

PROGRAM GRID



Monday - September 2

SHORT COURSE

Venue: Centro de Exatas da Faculdade de Filosofia Ciências e Letras de Ribeirão Preto, Bloco 4. Universidade de São Paulo-Campus Ribeirão Preto. ([MAPs](#))

Time: 08:00 -18:00

Time	Room 11	Room 13	Room 14	Room 15
8:00	Inteligência Artificial em Saúde Diedre Santos do Carmo (UNICAMP) Letícia Rittner (UNICAMP)	Engenharia Clínica: O Engenheiro Biomédico na Gestão Hospitalar Antonio Gibertoni Jr (Hospital Albert Einstein) Zeev Katz (ABEClín)	Infraestrutura da Qualidade para Engenharia Biomédica Rodrigo Costa-Felix (Inmetro)	Técnicas avançadas de processamento digital de imagens e suas aplicações na medicina Marcelo Andrade da Costa Vieira (EESC/USP)
12:30	Lunch Time			
1:30	Empreendedorismo e Inovação em Saúde Alex Bertoldi (Supera Parque) Eduardo Gomide (SEBRAE SP)	Separação Cegas de Fontes no contorno de Sinais Biológicos Leonardo Abdala Elias (DEB/UNICAMP) Carina Marconi Germer (DEB/UNICAMP)	Bioimpressão 3D Janaina Dernowsek Quantis and BioEdTech	Robótica em Engenharia Biomédica Carlo Rondinoni (Tagmavisions) Maria da Conceição P Fonseca (UFPA) Thatiana Ferreira (MINIPA) Victor Malheiro (GIIMUS/USP)

REGISTRATION

Venue: Centro de Eventos da Faculdade de Direito, Universidade de São Paulo – Campus Ribeirão Preto ([MAPs](#))

Time: 7:00 - 18:00

OPENING CEREMONY

Venue: Theatro Pedro II, Praça XV, Ribeirão Preto ([MAPs](#))

Time: 19:00 – 22:00

Open Lecture: O Futuro das Tecnologias em Saúde nas Cidades Inteligentes

Speaker: [Gil Giardelli](#)

PROGRAM GRID

Tuesday - September 3

Time	Auditorium	Room Carlos R S Vieira (C21)	Room Cândido P Melo (C22)	Room Antonio F Infantsi (C23)	Room SérgioS Mühlen (C24)	Hall	
08:00	Innovation in Assistive Technology (part 1)	Oral session Biomedical Informatics	Invited lecture Enhancing Scientific Writing and Publishing	Oral session Nanotechnology and Nanodevices Applied to Health	Oral session Health Technology Assessment	Exposition /Posters e Registration Desk	
08:30	Biochallenge Brazil		Oral session Clinical Diagnostic and Therapy Systems				
09:00	Digital Health: Public Policy, Structure and Opportunities	Oral session Biomedical Informatics	Oral session Clinical Diagnostic and Therapy Systems	Oral session Clinical Engineering and Hospital Engineering	Oral session Health Technology Assessment		
09:30							
10:00	Coffee break						
10:30	Plenary Exploring The Ultrasound Of The Future – Diagnostics, Therapeutics And Theranostics In Cardiovascular, Cancer And Neurological Disease <i>Elisa Konofagou (USA)</i>	Technical Visits and Professional Networking Supera Parque de Inovação e Tecnologia Laboratórios de Inovação em Instrumentação Médica e Ultrassom Centro de Nanotecnologia e Engenharia Tecidual (CNET) Laboratório de Biomagnetismo Laboratório de FotoBiofísica Laboratório SensorMat			Showcasing Brazilian Medical Innovations: Pitches and Breakthroughs		
11:00							
11:30	Poster session						
12:30	Mindray Special session with lunch Box	Lunch time					
14:00	Clinical Engineering and Hospital Management	Oral session Biomedical Signal and Image Processing	Oral session Clinical Diagnostic and Therapy Systems	Oral session Biomedical Robotics and Biomechanics	Oral session Biosensors, Transducers and Biomedical Instrumentation		
14:30							
15:00	Health Innovation Ecosystem in Brazil	Oral session Biomedical Signal and Image Processing	Oral session Clinical Diagnostic and Therapy Systems	Oral session Biomedical Robotics and Biomechanics	Oral session Biosensors, Transducers and Biomedical Instrumentation		
15:30							
16:00	Coffee break						
16:30	The Impact of AI on Healthcare Reengineering			Invited Lectures Ultrasound Innovation in Diagnostic and Therapy	Invited Lectures Advanced Biomedical Instrumentation		
17:00							
17:30	Poster session						

