

CAPES PRINT: opportunities for Ohio University and UFPB

Professor Marcia Fonseca
Associate Professor, Dept. Economics
Coordinator of Graduate Programs
Graduate Office
Federal University of Paraíba





FEDERAL UNIVERSITY OF PARAIBA UFPB GRADUATE OFFICE



About UFPB:

The Federal University of Paraíba (UFPB) is a Brazilian federal public higher education institution, located in the state of Paraíba, Brazil. Its main campus is in João Pessoa.

UFPB has three other campuses in Areia, Bananeiras and the North Coast (Rio Tinto and Mamanguape).

It was founded in 1947 and Economics was the first faculty.

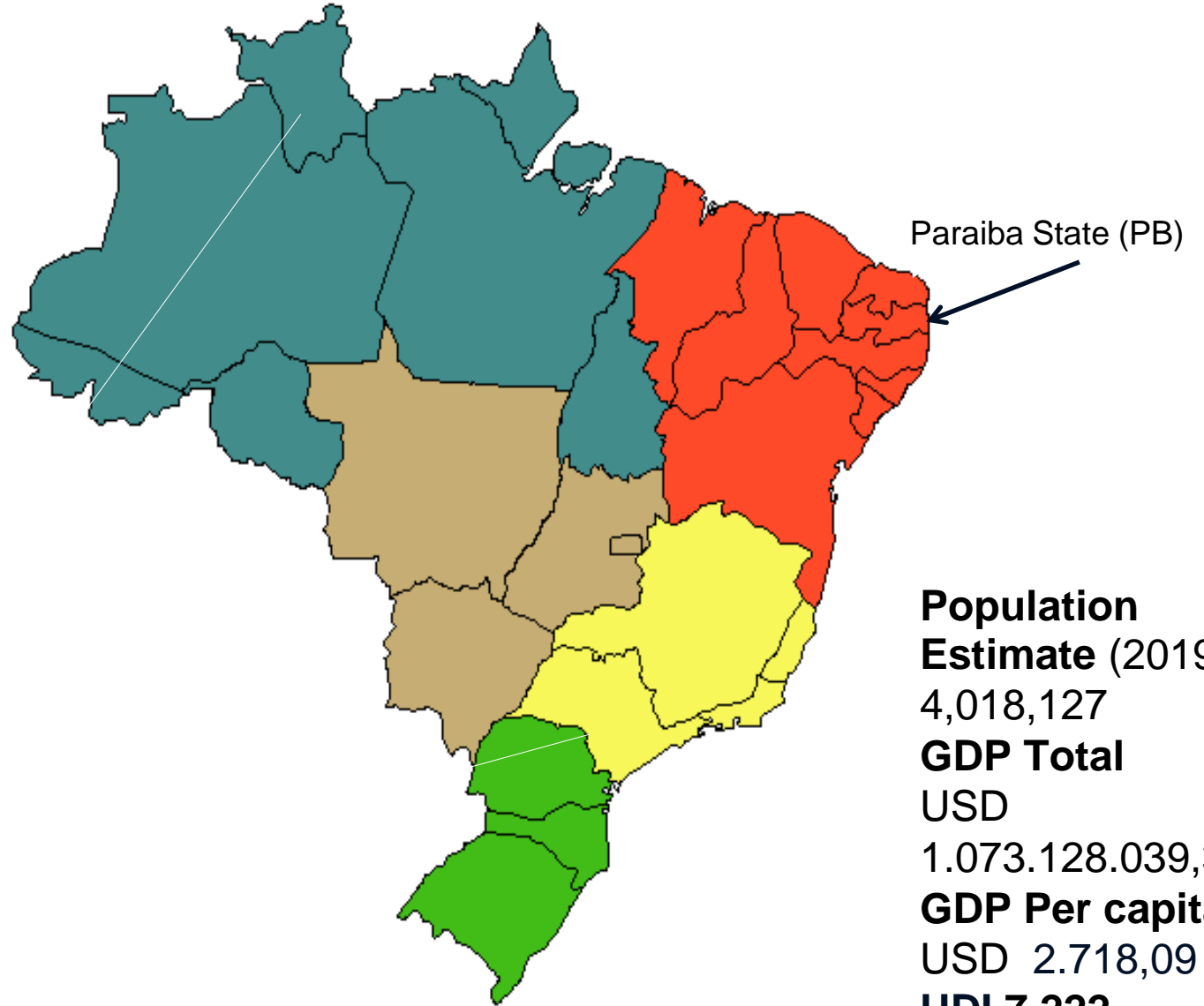
UFPB has 16 centers and 114 departments, 113 graduate courses and 128 undergraduate courses.

Over 39,000 students are enrolled.

Over 2.800 professors and 3.350 technical servers are working at UFPB.



Geographic location



Paraiba State (PB)

Population Estimate (2019)
4,018,127
GDP Total
USD 1.073.128.039,37
GDP Per capita
USD 2.718,09
HDI 7.222

The UFPB is the largest higher educational institution in the state of Paraíba.

It is among the 100 best universities in Latin America according to the *QS World University Ranking* and *Times Higher Education*.

27th university in the country.
4th in north east region.





*Social
Sciences
Center*



*Technology
Center*



*Legal
studies
Center*



*University
Hospital*



*Digital
Media
Department*



GRADUATE PROGRAMS

Graduate Programs	Number	Enrolled Students
Stricto Sensu Programs		
Graduate Programs	81	5.078
Graduate Courses	113	
Foreign Students Enrolled		136
Masters Courses	61	2.435
Professional Masters Courses	13	362
Total of Masters Courses	74	2.805
Ph.D. Courses	40	2.466
Lato Sensu		
MBA and Residency		685

07/12/2017

Call open: International CAPES PrInt Programme (Outgoing and domestic)



Categories: News

Tags: Brazil | Mobility programme | Outgoing | international collaboration

The Coordination of Improvement of Higher Education Personnel (CAPES) has launched the CAPES / PrInt programme, which will provide R\$ 300 million annually to support institutional projects for internationalisation.

In total, up to 40 projects will be selected. Proposals must be submitted by institutions, in English and Portuguese.

To participate in the selection, institutions must have at least four postgraduate programmes recommended by CAPES in the last two assessments and at least two PhD courses. Projects must last up to 4 years starting in August 2018.

Benefits

The selected projects will receive resources for **work missions abroad, scholarships in Brazil and abroad** and include other funding actions duly approved by CAPES. The final result should be published in July 2018.

