

THE PIPE-HIGH-TECH ENTREPRENEURIAL TRAINING

treinamento-pipe@fapesp.br

WWW.FAPESP.BR/PIPE/EMPREENDEDOR

The PIPE-High-Tech Entrepreneurial Training, offered by FAPESP, aims to assist companies funded through FAPESP's Innovative Research in Small Businesses program (PIPE in the Portuguese acronym) to develop a robust business model. The goal is to promote sustainable commercial development of the innovative products and services originated from FAPESP PIPE's research projects, generating significant business results. The training methodology is based on Steve Blank's Customer Development and Osterwalder and Pigneur's Business Model Canvas applied to high-tech innovation, similarly to the I-Corps program of the US National Science Foundation.

The São Paulo Research Foundation, FAPESP, has been funding small business research since 1997. The PIPE program focuses on **Innovative Research in Small Businesses**, targeting from startups to medium companies with less than 250 employees. Similarly to the NSF SBIR (Small Business Innovation Research) program, FAPESP's PIPE is divided in two phases. Phase 1 supports proof-of-concept or feasibility assessments, with a duration of up to 9 months. Phase 2 supports the development of the research required to develop the process or product, with a duration of up to 24 months.

THE TRAINNING

The PIPE–High–Tech Entrepreneurial Training selects 21 companies, based on the quality of their proposals and the benefits they could obtain from participating. Each company forms a team of three members. Two of them are nominated by the startup: the Principal Investigator and the Entrepreneurial Lead person for the company. The third member, the Mentor, is assigned by FAPESP from a pool of highly experienced, successful high-tech executives in the State of São Paulo, Brazil.

The training is organized in 4 phases. In Phase 1, the companies prepare their initial business canvas. In Phase 2, the 21 teams will work at FAPESP with the instructors during three days and learn how to interview customers and incorporate their feedback into their businesses. In Phase 3, the teams will conduct dozens of customer interviews in a structured way, adapting their business model as they progress, and have online classes and videoconference sessions with FAPESP instructors. In Phase 4, the teams will meet again at FAPESP in a live session for their final oral presentations.

The training program is based on the Customer Discovery methodology, which is an iterative process of getting out of the office/lab, going to the market to interview potential customers, partners, and competitors, to understand their needs, problems, and difficulties. After each group of interviews, the team evaluates whether the new understanding of the customer needs validates or invalidates the components of its business model. When a team detects that its hypothesis is not valid, they modify the existing business model. This iterative process continues until the team achieves a match between the product/service being offered and the needs of the market. This correspondence is called Product x Market fit.

The program will not only help the 21 startups in enhancing their business capabilities, but also develop, within the State of São Paulo, the expertise on how to apply modern startup engineering methodologies for the development of prosperous high-tech companies.

About 75% of the 105 companies that participated in the first five editions of the PIPE High-Tech Entrepreneurial Training Program revised their business plans to adjust them to market requirements, thereby increasing the likelihood of success.



THE SÃO PAULO RESEARCH FOUNDATION

WWW.FAPESP.BR/EN

FAPESP is a public foundation funded by São Paulo taxpayers to promote the development of science and technology in the state, by supporting research projects in institutions of higher education and research, official or private, which are selected by a rigorous system of analysis based on the peer-review process.

São Paulo has a population of 43 million and generates 30,3% of Brazil's GNP. Under the state Constitution 1% of all state taxes are appropriated to fund FAPESP. The stability of the funding and the autonomy of the foundation allow for an efficient management of the resources that has had a sizable impact: while São Paulo has 22% of the Brazilian population and 35% of the scientists with a doctorate in the country, the state responds for 44% of the country's scientific articles published in international journals.

The effectiveness of research carried out in São Paulo is the combined result of several factors that include the quality of the state's universities and institutes, the productivity of its researchers, high rates of participation by private, São Paulo-based companies that function within the state's R&D outlays, São Paulo's outstanding infrastructure, and the existence of FAPESP, a well-designed state research-sponsoring agency governed, maintained by its directors with excellence and with autonomy over the past half century.

Within this context, in 2017 FAPESP applied \$PPP 514.6 million in \$ purchasing power parity (PPP) in scholarships and grants.

In accordance with the Foundation's funding objectives, 38% of expenditure was earmarked for advancing knowledge, 5,5% was dedicated to supporting research infrastructure and 56,5% was allocated to supporting application-driven research.