PROGRAM GRID

Wednesday - September 4

Time	Auditorium	Room Carlos R S Vieira (C21)	Room Cândido P Melo (C22)	Room Antonio F Infantosi (C23)	Room Sérgio S Mühlen (C24)	Hall	
08:00	Health Technology Assessment (HTA)	Oral session Biomedical Signal and Image Processing	Oral session Biomaterials, Tissue Engineering and Artificial Organs	Oral session Assistive Technologies and Rehabilitation	Oral session Biosensors, Transducers, and Biomedical Instrumentation	Exposition /Posters e Registration Desk	
08:30		Oral session Biomedical Signal and Image Processing)	Oral session Biomaterials, Tissue Engineering and Artificial Organs	Oral session Assistive Technologies and Rehabilitation	Oral session Biosensors, Transducers, and Biomedical Instrumentation		
09:00		Coffee break					
09:30		Technical Visits and Networking					
10:00	Technical Visits and Networking						
10:30	Plenary Microscale living materials for bottom-up engineering of perfusable microvascular 3D networks Cristina Barrias (PT)	Supera Parque de Inovação e Tecnologia Laboratórios de Inovação em Instrumentação Médica e Ultrassom Centro de Nanotecnologia e Engenharia Tecidual (CNET) Laboratório de Biomagnetismo Laboratório de FotoBiofísica Laboratório SensorMat			Innovation and Health Ecosystem in Ribeirão Preto: A Model of Connection Between Academia, Industry, and Government		
11:00		Poster session					
11:30	IFMBE Special Session for Students with Lunch Box						
12:30	Lunch time						
14:00	CAPES Assessment: Challenges and Perspectives for Postgraduate Programs in Health Technology	Oral session Biomedical Signal and Image Processing	Oral session Bioengineering	Oral session Assistive Technologies and Rehabilitation	Oral session Biosensors, Transducers, and Biomedical Instrumentation		Exposition /Posters e Registration Desk
14:30		Oral session Biomedical Signal and Image Processing)	Oral session Bioengineering	Oral session Assistive Technologies and Rehabilitation	Oral session Biosensors, Transducers, and Biomedical Instrumentation		
15:00	Biomedical Engineering - Roles & Career Opportunities in the Medical Devices Industry	Nanotechnology Applied to Health (part 1)	Oral session Bioengineering	Oral session Assistive Technologies and Rehabilitation	Oral session Biosensors, Transducers, and Biomedical Instrumentation		
15:30	Pulsed Field Ablation Technology – The new kid on the block in AF therapy		Oral session Bioengineering	Oral session Assistive Technologies and Rehabilitation	Oral session Biosensors, Transducers, and Biomedical Instrumentation		
16:00	Coffee break						
16:30	EMBRAPII Units in Medical Instrumentation: Accelerating Technological Development in Healthcare in Brazil	Nanotechnology Applied to Health (part 2)	Innovation in Assistive Technology (part 2)	Certification of Electromedical Equipment	Women Scientists in Biomedical Engineering		
17:00			Poster session	Poster session	Poster session	Poster session	
17:30	Congress Dinner						
19:00	Congress Dinner						