[More details here](#)

Deadline : 18 April 2018

Source : "CCS/CAPES"

CAPES/PRINT

CAPES/PRINT PROGRAM:

36 granted Universities

Funding:

Sandwich PhD Scholarships

Visiting Scholar Fellowships

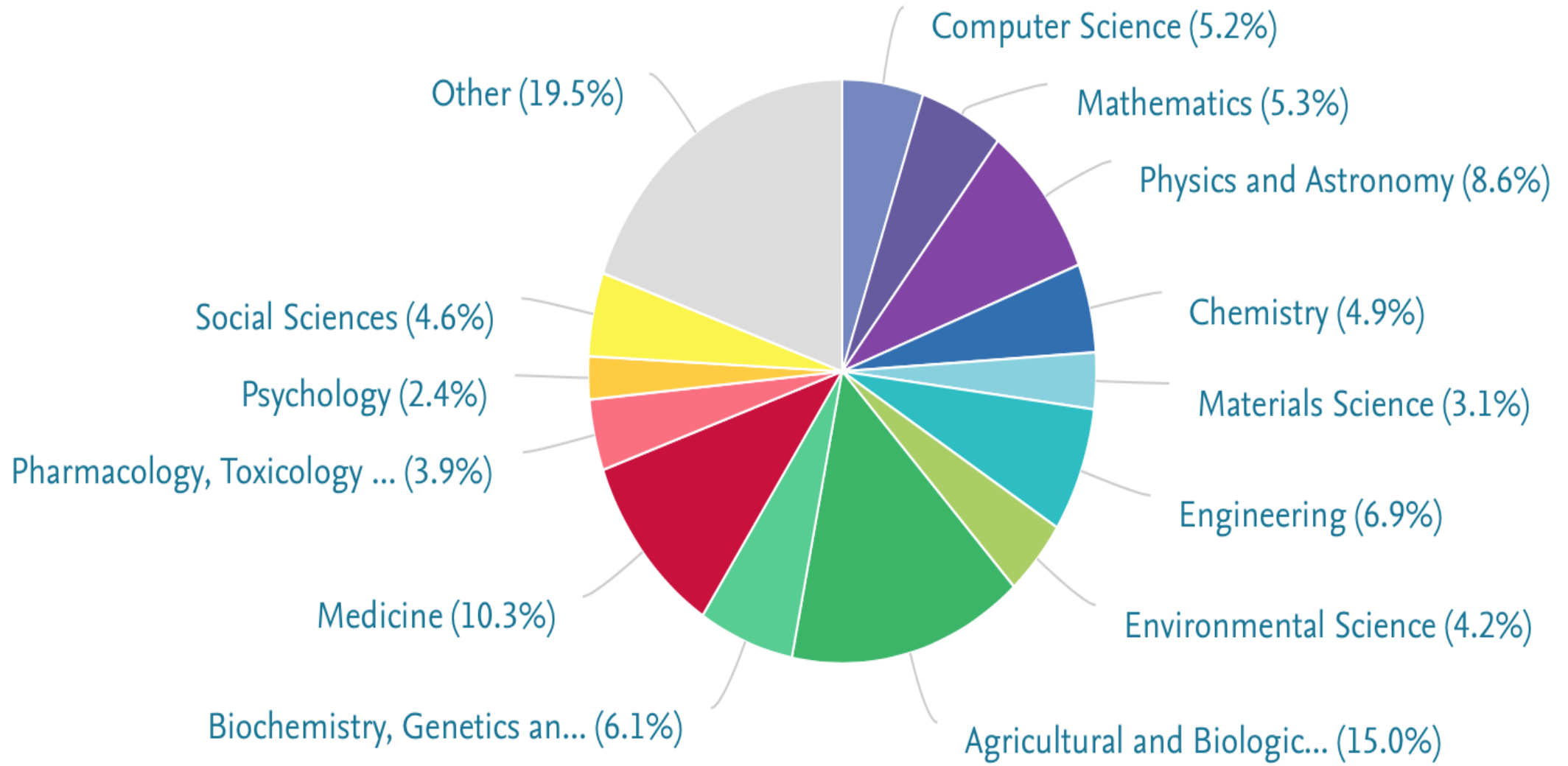
Short-term missions

Maintenance Resources

**Visiting Professors Program:
inbound junior and sênior
reseachers.**

<http://www.print.ufpb.br/PrInt>

Research Areas UFPB (2019)



UFPB CAPES/PRINT PROGRAM:

**HEALTH INTERVENTIONS,
TECHNOLOGIES, PRODUCTS, AND
PROCESSES**

**TERRITORIES OF DIVERSITY:
EDUCATION, LANGUAGES, MEDIATION,
CULTURAL AND PUBLIC POLICIES**

**CAATINGA BIOME, BIODIVERSITY
AND SUSTAINABILITY**

UFPB Budget:

Theme 1: 902.504,30 USD

Theme 2: 473.061,26 USD

Theme 3: 559.367,60 USD

Total: 1.934.933,16 USD

11 projects

05 years 2019-2023

UFPB CAPES/PRINT - GRADUATE PROGRAMS

HEALTH INTERVENTIONS, TECHNOLOGIES, PRODUCTS, AND PROCESSES	TERRITORIES OF DIVERSITY: EDUCATION, LANGUAGES, MEDIATION, CULTURAL AND PUBLIC POLICIES	CAATINGA BIOME, BIODIVERSITY AND SUSTAINABILITY
Pharmacology	Linguistics	Agronomy
Chemistry, Nutrition Science, Nursing,	Sociology, Social Psychology , Economics	Zootechnics, Geography, Development and Environment
Biotechnology, Linguistics	Education	Animal Science, Chemistry,
Development and Technological Innovation in Medicines, Neuroscience,	Music, Informatics	Food Science and Technology
Dentistry, Gerontology,	Religion Science , Legal Science	Architecture and Urbanism, Antropology
Physical Education	Human Rights, Accounting, Administration	Biological Science
Physiological Sciences	Literature, Information Science	Civil and Environmental Engineering
Health decision models	Architecture and Urbanism	
(12 Programs)	(14 Programs)	(10 Programs)

AREAS OF THE DEVELOPED PROJECTS

HEALTH INTERVENTIONS, TECHNOLOGIES, PRODUCTS, AND PROCESSES	TERRITORIES OF DIVERSITY: EDUCATION, LANGUAGES, MEDIATION, CULTURAL AND PUBLIC POLICIES	CAATINGA BIOME, BIODIVERSITY AND SUSTAINABILITY
Biological, psychological, social and environmental factors and processes related to population health	Conceptions of spaces, territories and networks in contexts marked by diversity	Taxonomic and ecological aspects and evaluation of the anthropogenic actions in the Caatinga biodiversity
Pharmacological and non-pharmacological interventions for chronic diseases and human development.	Social, educational, cultural, linguistic, and political mediation in contexts marked by diversity.	Impacts of the climatic changes on the management of the vegetal cover and on the (socio)biodiversity in the Caatinga Biome in Northeast Brazil
Prospection, improvement, and design of technologic products and processes of Health interest.	Areas of diversity: systems of learning, reflexive practices and network dissemination of information.	“Omic” Sciences applied to the prevention of antimicrobial resistance at the human-animal-environment interface and the promotion of health and food safety in the Caatinga Biome: a One Health Approach.
		Innovation in materials, products and processes associated with environmental conservation and sustainability
		Sustainability and quality of urban centers and territorial and socio-environmental management.

HOW DO THE CALLS PROCEED?

