the American Association for the Advancement of Science (AAAS), with the objective of motivating the next generation of women in STEM.

"It is extremely important for the private sector to help create the right conditions, so more girls and women take an interest in STEM careers through initiatives such as this one, providing greater visibility for them to serve as role models for future innovators," Díaz said.

Meanwhile, López noted that in 2019, the proportion of applicants between male and female students was still 3 to 1, respectively. Similarly, she said, this is reflected in the workforce, where there is still a big difference in the number of women versus men in STEM industries.

According to the National Science Foundation (NSF), although women comprised 50 percent of the workforce with university degrees in 2018, only 28 percent are in science and engineering nationwide. Similarly, according to the National Center for Women & Information Technology (NCWIT), women account for only 25 percent of computer jobs.

Program celebrates 5th anniversary

The Evertec Scholarship Program, an initiative celebrating its fifth anniversary, recently awarded more than $160,000 in scholarships to outstanding students from Puerto Rico and Latin America in fields of study related to STEM.

The company awarded 135 scholarships this year to students of various ages and industries that are studying bachelor's, master's and doctoral degrees in more than 25 universities from such countries as Colombia, Chile, Uruguay and Costa Rica.

"We are proud to support our future professionals and entrepreneurs, mainly in the STEM industries, which offer great opportunities and possibilities for today's workforce and yield a tremendous impact on the communities we serve. The scholarship program eases the financial burden for students, so they can focus on their studies, develop their skills and reach their goals," said Mac Schuessler, president & chief executive officer of Evertec, during the event held at the Engine-4 co-working space in Bayamón.

Over five years, Evertec has provided more than $500,000 in scholarships to students studying in Puerto Rico, Mexico, Costa Rica, Uruguay, Dominican Republic and other locations. This program mostly seeks to boost present and future workforces in the STEM industry and ease the financial burden on undergraduate and graduate students.

> Evertec Scholarship Program celebrates fifth anniversary, seeks to increase female applicants in the fields of study related to science, technology, engineering and mathematics (STEM).