PROGRAM GRID

Thursday - September 5

Time	Auditorium	Room Carlos R S Vieira (C21)	Room Cândido P Melo (C22)	Room Antonio F Infantosi (C23)	Room Sérgio S Mühlen (C24)	Hall	
08:00						Exposition /Posters e Registration Desk	
09:00	The Role of IFMBE in Hospital Health Technology Assessment	Oral session Biomedical Signal and Image Processing	Oral session Biomaterials, Tissue Engineering, and Artificial Organs	Invited Lecture The digital twins of your heart	Invited Lecture Safety and efficacy using transcranial focused ultrasound		
09:30	Innovation in Biomedical Engineering: Pathways to Entrepreneurship			Oral session Computational Modeling and Simulation	Oral session Neuroengineering		
10:00	Coffee break						
10:30	Plenary Recent advances in nanomedicine: sensors, implants, artificial intelligence, saving the environment, human studies, and more! <i>Thomas J. Webster (USA)</i>	Technical Visits and Networking Supera Parque de Inovação e Tecnologia Laboratórios de Inovação em Instrumentação Médica e Ultrassom Centro de Nanotecnologia e Engenharia Tecidual (CNET) Laboratório de Biomagnetismo Laboratório de FotoBiofísica Laboratório SensorMat			Senai e Sebrae como facilitadores de startups e promotores de transferência de tecnologia em saúde		
11:00							
11:30	Poster session						
12:30	SBEB Special session with lunch Box	Lunch time					
14:00	Models of Open Innovation in health	Oral session Biomedical Signal and Image Processing	Biofabrication & Organs on a Chip	Oral session Computational Modeling and Simulation	Invited Lecture Neural Adaptation Dynamics in Object Recognition		
14:30	Strategies for promoting research to strengthen the health industry				Oral session Biomedical Signal and Image Processing		Oral session Computational Modeling and Simulation
15:00		Oral session Neuroengineering					
15:30							
16:00	Coffee break						
16:30	Implementation of Unique Device Identification (UDI) system and Software as Medical Device (SaMD) Regulation	The "Marco Legal" of Innovation / O Marco Legal da Inovação	The Entrepreneurial Scientist: Challenges and Opportunities	The Challenges of Biomedical Engineering in Brazil: A View from the Regulators			
17:00		Venture Capital to transform science into worldwide competitive startups					
17:30	Poster session						
18:30	AGO						