- 1) **Simplified selection process for visiting professors;**
- 2) **Sandwich PhD Scholarships** - directed exclusively to UFPB Graduate Programs selected for Capes-Print-UFPB
- 3) **Partnerships** that involve resource transfers, fees and reduction of academic fees, administrative or bench fees, must be formalized between UFPB and the foreign proposing institution ;
- 4) **Visiting Scholar Fellowships and Short-term missions – need to be approved by UFPB CAPES-PRINT Committee Board;**
- 5) **PhD thesis according to the International Cotutela Regime with Double Degree**

ACTIVITIES OF THE PRINT PROJECT (2019)

- 24 Professors in Short-term missions
- 22 Professors in post-doctoral programs
- 21 Sandwich PhD Scholarships
- 200 participations (professors or students) in seminars and lectures in international institutions;
 - 57 courses in international institutions and scientific events.
- 30 cooperation agreements were assigned.
- 66 visiting professor
- 12 PhD students in Cotutela regime (Double Degree)

Students in Co-Tutorship of Theses in the World at UFPB 2019:

12 STUDENTS:

5 ITALY

UNIVERSITÀ DEGLI STUDI DI FIRENZE;

4 FRANCE

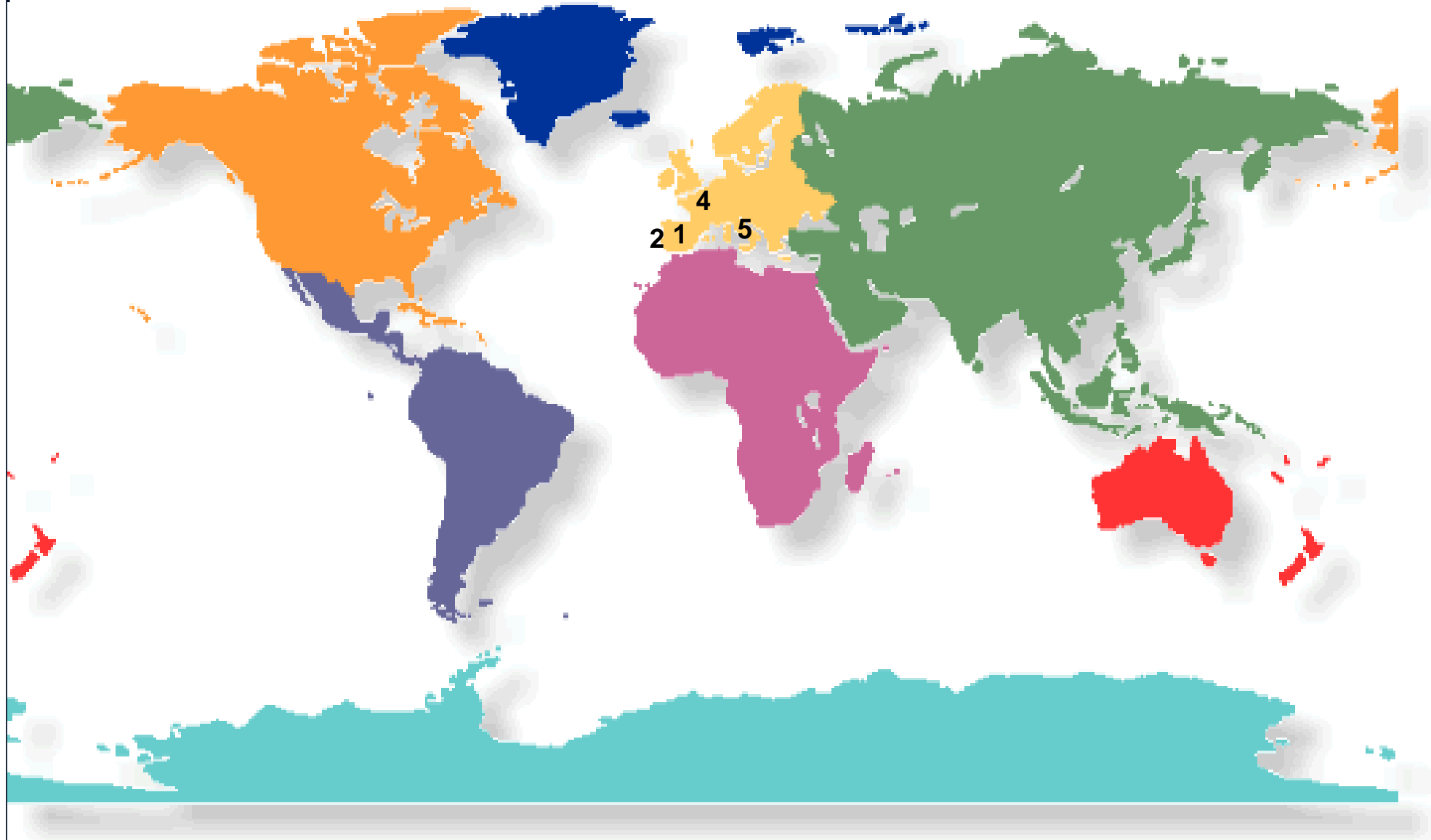
LA ROCHELLE UNIVERSITÉ, INSA, UNIVERSITÉ GRENOBLE ALPES, AND LITTORAL CÔTE UNIVERSITY D'OPALE;

2 PORTUGAL

UNIVERSITY OF COIMBRA AND UNIVERSITY OF MINHO;

1 SPAIN

UNIVERSITY OF MALAGA.



24 RESEARCH MISSIONS:

5 PORTUGAL

UNIVERSITY OF COIMBRA, UNIVERSITY OF MINHO, UNIVERSITY OF LISBON, INSTITUTO POLITÉCNICO DE BRAGANÇA PORTUGAL;

4 USA

HARVARD UNIVERSITY, OHIO STATE UNIVERSITY, RUTGERS UNIVERSITY, UNIVERSITY OF GEORGIA;

3 SPAIN

UNIVERSITY OF VALENCIA, UNIVERSITY OF THE BALEARIC ISLANDS;

3 MEXICO

UNIVERSIDAD AUTÓNOMA DE AGUASCALIENTES; UNIVERSIDAD SAN CRISTÓBAL; NATIONAL UNIVERSITY AUTONOMOUS MEXICO;

3 FRANCE

UNIVERSITY NICE SOPHIAANTIPOLIS, UNIVERSITY NICE SOPHIAANTIPOLIS, ÉCOLE DE HAUTES ÉTUDES EM SCIENCES SOCIALES;

2 UNITED KINGDOM

UNIVERSITY OF READING, UNIVERSITY OF EXETER;

1 ITALY

UNIVERSITY OF BOLOGNA;

1 CANADA

UNIVERSITY OF ALBERTA;