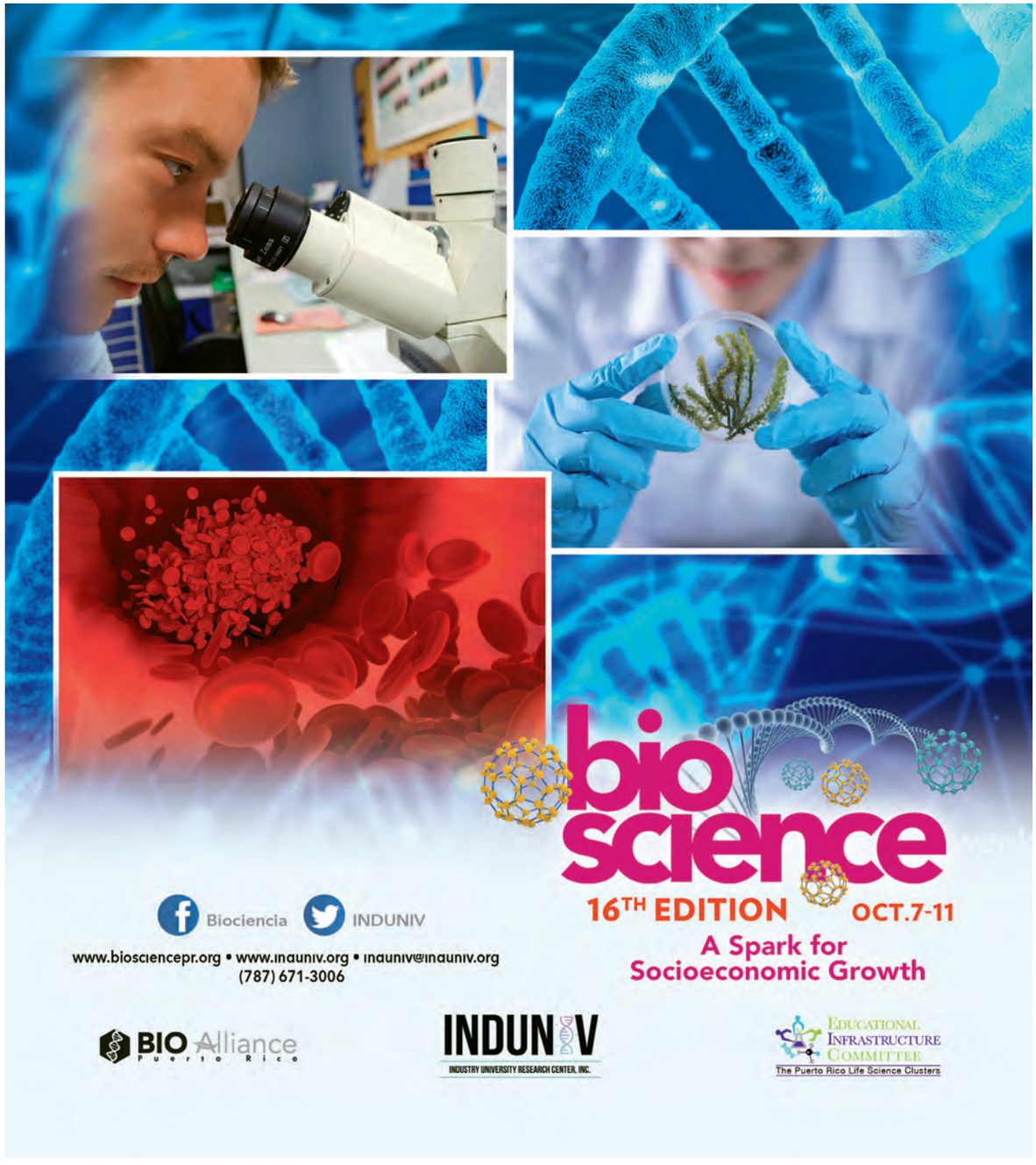
PUERTO RICO'S LARGEST SURGICAL & MEDICAL DEVICES MANUFACTURERS

(Listed According to Number of Full-Time Employees as of 2018)

Current/ Previous Ranking	Company Name Telephone/Fax Internet Address	No. of Full-Time Employees	No. of Manufacturing Plants in P.R.	Main Devices Manufactured	Year Established in P.R.	Top Executive in P.R. Title(s)
1/1	**Medtronic PLC** (787) 561-2200 / (787) 561-2397 www.medtronic.com	4,734	4	Cardiovascular, diabetes, neurological & spine conditions, endo & open surgery	1974	Félix M. Negrón V.P. Operations
2/2	**Stryker P.R. Ltd.** (939) 307-2500 www.stryker.com	875	1	Bedframes, cleaners & disinfectants, orthopedics disposable, personal protection equipment, surgical suction & visualization, pharmaceutical waste, reconstructive surgery	1988	Lourdes De Cárdenas Alfonso V.P. Manufacturing Instruments
3/3	**Boston Scientific** (787) 796-2115 www.bostonscientific.com	771	1	Rhythm management leads S-ICD, 4Front, Acuity X4, neuromodulation leads, DBS Spectra	1989	Iliette Frontera V.P. Operations
4/-	**Abbott Arecibo** (787) 650-1750 / (787) 650-1799 www.abbott.com	712	1	Medical equipment, diagnostics, medical devices, nutritionals, branded generic pharmaceuticals	1943	Gloribel Pérez Pérez Arecibo Site Director Operations
5/-	**Integra Neuro Sciences** (787) 229-3466 / (787) 826-2772 www.integralife.com	320	1	Neurosurgery instruments & products	1989	María I. Santiago Plant Manager
6/-	**West Contract Manufacturing LLC** (787) 747-4900 / (787) 747-5117 www.westpharma.com	155	1	Injection molding, assembly operations	1989	Rubén Aguayo Plant Manager
7/-	**Techno Plastics Industries Inc.** (787) 826-6000 / (787) 826-6020 www.technoplastics.com	140	1	High-precision injection molding	1991	Roberto I. Tous Vela President & General Manager