FAPESP works in close contact with the scientific community: all proposals are peer reviewed with the help of panels composed of active researchers from the specific area. Many times scientists in São Paulo submit proposals for programs to the foundation which are carefully analyzed and, if deemed strong in academic terms, are shaped by the foundation into research programs that will constitute a set of related research projects in a given area.

Since FAPESP's mandate is to foster research and scientific and technological development in the state, ideas for programs that couple world class research with contributions that will impact social problems are welcome.

INNOVATIVE RESEARCH IN SMALL BUSINESSES PROGRAM

AIMS AND OBJECTIVES

FAPESP's Innovative Research in Small Businesses Program (PIPE), established in 1997, aims to support the development of innovative research projects carried out in small businesses, i.e., companies with up to 250 employees, in the State of São Paulo. Centered on significant scientific and technological problems that have a high potential for commercial or social return, the projects are carried out by researchers who have formal links to the small businesses or who are associated with them for the implementation of the project.



Inovação Tecnológica PIPE

WWW.FAPESP.BR/PIPE

OBJECTIVES

- To use technological innovation as an instrument to increase the competitiveness of small companies;
- To create conditions to enhance the research system's contribution to economic and social development;
- To foster an increase in private investment in technological research;
- To enable the collaboration of small businesses with academic researchers on innovation projects;
- To contribute for the establishment of a culture that values research activities within business environments, technological innovation within small companies, and the employment of researchers in the private sector.

Since the start of PIPE in 1997, more than 2,000 grants have been awarded to companies. In 2017, 269 new projects were approved – one project per working day and 18% more than in the previous year.

Research supported by FAPESP can be consulted at FAPESP Grant Database (www.bv.fapesp.br/en).

More about the research results in the **Agência FAPESP** (www.agencia.fapesp.br/en) and **Pesquisa para Inovação** (www.pesquisaparainovacao.fapesp.br), in Portuguese

COORDINATION

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An electronic engineer and a physicist, Brito Cruz is a professor at the Gleb Wataghin Physics Institute, of the State University of Campinas (Unicamp), where he was the rector from 2002 to 2005.

He graduated in electronic engineering at the Aeronautics Technology Institute of (ITA in the Portuguese acronym). He took a master's degree and a doctorate at Unicamp's Gleb Wataghin Physics Institute. He has been a professor at the Unicamp's Physics Institute since 1982. Presently is a full professor at the Quantum Electronics Department.

Brito Cruz was a visiting researcher at the Quantum Optics Laboratory at the Universitá di Roma, at the Femtosecond Research Laboratory at the Universitè Pierre et Marie Curie. and a resident researcher at the AT&T's Bell Laboratories, in Holmdel, New Jersey, and in Murray Hill, NJ. At Unicamp he was the Director of Unicamp's Physics Institute from 1991 to 1994 and from 1998 to 2002; Pro-rector for Research from 1994 to 1998, and Rector of the university from 2002 to 2005. He was the the President of FAPESP from 1996 to 2002.

Brito Cruz is a member of the Brazilian Academy of Sciences and a Fellow of the American Association for the Advancement of Science. He received the Ordre des Palmes Academiques de France, the Order of the Scientific Merit from the Federative Republic of Brazil and the Order of the British Empire, Honorary (OBE) in 2015.

ADJUNCTS

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Received the degree of Electronic Engineer from the Universidade Federal do Rio de Janeiro (1966), M.Sc. in Electrical Engineering from the Coordenação dos Programas de Pós-Graduação de Engenharia-COPPE/UFRJ, (1967) and Ph.D in Biomedical Engineering from the University of Pensylvania, (1971). Grynszpan was the head of the Department of Biomedical Engineering (1973-1976) and became Full Professor of COPPE/UFRJ (1975).

He became the head of COPPETEC, in charge of the University projects to Industry and Government (1976-1985) and the head of the Technology Innovation Center (1985-1986), to comercialize the University research results. In 1987, he founded the Technological Park of Rio de Janeiro, with 73 companies specialized in IT and Telecom. He, then, became the President of Riotec, the company that managed the research activities of the park. He was ellected as Vice President of The International Association of Science Parks (1986 to 1989).

Grynszpan founded and headed the Brazilian Association of Biomedical Engineering (1971), was a member of the Conselho Tecnico Científico of CAPES/MEC (1975) and Member of the Board of Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq) from 1998 to 2002.