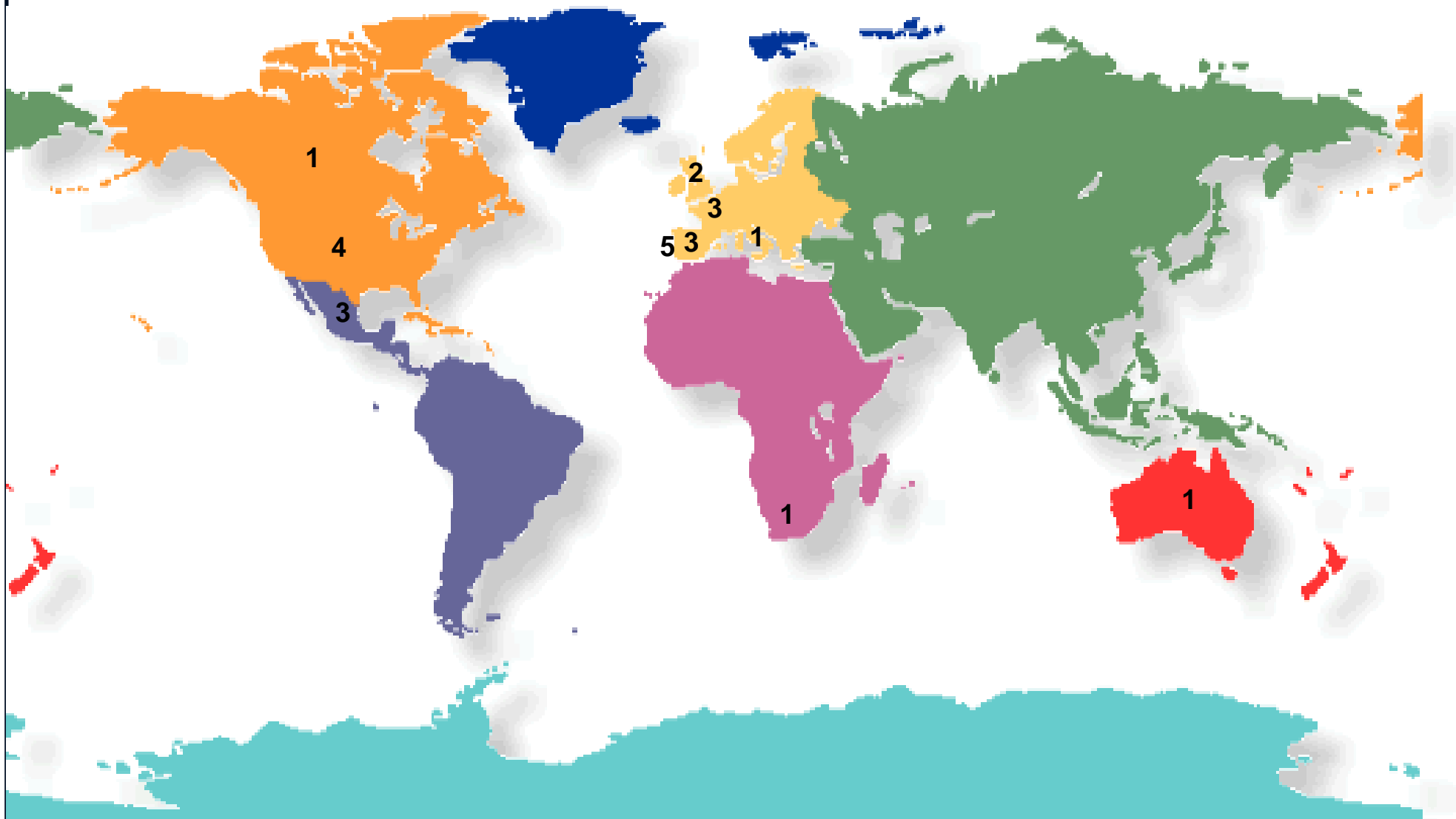
1 AUSTRALIA

UNIVERSITY OF NEWCASTLE;

1 SOUTH AFRICA

UNIVERSITY OF SOUTH AFRICA, PRETORIA.

International Missions of Research Professors at UFPB 2019:





Thank you

mbfmarcia@prpg.ufpb.br

<http://www.print.ufpb.br/Print>



OHIO STATE UNIVER



UNIVERSIDADE FEDERAL DA PARAÍBA



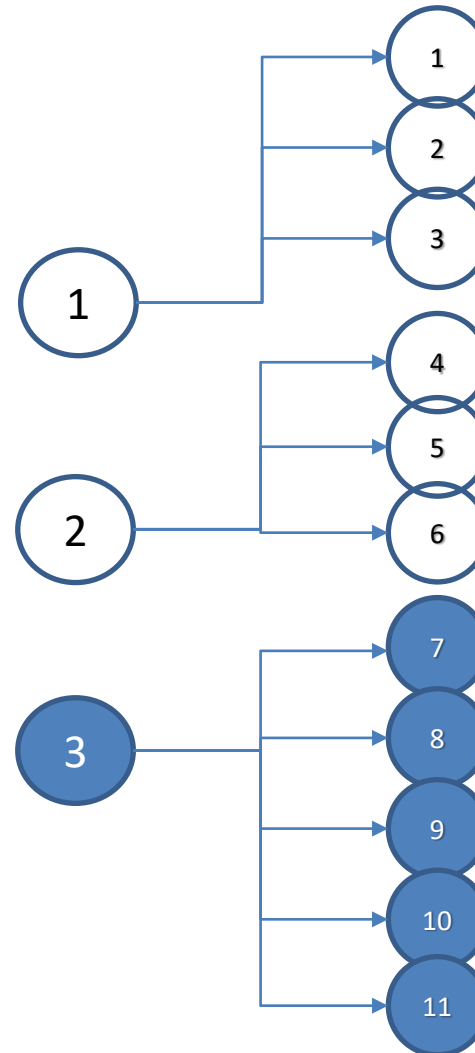
Tema 3. Bioma Caatinga, Biodiversidade e Sustentabilidade
Theme 3: Caatinga Biome, Biodiversity and Sustainability

CAPES – PRINT JULY, 14th 2020



Participating Postgraduate Programs

- PPG - Chemistry (5)
- PPG - Development and Environmental (5)
- PPG - Geography (4)
- PPG - Zootecny (5)
- PPG - Agronomy (5)
- PPG - Anthropology (4)
- PPG - Animal Science (4)
- PPG - Biological Science (5)
- PPG - Civil and environmental engineering (4)
- PPG - Architecture and Urbanism (4)
- PPG - Food Science and Technology (4)