Chart only includes surgical & medical-devices manufacturing plants.
Number of full-time employees includes part-time employees where applicable (every two part-time employees = one full-time employee).
Unless otherwise noted, all information was provided by the companies or obtained from public documents or websites.
Research by BOL Staff Eylin Fortin Suárez & Yamilis Marcano

Activities Calendar



Thursday, Oct. 3

UPR–Humacao

10:30 AM Plenary Conference
Dr. Martin Chalfie (Nobel Prize 2008)
Columbia University–"GFP: Lighting Your Life"

3 PM Coffee with Dr. Chalfie.
Students and faculty may meet Dr. Chalfie.
Place: UPR-H Theater

Friday, Oct. 4

University of Puerto Rico–RCM/RCMI-Biomedical Innovation Center
Biomedical Innovation Lab: Three-Day Workshop on 3D BioMedical Printing.
Dates: Sept. 20, 27 & Oct. 4
For Premedical students

Monday, Oct. 7–Opening

Protocol Activity: University of Puerto Rico, Medical Sciences Campus

8:30 AM-9:30 AM
Proclamation Reading and Messages from Dignitaries

9:30 AM-10:30 AM
Plenary Presentation–Dr. Cartier Esham, V.P. of Sciences & Policies with the Biotechnology Innovation Organization

10:30 AM–11:30 AM
A Talk Among Biopharma Industry Executives. "The Future of the Biopharmaceutical Industry: Challenges & Opportunities."

11:30 AM–Noon Caras de la Biociencia (Faces of Bioscience) Recognition
Place: Jaime Benítez Rexach Amphitheater

Universidad Ana G. Méndez (UAGM) in Barceloneta

9 AM–Noon Visit from undergraduate Microbiology students. "Introduction to Biotechnology & Bioprocesses Engineering."
Place**:** AbbVie Biologics Ltd. in Barceloneta

Tuesday, Oct. 8

AbbVie Biotechnology (ABL) Barceloneta–Student Visits by Invitation
Dates: Oct. 7 & 8
Project presentation, exhibition of posters and tour of the facilities. Undergraduate science students (UAGM-Barceloneta & UAGM-Turabo) will visit the installations of AbbVie Biotechnology Ltd.–Orientation about the manufacture of drug substances and biological parenterals with a tour of the facilities.
Place**:** AbbVie Biotechnology facilities in Barceloneta

UPR-Humacao (Oct. 8 & 10)
10:30 AM–Noon
Productive Summer–Summer Experience Activity of students of the University of Puerto Rico Humacao
Place: Administrative Sciences Amphitheater

Universidad Ana G. Méndez in Barceloneta
9 AM demonstrations of Yogurt Preparation by students of Food Microbiology. "Intro to Biotechnology and Association of Future Biologists & Biotechnologists."
Place**:** Lab 113

Wednesday, Oct. 9

Universidad Ana G Méndez in Barceloneta

9 AM–Noon Strawberry DNA Extraction Demonstration for

5th-grade students from Antonio Vélez-Alvarado School in Manatí in the Future Biologists, Biotechnologists & Physicians Associations.
Place: Campo Alegre Library in Manatí

AbbVie Biologics (ABL) Barceloneta–Student Visits by Invitation
Presentation, exhibition of project posters and tour of facilities. Some 30 students from undergraduate science programs will visit AbbVie Biotechnology Ltd. installations, with an orientation on the manufacture of drug substances and biological parenterals.
Place**:** AbbVie Biotechnology in Barceloneta

Thursday, Oct. 10

Universidad Ana G. Méndez–Barceloneta
9 AM–Noon Demonstrations to High-School Students on the manufacturing of "Elephant Toothpaste."
Place: Fernando Callejo High School, Manatí

Universidad de P.R.–Ponce
Noon–1:30 PM Presentation by Prabia to students.
Conference: "Advances in Agricultural Biotechnology to Mitigate Climate Change."
Place: Room F-3, Education Department, UPR-Ponce
UPR-Humacao (Oct. 8 & 10)
10:30 AM–Noon Productive Summer-Summer Experience Activity of Students of the University of Puerto Rico–Humacao.
Place: Administrative Sciences Amphitheater