In 1989, he became the President of Motorola in Brazil, where he stayed from ten years and was responsible for bringing and installing Motorola's manufacturing facilities in Jaguariuna, São Paulo. In this plant, Motorola manufactured all cellular phones, radios and pagers sold in Brazil and exported to Latin America.

He became Vice President of Abinee – the Brazilian Electronic Industrial Association, until 2001, Member of the Board of Trustees of FIA – Fundação Instituto de Administração,(2000-2006) and Director of Anpei, the Brazilian Association of Innovative Enterprises, until 2008.

He is a Visiting Professor of the MBA Program of the Fundação Instituto de Administração, Director of the Technology Department of the Centro das Indústrias de São Paulo (CIESP), an organization that supports 8,500 industries in the state of São Paulo, and Member of CONIC – the Council of Innovation and Competitiveness of FIESP – the Federation of Industries of the State of São Paulo.

Grynszpan works as business consultant, specialized in innovation, commercialization of University research and entrepreneurship in Brazil and in the international market. He is now working as a consultant to the University of Virginia.

ADJUNCTS

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Bachelor's degree in Telecommunications Engineering (1970) and Master's degree in Electrical Engineering (1972) from Pontifical Catholic University of Rio de Janeiro. Graduated from Corporative Governance Brazilian Institute as Administrative Counselor (2009).

Served as a college professor. Former President (1990-1994) and currently Emeritus Member of Telecommunications Brazilian Society.

Worked at CPqD (Telecommunications R&D Center), since its creation (1976), in several areas: digital transmission, optical communication, microelectronics, technological and strategic planning.

TELEBRÁS R&D Director (1995-1998), CPqD's President (1998-2015) and CEO of CPqD Technologies&Systems Inc. (2000-2015). During his mandate CPqD created technology based startups with manifold business model in several areas: next generation network, optical communication systems, telecommunications clearing services, radio communication systems, optical sensors, fraud detection and prevention services, integrated photonics devices.

Has been President of the Administrative Board of Telesc, Telebahia, Padtec, Trópico, Sistel, member of the Administrative Board of Telergipe, Algar, Cleartech, Telebrasil, member of Fórum Campinas Foundation Board of Trustees and Director at Telebrasil.

Presently is Research for Innovation Area Coordination at FAPESP, member of TELEBRÁS Administrative Board, startup Mentor, member of Fiesp Competitivity and Innovation Superior Council and Director at Fiesp Telecommunications Division.

Co-founder of Brazil iCorps Institute.

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Bachelors in Business Administration (USP, 1996), MSc in Business and Planning (PUC, 2002) and PhD in Industrial Engineering (Poli-USP, 2008).

Nakagawa is entrepreneurship and innovation professor at INSPER Institute of Education and Research and entrepreneurship director at FIAP (Faculdade de Informática e Administração Paulista).

Works in the field of Entrepreneurship and Innovation, having published 2 books, co-authored another 3 titles and other papers and articles. He is entrepreneurship columnist at O Estado de São Paulo newspaper and Pequenas Empresas, Grandes Negócios magazine.

He also carries out research in the fields of new business creation, innovation management, corporate entrepreneurship and startups. He developed entrepreneurship education programs including Bota Pra Fazer (Endeavor), Inovativa Brasil (MDIC), Empreenda e Conexões (SENAC) and StartupOne (FIAP).

Nakagawa has more than 20 years professional background in industries such as banking, strategic consulting, venture capital, innovation, private equity and education.

TRAINING SUPPORT

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TEACHING ASSISTANT

Rafael Almeida Mattos Brazil Technologist in Computer Networks at Modulo Faculty Escola Politécnica da USP rafmat@usp.br



He worked in retail companies in the manufacturing industry, at the technical support area and IT coordination. During 1999 and 2005 he participated in administrative systems deployments projects, installation projects and expansion of electronic fund transaction networks, point of sale terminals and logistics.

He is currently a member of the web development team in the Information Services Department at Polytechnic School of Engineering in University of São Paulo. He participates in engineering education projects in the role of technical support for videoconferencing and distance learning.

COURSE DATES

PRE-KICKOFF MEETING MARCH 13
KICKOFF WORKSHOP MARCH 19-21

ONLINE CLASSES MARCH 26, APRIL 2

PRESENTIAL CLASS APRIL 9

ONLINE CLASSES APRIL 16 AND 23

CLOSING WORKSHOP MAY 3-4

COURSE EXPECTATIONS

Each team member should commit to attending every planned session of the program. Each team must have two members that can commit to class time plus approximately 15-20 additional hours per week, for the full seven weeks of the program, on customer discovery and exercises outside of class. Additional team members must commit to 6-8 hours a week.