PROGRAM GRID



Friday - September 6

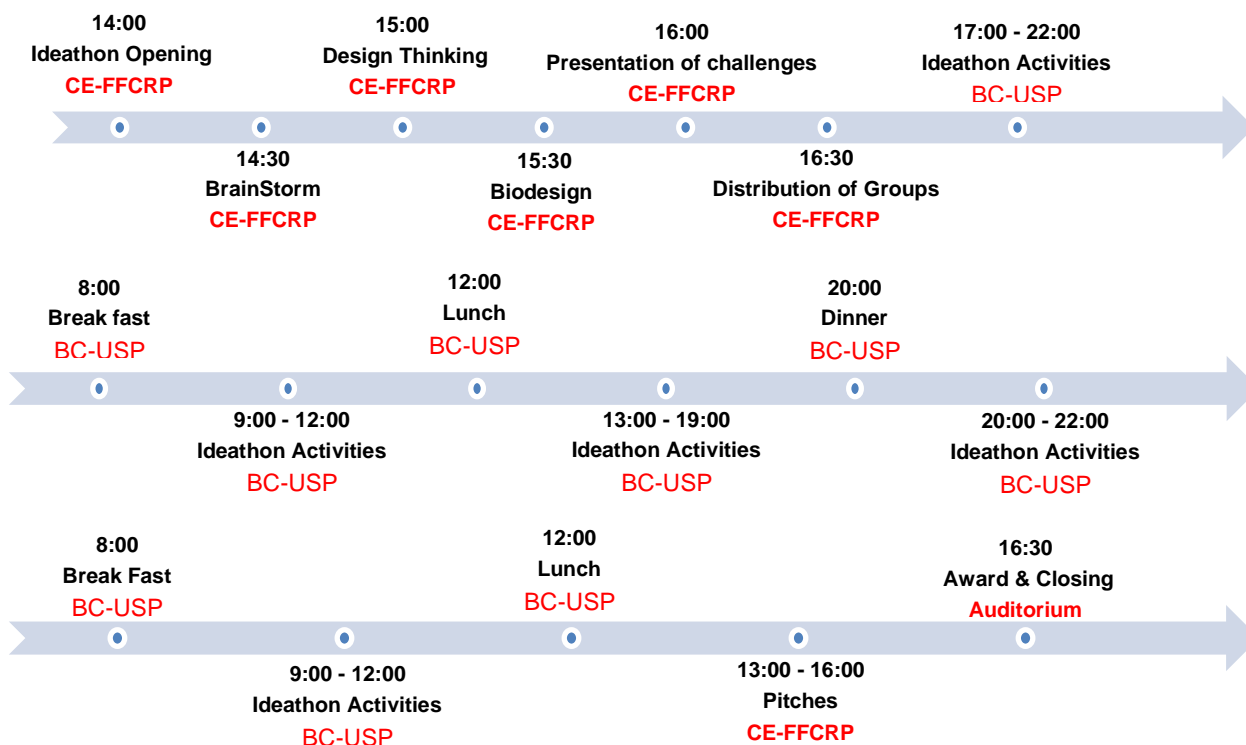
Time	Auditorium	Room Carlos R S Vieira (C21)	Room Cândido P Melo (C22)	Room Antonio F Infantsi (C23)	Room Sérgio S Mühlen (C24)	Hall	
08:00	Biomedical Engineering Education	Oral session Biomedical Signal and Image Processing	Oral session Special Topics	Oral session Computational Modeling and Simulation	Oral session Metrology, Testing and Certification in Biomedical Engineering	Exposition /Posters e Registration Desk	
08:30		Oral Session Biomedical Signal and Image Processing	Oral session Special Topics	Oral session Computational Modeling and Simulation	Oral session Metrology, Testing and Certification in Biomedical Engineering		
09:00							
09:30		Coffee break					
10:00	Plenary Perspective and Prospective of Biomedical Engineers and Healthcare Innovation Newton Faria (USA)	Technical Visits and Networking Supera Parque de Inovação e Tecnologia Laboratórios de Inovação em Instrumentação Médica e Ultrassom Centro de Nanotecnologia e Engenharia Tecidual (CNET) Laboratório de Biomagnetismo Laboratório de FotoBiofísica Laboratório SensorMat			Ways to strengthen links between academia and the health industry		
11:00		Poster session					
11:30	Circus of Physics special session with Lunch Box	Lunch time					
12:30	Recent advances in Neuroengineering	Special awards session	Special awards session	Special awards session			
14:00		Antonio Fernando Catelli Infantsi - Awards	Awards Cândido Pinto de Melo - Awards	Awards Sérgio Santos Mühlen - Awards			
14:30		Coffee break					
15:00		Awards session					
15:30	Closing Ceremony						

	Workshop Session
	Plenary Session
	Panel Session
	Oral Session
	Technical Visits and Networking
	Invited Lecture

IDEATHON

Wednesday – September, 4 - 6

Venue: Centro de Exatas da Faculdade de Filosofia Ciências e Letras de Ribeirão Preto-USP (CE-FFCLRP), Bloco, Room 11; Biblioteca Central da USP (BC-USP); **Auditorium** of Faculdade de Direito.



Wednesday – September, 4

Venue: Centro de Exatas da Faculdade de Filosofia Ciências e Letras de Ribeirão Preto, Bloco 4. Universidade de São Paulo-Campus Ribeirão Preto

14:00 - Open session

[Antonio Adilton Carneiro](#) (President of SBEB and General Chair of CBEB)
[Daniel Takaki](#) (InovActor)

14:30 - BrainStorm de Inovação em Saúde

Speaker: [Milton Pedro Campos de Barros](#) (Supera Parque) e [Anna Lissa Campos Machado](#) (Supera Parque)

15:00 - Design Thinking: da ideia à Evolução

Speaker: [Eduardo Gomide](#) (Sebrae)

16:00 - Demandas de Inovação em Saúde

Speaker: [Edwin Tamashiro](#) (NIT-HC)