Bristol-Meyers Squibb (BMS)–Humacao
9 AM–Noon Visit by invitation from some 25 bachelor-degree students in science in STEM professions, with presentations and a tour of a laboratory and manufacturing installations.
Place**:** BMS-Humacao

Friday Oct. 11

Amgen-Biociencia a Tu Alcance

8 AM– 2:30 PM Amgen Bioscience Day–By invitation for students and teachers from participating schools. Invited schools include Isabel Flores High School and José Collazo Colón in Juncos and Caguas High School where they may learn and work on educational science activities (STEM) and will visit the movie room for an educational documentary.
Place**:** Centro Criollo de Ciencia y Tecnología del Caribe (C3Tec) Cagua**s**

Universidad Ana G. Méndez–Barceloneta
11 AM–1 PM Agroindustry visit by students in Food & Industrial Microbiology, Bioprocesses Engineering & Introduction to Biotechnology.
Place: Campo Verde San Sebastián

Universidad Sagrado Corazón (USC)-Santurce, San Juan
9 AM–Noon Plenary Speaker & Presentation of investigations for university and high-school students of the Santurce Community.
"A Guide to a Career in the Biotechnology Industry," by Lizaida Pérez, Lilly del Caribe
Mindfulness: "What is this meditation and how it can help my health and life?" by Dr. Peter Barbosa, Universidad del Sagrado Corazón
Place**:** Faculty Room

Bristol-Meyers Squibb–Commercial
9 AM–Noon Visit by invitation of STEM profession university students. Brief conferences, speed coaching & career advise with professionals and leaders from various disciplines.
Place**:** BMS Caparra Guaynabo

Saturday, Oct. 12

Society of Microbiologists of P.R.
9 AM–3 PM www.micropr.org/
Place: Universidad Interamericana–Metro

Thursday, Oct. 17

Universidad de P.R.-Humacao
9 AM–Noon Natural Sciences Investigation Day. Awards students for the best posters.

3 PM–6 PM Ivy League School Visits
Place: First Floor, Natural Sciences Building

National Chemistry Week, Oct. 20 & 26
American Chemical Society National Chemistry Week Celebration–P.R. Student Chapters & P.R.-ACS Section Activities on various university campuses throughout the week
Main Event: Oct. 20 at Paseo de la Princesa, Old San Juan

Sunday, Oct. 20–Chemistry Festival

1 PM–4 PM Exhibits of the Student Chapters of a number of Universities and Campuses as well as High School Chemistry Clubs.
Celebration of the Periodic Table and its Marvelous Metals.
Place: Paseo La Princesa–La Puntilla in Old San Juan

Wednesday, Oct. 25

UPR Centro de Investigación en Ciencias Moleculares (CICiM)
Time: 8 AM–4 PM

8:30 AM-Noon Invited Schools Visit

10 AM-10:30 AM ACS "La Magia de la Química"
1 PM-4 PM Open House to the General Public
Interactive Tables; Laboratories Tour; Talks by Scientists; Exposition of the Science Art Contest organized by CIRE2N
Visit: http://cicim.upr.edu /
Register at: https://forms.gle/QoMpitc3ZVWSfLCa6
Place: 1390 Ave. Ponce de León Cupey, Río Piedras

CARIBBEAN BUSINESS

40 UNDER 40 2019

Who are the Up and Coming Who Keep Puerto Rico Running?

To be considered, nominees must meet the following criteria:

- Under 40 years of age as of December 31, 2019 and works in the private or public sector.
- Works in any of Puerto Rico's leading industries and is part of his/her company's middle or upper management.
- Delivers innovative and effective strategies and initiatives that make a difference. A professional with a sterling track record and an exemplary body of work evidencing leadership throughout entire career.
- Must include a reference from the current company president or direct supervisor and two independent industry sources. Send your references to 4040@caribbeanbusiness.com

DEADLINE FOR NOMINATIONS IS: WEDNESDAY, OCTOBER 2 NOON

Remember to send your references to 4040@caribbeanbusiness.com

Nominees without references will not be taken into consideration. If you were chosen as a 40 under 40 in prior years, you are not eligible to participate

Latin Media House