COURSE DESCRIPTION

Customer Discovery is an iterative process of physically getting out of the building to interview potential customers and stakeholders to understand their problems and pain points in the market and in society. These interviews, or experiments, lead to real-world learnings and insights that validate or invalidate key components of the business model, often leading to pivots.

This course will provide teams with real-world, hands-on learning experience with customer discovery and successfully transferring knowledge into products and processes that benefit society. The entire team will engage with industry. You and your team will spend your time talking to and learning from customers, partners and competitors, and learning how to deal with the chaos and uncertainty of commercializing innovations and creating ventures.

This course is about getting out of the building. You will be spending a significant amount of time outside the building, talking to customers and testing your hypotheses about what they want in products and services. We will spend our limited class time on what you learned from talking to customers, not what you already knew coming into the course. Teams should be striving for 15 interviews per week, for a total of 100 interviews by the end of the course.

CLASS CULTURE

We have limited time and we push, challenge, and question you in the hope you will quickly learn. We will be direct, open, and tough – just like the real world. We hope you can recognize that these comments are not personal, but part of the process. We also expect you to question us, challenge our point of view if you disagree, and engage in a real dialog with the teaching team. This approach may seem harsh or abrupt, but it is all part of our wanting you to learn to challenge yourselves quickly and objectively, and to appreciate that as entrepreneurs, you need to learn and evolve faster than you ever imagined possible.

ADDITIONAL RESOURCES

1) Request access to the Course Repository:

https://goo.gl/2nREaG

2) These short videos from Steve Blank provide helpful tips and examples for preparing for your customer interviews.

https://vimeo.com/groups/204136/videos

Pre-Planning Pt. 1	(4'55)
Interviews Pt. 1	(5'40)
Interviews Pt. 2	(3'49)
Asking the Right Question	(2'37)
Assuming you know what the customer wants	(1'56)
Understanding the Problem (the right way)	(3'22)
Customers Lie	(2'37)
The Distracted Customer	(3'12)
Engaging the Customer	(3'37)
Customer Empathy	(2'25)
The User, the Buyer & the Saboteur	(2'24)
Death by Demo 1	(2'18)
Death by Demo 2	(1'45)

For a more detailed explanation of Customer Development and the Lean Startup, here are some short videos of Steve Blank from the Kaufmann Founders School:

- √ www.entrepreneurship.org/Founders-School/The-Lean-Approach/Getting-Out-of-the-Building-Customer-Development.aspx
- √ www.entrepreneurship.org/Founders-School/The-Lean-Approach/Customer-Development-Data.aspx
- $\checkmark www.entrepreneurship.org/Founders-School/The-Lean-Approach/Minimum-Viable-Product.aspx$
- 3) All team members should purchase the textbooks outlined on the following page. The Osterwalder books have free e-version previews, and the Constable book has a full free e-version.



VALUE PROPOSITION AND DESIGN

Alexander Osterwalder, Yves Pigneur, Greg Pernarda & Alan Smith A free download of the first chapter of the book is available at: https://strategyzer.com/books/value-proposition-design



TALKING TO HUMANS

Giff Constable

A free download of the book is available at: www.talkingtohumans.com



BUSINESS MODEL GENERATION

Alexander Osterwalder & Yves Pigneur
A free download of the first chapter of the book is available at:

http://businessmodelgeneration.com/book



THE STARTUP OWNER'S MANUAL

Steve Blank & Bob Dorf

REQUIRED PRE-KICKOFF ASSIGNMENTS

You should watch all of the videos in the "How to Build a Startup" course:

https://www.udacity.com/wiki/ep245/downloads

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You can watch these at your own pace, but it's recommended to have completed the lectures shown below before the kickoff event:

Lecture 1: What we Now Know
Lecture 1.5A: Business Models
Lecture 1.5B: Customer Development
Lecture 2: Value Proposition
Lecture 3: Customer Segments

HIGHLY SUGGESTED PRE-KICKOFF ASSIGNMENTS

The following assignments augment the required assignments, and should be used to provide a greater understanding of the material. At a minimum, we recommend that you scan these readings.