Australia

Belgium

Canada

France

Italy

Japan

Mexico

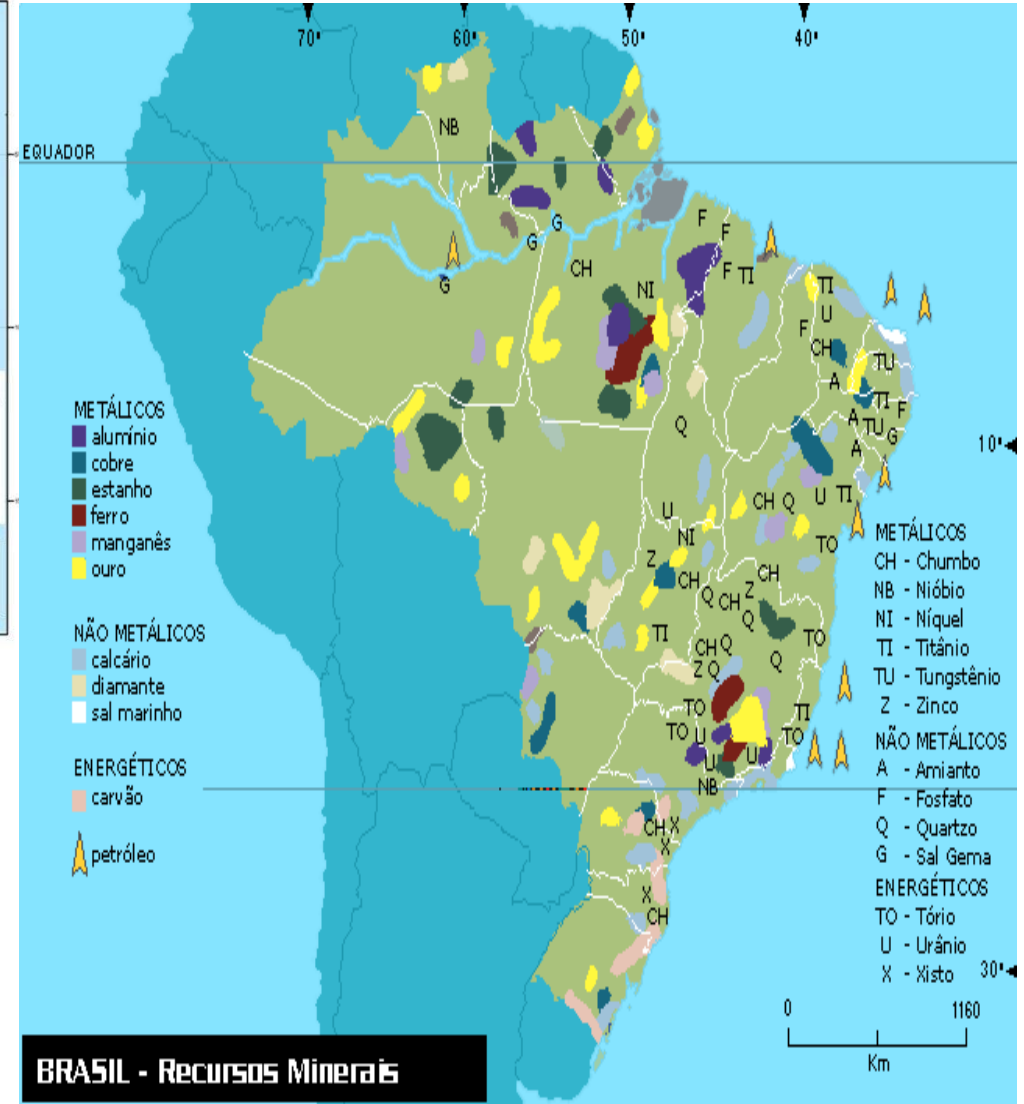
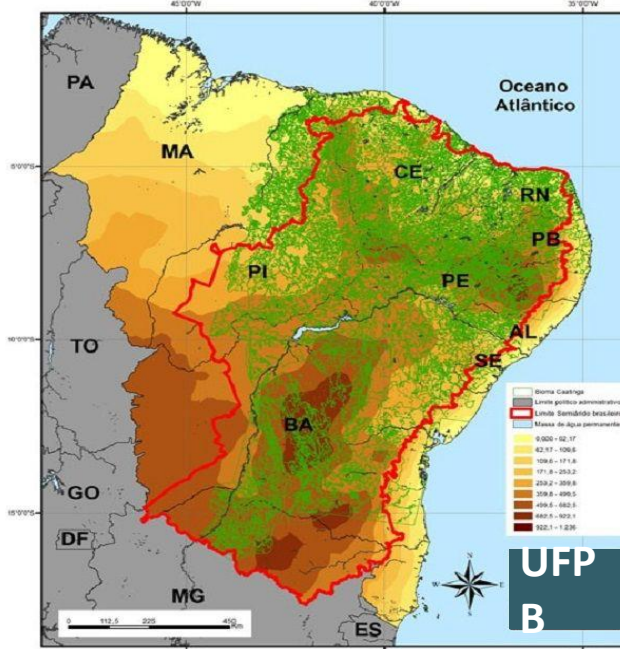
Spain

States United of America

Sweden

United Kingdom

Caatinga biome area





Biodiversity of the Caatinga biome



Fauna



Flora



Bioeconomy



Silva et al., 2017



Caatinga Biome, Biodiversity and Sustainability Projects

1. Omics applied to the prevention of antimicrobial resistance at the human-animal-environment interface in the Caatinga Biome: a One Health Approach;
2. Innovation in Materials, Products and Processes Associated with Environmental Conservation and Sustainability;
3. Sustainability and quality of urban centers and territorial and socio-environmental management;
4. Impacts of climate change on the management of vegetation cover and (socio) biodiversity in the Caatinga biome in Northeast Brazil;
5. Taxonomic Aspects and Ecological Evaluation of Anthropogenic Actions in Caatinga Diversity



Theme 3: Caatinga Biome, Biodiversity and Sustainability



Gonçalves, AS (2020)

PROJECT	BUDGET	PSDE Sandwich PhD		WORK MISSION	TRAINING MISSION
		6 months	1 year		
	R\$				
1	681,636.80		12	10	
2	877,703.00	09	01	09	02
3	388,237.40		06	07	
4	686,270.40	09		08	03
5	444,614.40	06		06	
	3,078,462.00	24	19	40	05



Omics applied to the prevention of antimicrobial resistance at the human-animal-environment interface in the Caatinga Biome: a One Health Approach



PI:

Prof. Celso Oliveira, DVM, PhD

Dept. Animal Science,

College for Agricultural Sciences (CCA), Areia/PB

Project interests

Comparative genomics of multi-drug resistant zoonotic pathogens from animals, food and the environment

Predictive models of development and dissemination of antimicrobial resistance in foodstuff

Bioprospection of antimicrobial alternatives from Caatinga



Partner Institutions and contact researchers

Theme 3 / Project 1



THE OHIO STATE
UNIVERSITY

The Ohio State University, USA

Wondwossen Abebe Gebreyes



UNIVERSITY OF
COPENHAGEN

University of Copenhagen, Denmark

John Elmerdahl Olsen



Technical University of Denmark

Frank Aarestrup



Frei Universität Berlin, Germany

Stefan Schwarz



Rutgers, USA

Donald Schaffner



University of Delaware, USA

Limin Kung Jr



Universitat de Lleida

University of Lleida , Spain

Olga Beloso



LISBOA
UNIVERSIDADE
DE LISBOA

Universidade de Lisboa , Portugal

Rui Bessa



Project Budget: 681,656,80 BRL

- Sandwich PhD Scholarships: 2019 (2), 2020 (2), 2021 (1)
- Visiting Scholar Fellowships: 2021 (2)
- Short-term missions (7-21 days): 2019 (2), 2020 (2)

Kilmer O. Soares – PhD candidate currently at OSU/Veterinary College for a 1-year sandwich under the supervision of Prof. Vanessa Hale
Research projet: Effect of antimicrobials on the gut microbiome of native honey bees in Brazil





Theme 3 / Project 1



Vice President and Provost Bruce McPheron with Vice President of Research Isac Medeiros and Professor Celso Oliveira.