16:30 - Biodesign: Experiência internacional

Speaker: [Newton Faria](#) (Cornell)

Wednesday - September 4

SPECIAL SESSIONS

Auditorium of Faculdade de Direito

Mindray special session with lunch Box

Wednesday – September, 3

12:30 - Tecnologias Médicas no auxílio da Transformação Digital

Speaker: Alberto Aprigio (gerente de produto),

IFMBE Education in Biomedical Engineering for Students (Lunch session for students)

Wednesday – September, 4

This Special session will be organized by IFMBE Education & Accreditation Committee (E&A), IFMBE and Students & Recent Graduates Working Group (S&RG-WG) and the organizers of CBEB-2024.

12:30 - Open session

[Antonio Adilton Carneiro](#) (President of SBEB and General Chair of CBEB)

[Ratko Magjarevic](#) (President of IFMBE)

12:40 - Global trends in learning and skills development are needed for future BME professionals facing the challenges of IA for global job opportunities

Chair: [Ratko Magjarevic](#) (President of IFMBE)

Speaker: [Martha Zequera](#) (Prof. of Pontificia Javeriana, Bogotá Colombia)

13:00 - Exploring Biomedical Engineering Careers: Perspectives from Academia, Industry, and Health Services

Moderator: [Martha Zequera](#) (Prof. of Pontificia Javeriana, Bogotá Colombia)

Panelist: [Mariana Brandão](#) (UFSC)

[Marcelo de Lucena Lima](#) (SESAF-RN)

[Bruno Lourenço](#) (Siemens)

SBEB special session with lunch Box

Thursday – September, 5

13:00 – SBEB Action: Challenges and Opportunities

Moderador: Renato Amaro Zângaro (UAM)

Panelist: [Diretoria SBEB](#)

PhyScis Circus special session with lunch Box

Friday – September, 6

12:30 – Participação especial Circo da Física

Atores: Lanna Soares

Marcelly Alves Ramos

Rebeca Rezende

Victor Hugo Fernandes Capelossi

Wednesday - September 4

Social Program

Time	Monday - September 2	Wednesday - September 2	Friday - September 2
19:00	Opening Ceremony* Theatro Pedro II	Congress Dinner (Free)* Churrascaria Nativas	Congress closing party (R\$ 50,00)* Chacara Espaço Café <i>(Purchase at the event office)</i>
<i>*Necessita Confirmar Presença AQUI / Need to Confirm Attendance HERE</i>			

Awards

SBEB Best Paper Awards (R\$ 6.000,00 + Certificates)

Antonio Fernando Catelli Infantsi Award

1st place	2nd place	3rd place
R\$ 1.000,00 + Certificado	R\$ 600,00 + Certificado	R\$ 400,00 + Certificado

Cândido Pinto de Melo Award

1st place	2nd place	3rd place
R\$ 1.000,00 + Certificado	R\$ 600,00 + Certificado	R\$ 400,00 + Certificado

Sérgio Santos Mühlen Award

1st place	2nd place	3rd place
R\$ 1.000,00 + Certificado	R\$ 600,00 + Certificado	R\$ 400,00 + Certificado

Biochallenge Brazil – Assistive Technologies (R\$ 6,000.00 + Certificates)

Modalidade Visual	Modalidade Auditiva	Modalidade Motora
R\$ 2.000,00 + Certificado	R\$ 2.000,00 + Certificado	R\$ 2.000,00 + Certificado

Ideathon – Innovation Marathon (R\$ 6,000.00 + Certificates)

1st place	2nd place	3rd place
R\$ 3.000,00 + Certificado	R\$ 2.000,00 + Certificado	R\$ 1.000,00 + Certificado

Award SBEB - Boston Scientific, “Inovação Engenharia Biomédica para o SUS”

- 01 (one) All-expenses-paid trip to visit the Boston Scientific factory in Belo Horizonte (MG).
- 01 (one) Trophy with the name of the main author and all the co-authors of the work; and
- Certificates of recognition for the main author and all the co-authors of the work.

Honorable mention for the best oral and poster presentation in the thematic areas of CBEB2024