- Business Model Generation pages 14-51
- The Startup Owner's Manual pages 195-199
- "12 Tips for Early Customer Development Interviews" by Giff Constable: (http://giffconstable.com/2010/07/12-tips-for-early-customer-development-interviews)

REQUIRED DELIVERABLES FOR THE KICKOFF WORKSHOP

- 1. A two-slide presentation.

 You *may* be called upon to present to the whole class and will *definitely* present to a group of peers and instructors in a breakout session. See the template provided on the following page.
- 2. Ten or more customer/industry contacts that you hope to interview on Day 2 of the Kickoff Workshop (March 20)

ADDITIONAL RESOURCES

PRESENTATION TEMPLATE FOR THE KICKOFF WORKSHOP

SLIDE 1

Title Slide
Team Name
University or company logo
Product or technology picture & description (1 sentence)
Pictures & names of your team members

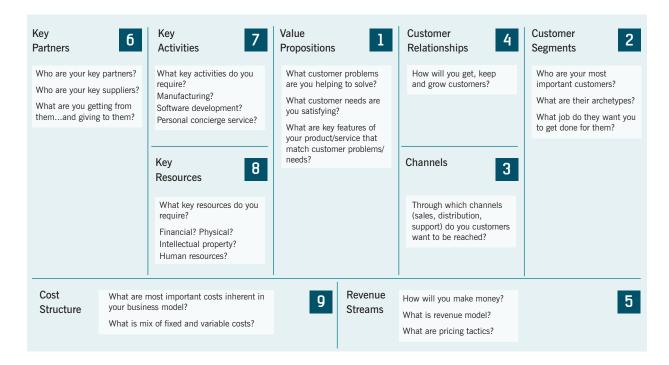


SLIDE 2

Populated Business Model Canvas

It's recommended to create a online template for free at Canvanizer: https://canvanizer.com/new/business-model-canvas

Use the questions in the image below to guide your answers – focus on Customer Segments & Value Propositions



KICKOFF WORKSHOP: SCHEDULE AT-A-GLANCE

DATE	TIME	TOPIC	LOCATION
TUESDAY March, 13	2:00 pm Kickoff meeting with all teams to review requirements, logistics, and to connect mentors to teams		Auditorium
	8:00 am	Registration	Lobby
	8:30 am	Welcome & Introduction	
	8:45 am	LECTURE #1: Using Customer Discovery to Build a Business Model, Customers & Value Propositions	Auditorium
MONDAY	10:15 am	COFFEE BREAK	Lobby
March, 19	10:45 am	Team Introductions: three minutes for each presentations, another two for comments	Auditorium
	12:45 pm	LUNCH	Lobby
	1:45 pm	Welcome & Introduction by FAPESP	Auditorium
	2:00 pm	LECTURE #2: Best Practices for Customer Discovery Interviews	
	3:00 pm	LPC Training	
	3:15 pm	Q & A	
	4:00 pm	Mentor/PI/EL Workshops	
TUESDAY March, 20	All Day	Customer Interviews – in person at customer location	Sao Paulo & surrounding area
		Office Hours (20 min sessions)	
	1:00 pm	Teams will choose one slot based on their interview schedules	Multiuse Room
	8:00 am	Welcome Back, Q&A, Discussion	Auditorium
	8:30 am	LECTURE #3: Channels	
	9:30 am	WebEx Training	
WEDNESDAY	10:00 am	COFFEE BREAK	Lobby
March, 21	10:30 am	Team Presentations – 6 teams in each rooms: 10 minutes for presentations and 5 for comments	Breakout Rooms
	12:30 pm	LUNCH	Lobby
	1:30 pm	Team Presentations – 5 teams in each rooms: 10 minutes for presentations and 5 for comments	Breakout Rooms
_	3:00 pm	Optional Office Hours	Auditorium

ONLINE AND PRESENTIAL CLASSES: ASSIGNMENTS

REQUIRED ASSIGNMENTS

You should watch all of the videos in the "How to Build a Startup" course:

https://www.udacity.com/wiki/ep245/downloads

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You can watch these at your own pace, but you must have completed the lectures shown below by March and April.

Lecture 4: Channels

Lecture 5: Customer Relationships

■ Lecture 6: Revenue Models (Presential Class)

Lecture 7: Partners

■ Lecture 8: Resources, Activities, and Costs

ADDITIONAL ASSIGNMENTS

The teaching team may assign additional short readings or tasks throughout the course as deemed necessary based on the progress of teams.