OSU-UFPB MoU renewal , 2018



Innovation in Materials, Products and Process Associated with Environmental Conservation and Sustainability



Sub Project 01: Biorremediation as a tool for aquatic environments recovery

- Maria Cristina Crispim – UFPB – Brazil
- Ana Maria Geraldes – Instituto Politécnico de Bragança - Portugal

Project interests

Biorremediation: Biofilm as a bioremediator community

Producer biofilm in recovery

Degradator biofilm in prevention/decrease pollution: BioMac system



Bioremediation

AFTER

BEFORE



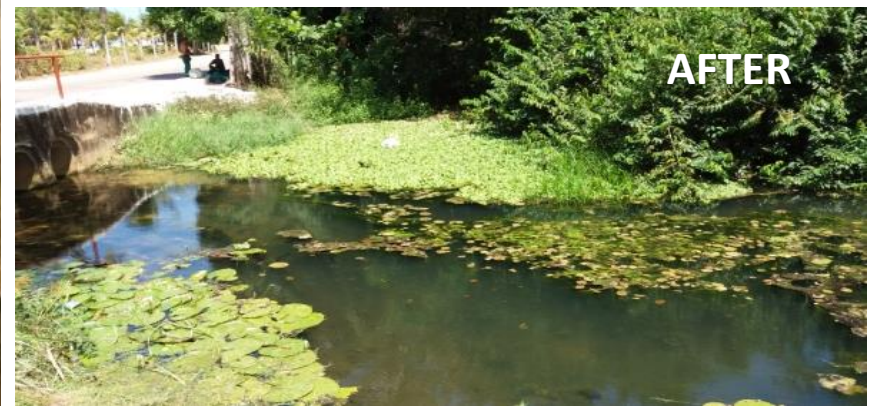
BEFORE



AFTER



AFTER



Eugene C. Braig IV
Program Director, Aquatic Ecosystems



Innovation in Materials, Products and Process Associated with Environmental Conservation and Sustainability



Sub Project 02: Synthesis, characterization and photocatalytic evaluation of nitrated lamellar tantalum-niobates.

- Prof. PhD. Ary da Silva Maia – Chemistry Department, UFPB.
- UR1 Professor Maryline Guilloux-Viry – CSM-ISCR, Université de Rennes 1.
- UR1 Assistant Professor Valerie Bouquet - CSM-ISCR, Université de Rennes 1.
- INSA de l'équipe Chimie du Solide et Matériaux de l'Institut des Sciences Chimiques de Rennes (ISCR)
- Sandwich PhD Scholarships: 2018 (1) Short-term missions (7-21 days): 2018 (1)

Project interests

CNRS Researcher – V&C-ISCR, Université de Rennes 1. Partnership with Université de Rennes 1, Rennes, France.

Development of photocatalysts for environmental remediation of aquatic environments.

Consolidated structure in the study of lamellar niobates, tantalates and tantalonibates.



Theme: Caatinga Biome, Biodiversity and Sustainability

Project 3: Sustainability and quality of urban centres and territorial and socio-environmental management

Coordinator: Prof. Dr. Geovany J. A. Silva

**Post-Doctorate in Architecture (ULisboa)
 Doctor of Architecture and Urbanism (UnB)
 Master in Geography (UFMT)
 Graduation in Architecture and Urbanism (UFU)**



Linked Postgraduate Programs: PPGAU, PPGA, PPGEACAM
Science Areas: Architecture and Urbanism / Civil and Environmental Engineering / Anthropology
Start: 11/2018 End: 08/2022 (46 months)
Knowledge / Research Area: Applied Social Sciences, Engineering 1 and Humanities

Funding and Organization:



Theme 3 / Project 3



- Research impact for the state of the art on the theme Cities, Territorialities, Urban Centres and Sustainability;
- Development of applied research in Architecture and Urbanism, Urban and Environmental Engineering;
- Development of research in Anthropology;
- Production of financed articles, theses, events and international projects;
- Social impact for urban and rural communities;
- Environmental impact for more sustainable urban and regional systems;
- Application of more sustainable technologies for the Built Environment and Urban Quality in Central Areas;

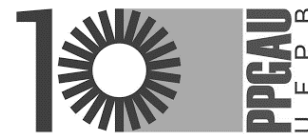
Professors involved: 35

Students: 200

International Universities: 25

Publications: 15 articles in journals; 10 books; 13 chapters (2019/20)

Project Graduate Programs:





Students in Co-Tutorship of Theses in the World at UFPB 2019:

12 STUDENTS:

5 ITALY

UNIVERSITÀ DEGLI STUDI DI FIRENZE;

4 FRANCE

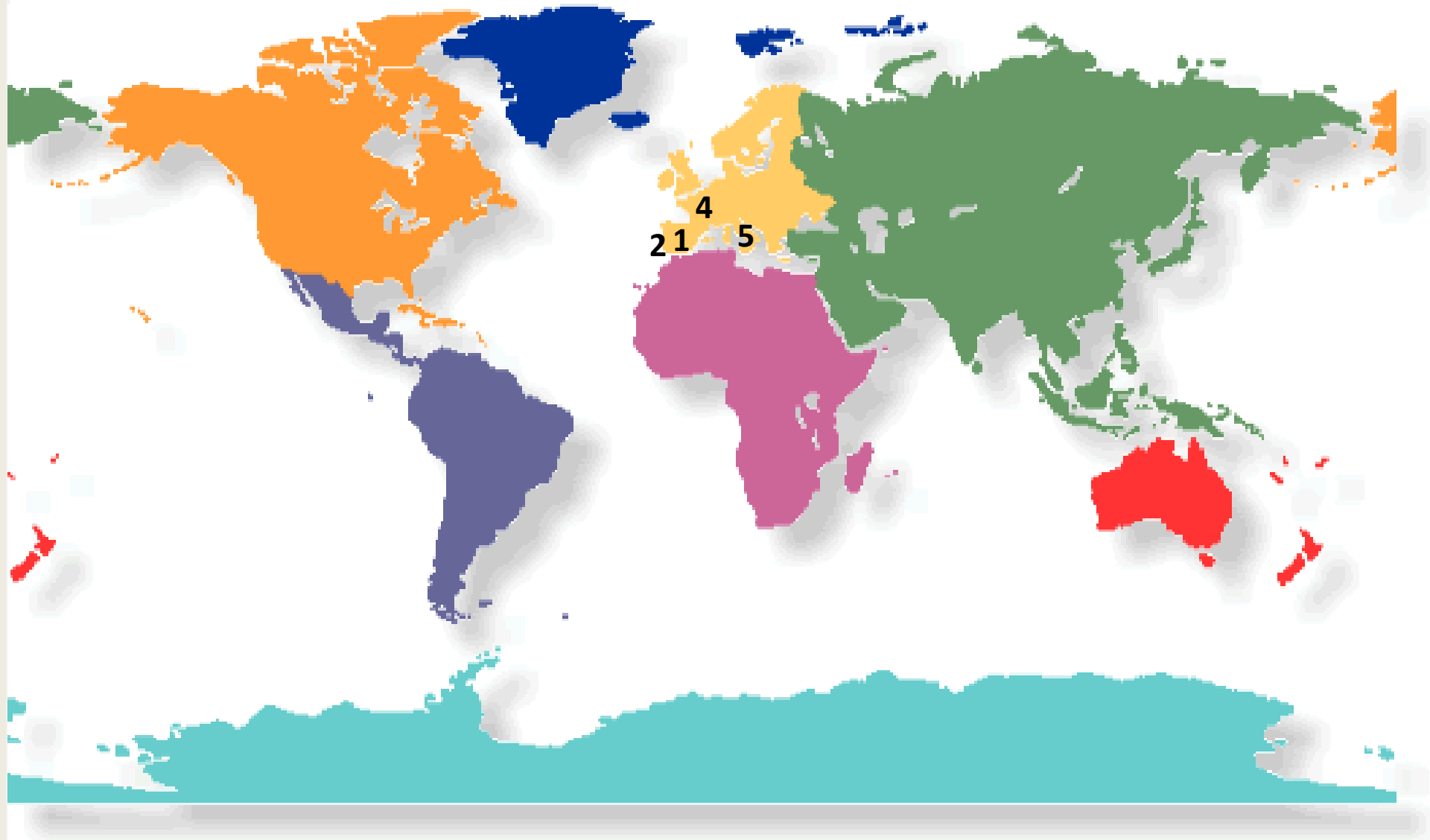
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2 PORTUGAL