ONLINE AND PRESENTIAL CLASSES: SCHEDULE AT-A-GLANCE

DATE	TIME	TOPIC
MONDAY 1:00 pm March, 26 2:00 pm (ONLINE) 4:00 pm		Test WebEx Team Presentations * LECTURE #4: Problem Solution Fit Value Proposition Canvas: Customer Profile & Value Map, Customer Pains/Gains
MONDAY April, 2	1:00 pm 2:00 pm	Test WebEx Team Presentations *
(ONLINE)	4:00 pm	LECTURE #5: Customer Relationships & Revenue Models
MONDAY April, 9 (PRESENTIAL)	1:00 pm 2:00 pm 4:00 pm	Test WebEx Team Presentations * LECTURE #6: Key Partners (Presential Lecture Location: inovaBra habitat – Av. Angélica, 2529 – Bela Vista –São Paulo)
MONDAY April, 16 (ONLINE)	1:00 pm 2:00 pm 4:00 pm	Test WebEx Team Presentation * LECTURE #7: Business Model Fit Resources, Activities and Costs: how to build and validate the rest of your business model
MONDAY April, 23 (ONLINE)	1:30 pm 2:00 pm 4:00 pm	Test WebEx Team Presentation * LECTURE #8: Lessons Learned Presentations & Story Videos Overview and directions for the final course deliverables

* TEAM PRESENTATIONS

Teams present their business model canvas in three concurrent tracks. Each team is allotted 12 minutes total to include 10 minutes for presentations and 2 minutes for teaching team comments.

LESSONS LEARNED WORKSHOP: SCHEDULE AT-A-GLANCE

LOCATION: SÃO PAULO RESEARCH FOUNDATION - FAPESP RUA PIO XI, 1500 - ALTO DA LAPA - SÃO PAULO, SP

DATE	TIME		LOCATION
THURSDAY	8:30 am	Welcome Back	Auditorium
Мау, З	9:00 am	Review Videos & Draft Presentations	Breakout Rooms
	10:30 am	COFFEE BREAK	Lobby
	11:00 am	Review Videos & Draft Presentations	Breakout Rooms
	1:00 pm	LUNCH	Lobby
	2:00 pm	Office hours	
FRIDAY	8:00 am	Registration	Lobby
May, 4	8:30 am	FAPESP Introduction of Final Presentations	Auditorium
	9:00 am	Team Presentations: 6 teams	Auditorium
		(10 min presentations / 5 min comments)	
	10:45 am	COFFEE BREAK	Lobby
	11:00 am	Team Presentations: 5 teams	Auditorium
		(10 min presentations / 5 min comments)	
	12:30 pm	LUNCH (restaurants around FAPESP)	
	1:30 pm	Team Presentations: 5 teams	Auditorium
		(10 min presentations / 5 min comments)	
	3:00 pm	COFFEE BREAK	Lobby
	3:15 pm	Team Presentations: 5 teams	Auditorium
		(10 min presentation / 5 min comments)	
_	4:45 pm	Closing Ceremony	Auditorium

LIST OF SELECTED COMPANIES

Company 01: BioSmart Nanotechnology

Name of the project: Inovações para tratamento tópico de Leishmaniose Tegumentar
Entrepreuner: Hélida Gomes de Oliveira Barud / E-mail: helida.barud@gmail.com
Principal investigator: Fernanda Mansano Carbinatto / E-mail: fernanda@carbinatto.com

Mentor: Cláudio Violato Co-mentor: Sérgio Cavalheiro

Company 02: 4tree Agroflorestal Ltda.

Name of the project: Desenvolvimento de uma plataforma computacional para gestão da produtividade

florestal

Entrepreuner: José Henrique Bazani / E-mail: bazani@4tree.com.br

Principal investigator: Arthur Vrechi / E-mail: avrechi@yahoo.com.br

Mentor: Carlos Cantelli Co-mentor: Glauber José Vaz

Company 03: 7waves do Brasil

Name of the project: Seven Waves – sistema inteligente de gestão vida com recomendação de metas

e objetivos a partir de avaliações coletivas e analytics em redes sociais

Entrepreuner: Danilo José Pereira Ferreira / E-mail: danilo@7waves.me
Principal investigator: Bruno Cezar de Oliveira / E-mail: bruno@7waves.me

Mentor:Eduardo GiacomazziCo-mentor:Rosali Curione

Company 04: Biodiversita Tecnologia Microbiana

Name of the project: Produção nacional de L-Asparaginase a partir de Streptomyces caatingaensis

CMAA1322

Entrepreuner: Fábio Sergio Paulino da Silva / E-mail: fabiopaul@gmail.com

Principal investigator: Suikinai Nobre Santos / E-mail: suikinai@gmail.com

Mentor: Ayrton Aguiar Co-mentor: Christine Nogueira

Company 05: BioSmart Nanotechnology

Name of the project: Potencial do uso da captação ultrassônica para extrair ácido hialurônico de alta

pureza de cascas de ovo e rendimento do processo

Entrepreuner: Osmir Batista de Oliveira Júnior / E-mail: dr.osmirde@gmail.com

Principal investigator: Morgana Regina Mendonça de Oliveira / E-mail: morgana rmo@hotmail.com

Mentor: Norma Garcia
Co-mentor: Verônica Peixoto

Company 06: Cura Conservas

Name of the project: Estudo de viabilidade do enlatamento do filé de pirarucu (Arapaima gigas)

em azeite de oliva

Entrepreuner: André Augusto Bortolanza / E-mail: andre.bortolanza@gmail.com

Principal investigator: Rodrigo Ribeiro / E-mail: ribeirobhc@gmail.com

Mentor: Luiz Herzog

Co-mentor: Gisele Anne Camargo

Company 07: Eclison Dutra Nepunuceno

Name of the project: Desenvolvimento de sistema colaborativo de planejamento e programação da

produção hortícola

Entrepreuner: Eclison Dutra Nepunuceno / E-mail: dutra@buritianalytics.com
Principal investigator: Aparecido Fonseca / E-mail: cido@classicasolucoes.com.br

Mentor:Wagner FerreiraCo-mentor:Lilian Cristina Anefalos

LIST OF SELECTED COMPANIES

Company 08: Empresa 5ECOS Indústria de Máquinas e Equipamentos

Name of the project: Aceleração da fase de decomposição de processo de compostagem de lodos de

esgoto agroindustriais, visando o uso dos compostos orgânicos na agricultura

Entrepreuner: Marcos Leonel Rossetto Filho / E-mail: marcos.leonel@tre-y.com
Principal investigator: Sarah Mello Leite Moretti / E-mail: sarahmello@hotmail.com

Mentor: Nelson Moreno Co-mentor: Marcelo Pilar

Company 09: Fitomap – Mapeamento Agrícola Ltda.

Name of the project: Mapas de fenótipo de produção de cafezal

Entrepreuner: Paula De Santi Louzada / E-mail: louzada.paula@gmail.com

Principal investigator: Jaime Armando Delgado Vargas / E-mail: jaimedelgadovargas@gmail.com

Mentor: Loraine Mondini
Co-mentor: Sérgio Parreiras Pereira

Company 10: Lã Data Analysis

Name of the project: Avalia Saúde: um produto Lã Data Analysis

Entrepreuner: Ana Carolina Gomes dos Santos / E-mail: la.gestao.dados@gmail.com
Principal investigator: Larissa Correa de Abreu Loriato / E-mail: la.gestao.dados@gmail.com

Mentor: Selma Jaconiszi

Co-mentor: Eliane Zambon Victorelli Dias

Company 11: LegalBot

Name of the project: Disseminação da inteligência regulatória – estudo de viabilidade para o uso da

técnica de inteligência artificial na identificação, codificação, classificação

e priorização de normativos em setores altamente regulados Alexandre Bess / E-mail: alexandre.bess@legalbot.com.br

Entrepreuner: Alexandre Bess / E-mail: alexandre.bess@legalbot.com.l Principal investigator: Taciana Maria Isoni / E-mail: isoni.taciana@gmail.com

Mentor: Margareth M. B. Fortes

Co-mentor: João Lencioni

Company 12: MicroControl Innovation Ltda.

Name of the project: Desenvolvimento de um antifúngico natural, obtido a partir de um óleo essencial,

para aumentar a conservação de alimentos in natura

Entrepreuner: Thaila Fernanda dos Reis / E-mail: thailaf@hotmail.com Principal investigator: Adriana Manfiolli / E-mail: drimanfiolli@yahoo.com.br

Mentor:João Henrique BotelhoCo-mentor:Carlos Calmanovici

Company 13: NCB Sistemas Embarcados EIRELI – EPP

Name of the project: BioBOT: Desenvolvimento de um novo equipamento para liberação autônoma de

ovos parasitados através de aeronaves remotamente pilotadas Fernando Garcia Nicodemos / E-mail: fgnicodemos@ncb.ind.br

Entrepreuner: Fernando Garcia Nicodemos / E-mail: fgnicodemos@ncb.ind.br
Principal investigator: Ronaldo Carvalho Moura Júnior / E-mail: ronaldo.moura@gmail.com

Mentor:Roberto do CoutoCo-mentor:Gabriel Ragassi

Company 14: PPI-Multitask Sistemas e Automação Ltda.