UNIVERSITY OF COIMBRA AND
UNIVERSITY OF MINHO;

1 SPAIN

UNIVERSITY OF MALAGA.





24 RESEARCH MISSIONS:

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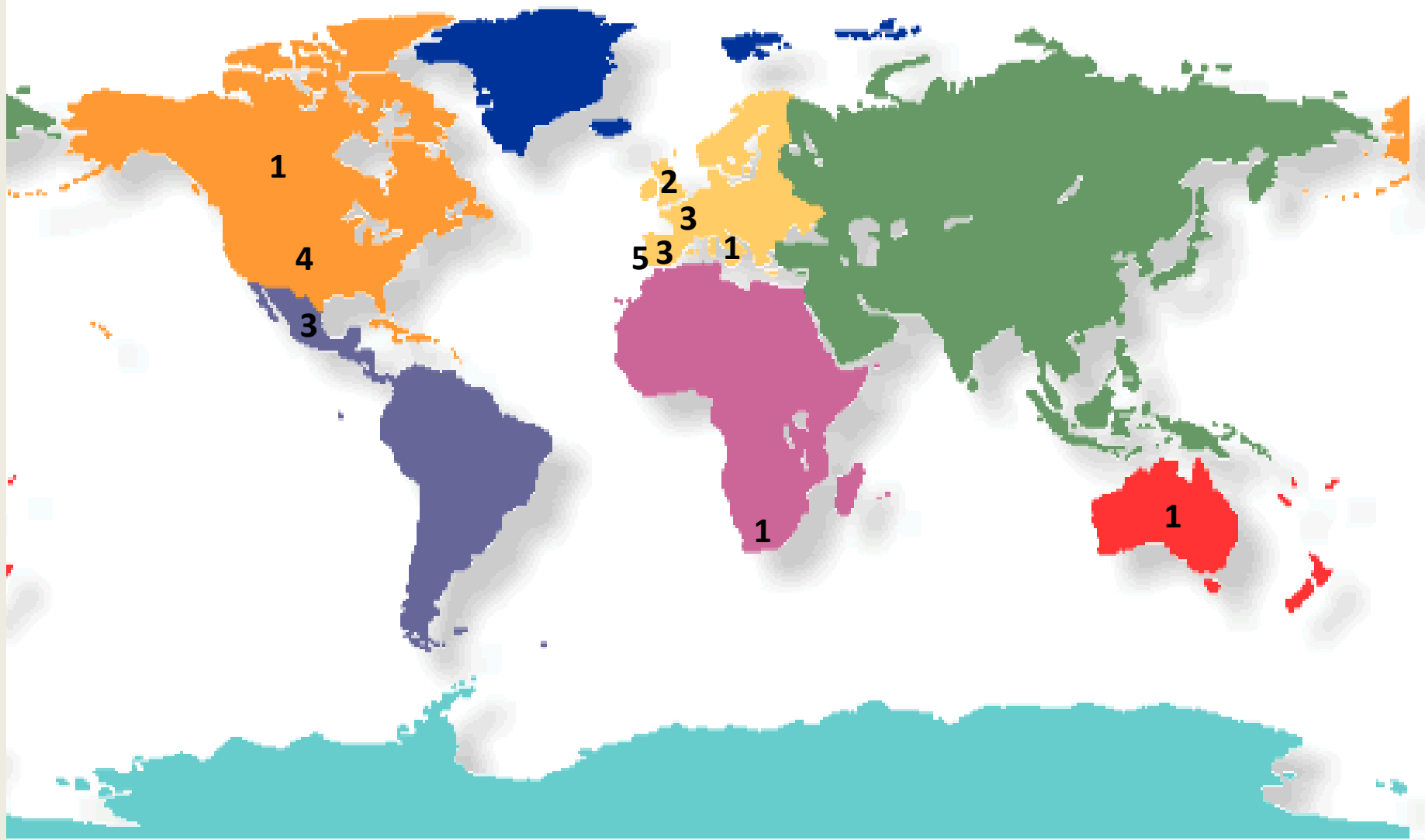
1 SOUTH AFRICA

UNIVERSITY OF SOUTH AFRICA, PRETORIA.

Theme 3 / Project 3



International Missions of Research Professors at UFPB 2019:





Impacts of climate change on the management of vegetation cover and (socio) biodiversity in the Caatinga biome in Northeast Brazil

Project interests

- Prof. PhD. Mailson M Rêgo
- Prof. Gerardo Astolfo Salazar Chavez (UNAM), (UGA) Horticulture
- PhD Student Hanna Ibiapina de Jesus co-tutoring
- Professor Leonardo Pessoa Felix (UFPB)
- Professor Biscaia, from the University of Georgia
- Profa. Dra. Elizanilda Ramalho Department

Bioprospecting active ingredients (flora, fauna, microbiota) with economic potential

Trends in rain and drought time series and their relationship to the desertification process.