Name of the project: Desenvolvimento de sistema MES (Manufacturing Execution System) para apoiar as

indústrias no atendimento das novas demandas da Indústria 4.0

Entrepreuner: Marcelo Francisco Pinto / E-mail: marcelo@ppi-multitask.com.br

Principal investigator: Nortom Antonio Rodrigues / E-mail: nortom@ppi-multitask.com.br

Mentor: Stefan Salej Co-mentor: Israel Guratti

LIST OF SELECTED COMPANIES

Company 15: Prevet Laboratório de Diagnóstico, Desenvolvimento e Sanidade Aquícola Ltda.

Name of the project: Desenvolvimento de uma vacina atenuada para controle e prevenção da infecção

por Francisella noatunensis subespécie orientalis em pisciculturas

Entrepreuner: Miguel Frederico Fernandez Alarcon / E-mail: miguelffa@hotmail.com

Principal investigator: André Marcos Santana / E-mail: andrevetms@gmail.com

Mentor: César Pomin
Co-mentor: Márcio Koiti Chiba

Company 16: Radiotarget

Name of the project: Validação do uso de um aptâmero de DNA específico para HER2 como

radiofármaco para imagem de tumores

Entrepreuner: Emerson Soares Bernardes / E-mail: emerson.bernardes@gmail.com
Principal investigator: Sofia Nascimento dos Santos / E-mail: snsantos85@gmail.com

Mentor: Marcelo Colonno Co-mentor: Marina Caldeira

Company 17: R-Crio Criogenia S/A

Name of the project: Desenvolvimento de membranas compósitas para Regeneração Óssea Guiada (ROG)

Entrepreuner: Daniel Navarro da Rocha / E-mail: dnr.navarro@gmail.com

Principal investigator: Rubens Lincoln Santana Blazutti Marçal / E-mail: rubenslsbm@gmail.com

Mentor: Jorge Marinho

Co-mentor: Cristiano de Jesus Correia

Company 18: REACHR

Name of the project: Um sistema de recomendação personalizada para e-Recruitment Entrepreuner: Marcelo de Oliveira Braga / E-mail: marcelo.braga@reachr.com.br

Principal investigator: André Sonnenburg / E-mail: asonnenb@gmail.com

Mentor: José Eduardo Martins

Co-mentor: Mirela Goi

Company 19: SelenoLife Pesquisa em Selênio P/Vida Ltda.

Name of the project: Design e síntese de compostos orgânicos de selênio destinados a produção de

alimentos biofortificados

Entrepreuner: Marcos Vinicio Lopes Rodrigues Archilha / E-mail: archilha2@gmail.com

Principal investigator: Gizele Celante / E-mail: selenolife@cietec.org.br

Mentor: Odair Gomes Salles
Co-mentor: Dalton Pessoa

Company 20: Solve Biotechnology Ltda - ME

Name of the project: Desenvolvimento de teste rápido de baixo custo e não invasivo para diagnóstico

de câncer de bexiga

Entrepreuner: Beatriz Nogueira Messias de Miranda / E-mail: biamiranda26@gmail.com

Principal investigator: Juliane Cristina Borba / E-mail: july0502@gmail.com

Mentor:Luiz Carlos Heiti TomitaCo-mentor:Gabriela Ribeiro dos Santos

Company 21: Toledo & Souza Engenharia Ltda. EPP

Name of the project: Monitor permanente de redes PROFIBUS DP com recursos para Indústria 4.0 Entrepreuner: Luiz Roberto Toledo de Oliveira e Souza / E-mail: luiz@toledoesouza.com

Principal investigator: Guilherme Serpa Sestito / E-mail: guilherme@toledoesouza.com

Mentor: Fábio Zoppi Barrionuevo Co-mentor: José Augusto Pereira

20



FUNDAÇÃO DE AMPARO À PESQUISA DO ESTADO DE SÃO PAULO

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