Socio-biodiversity and its impacts on the management and domestication of genetic resources carried out by semi-arid farmers

Impacts of climate change on the genetic diversity of Caatinga plants using genomic tools and select plants of economic interest that are resilient to water and saline stresses

Changes in land use and occupation and changes in the landscape resulting from anthropic pressure

Dynamics of the Caatinga, water resources and human actions, using international experiences in areas with similar environmental characteristics



Taxonomic Aspects and Ecological Evaluation of Anthropogenic Actions in Caatinga Diversity



- Prof. Dr. Reinaldo Farias Paiva de Lucena
- Profa. Dra. Denise Dias da Cruz.
- PhD Student Ezequiel da Costa Ferreira
- Universidad Nacional Autónoma de México, Morelia, México
- Pesquisador Parceiro: Alejandro Casas

Project interests

Understanding traditional population relationship with genetic resources available in the Paraíba semi-arid's agroforestry system

Medicinal Plants

Innovation in Materials, Products and Process Associated with Environmental Conservation and Sustainability



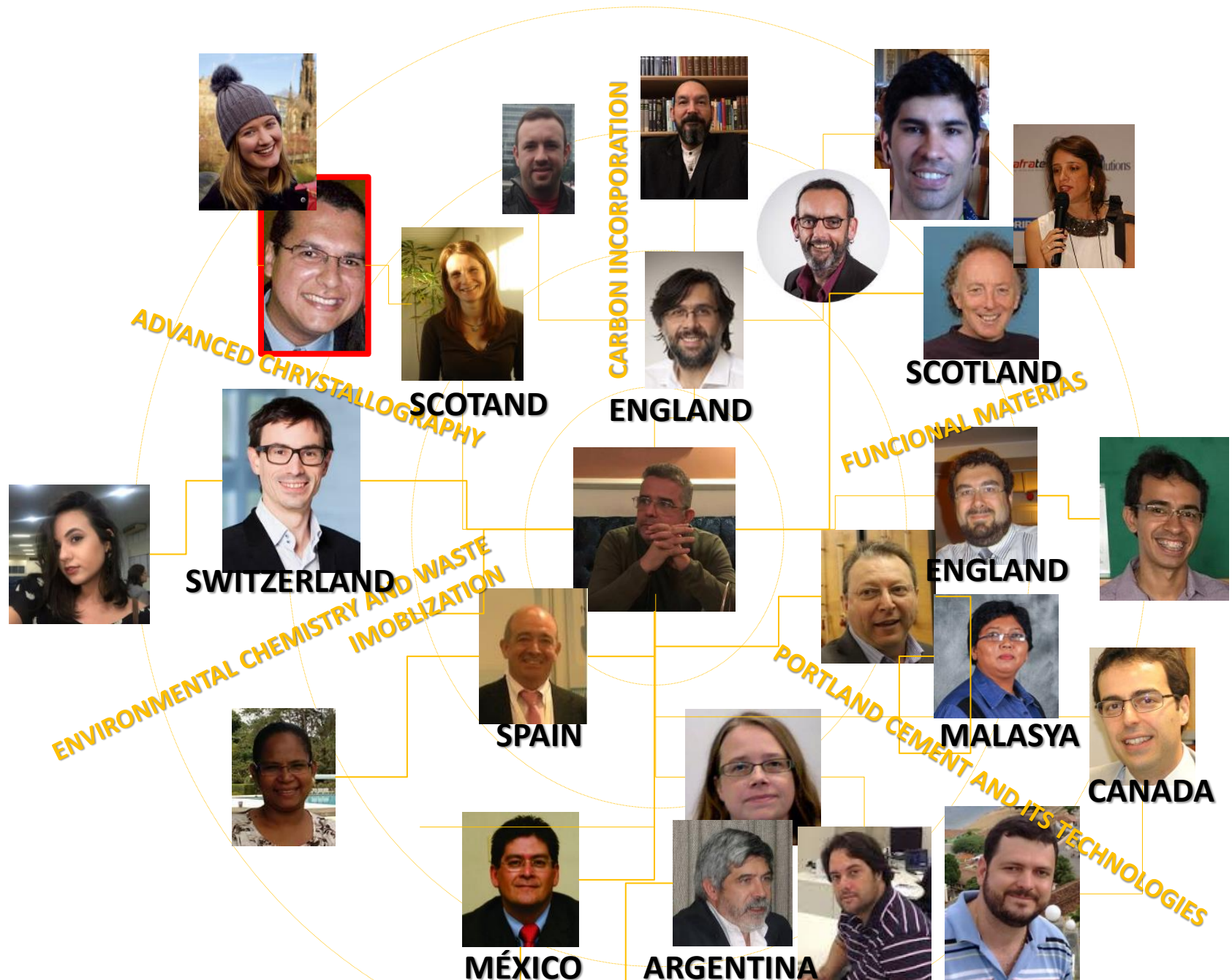
**Sub Project 03: Technical Viable
Prospecting of waste immobilization
within Portland cement production and
consumption chain**

Project interests

Portland Cement Science and Tecnology: Effect of microstrucutre on performance

Alternative and Renewable Sources with Agroindustrial Waste in Construction Materials

Recycling Technologies for Sustainable Development



Psaras McGrier
Associate Professor





Welcome to I11

I11: High Resolution Powder Diffraction

Introduction High-Resolution and Time-Resolved Experiments Long Duration Experiments

2017-Intermittente: High resolution time-resolved x-ray



2018-2020 semanal:

Incorporation of minor constituents into Portland cement tricalcium silicate: Bond valence assessment of the alite M1 polymorph crystal structure using synchrotron XRPD data

Fernandes W, Torres S, Kirk C et al. [See more](#)

Cement and Concrete Research (2020)

Cement and Concrete Research

Volume 136, October 2020, 106125



Incorporation of minor constituents into Portland cement tricalcium silicate: Bond valence assessment of the alite M1 polymorph crystal structure using synchrotron XRPD data

V. Fernandes ^a, S.M. Torres ^{a, c}, C.A. Kirk ^b, A.F. Leal ^a, M.R. Lima Filho ^a, D. Diniz ^a

0 Citations

9 Readers

202

Theme 3 / Project 2



Lisa Burris, Ph.D.

Assistant Professor

Advanced Cementitious Materials Research Group
Advancing Sustainability and Durability in Cement-Based

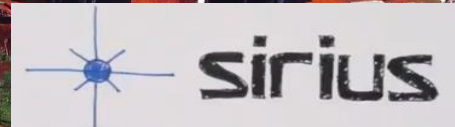


St Mary's CEMEX

-- Lafarge-Holcim



Elizabeth Cimentos Intercement Lafarge-Holcim





Sandro Marden Torres, Ph.D.

Full Professor

Mechanical Engineering Department

TECNOM- New Materials Technology Lab

sandromarden@ct.ufpb.br

I was awarded a PhD by the University of Sheffield in 2004. I joined the Federal University Paraíba in 2005 as a Lecturer in Materials Science and Engineering. I was appointed Assistant Professor in 2008 and Full Professor in 2019 in acknowledgement of my work in research, teaching and collaboration with the regional industry. During his previous experience as Civil Engineer, I was responsible for the construction of several multistory buildings and was a company owner, where he innovated by being specialized in accelerated concrete structures by integrated design and production approaches. I have published 73 papers in international journals (38) and conferences (35) with two industrial patents. I was also in the committee responsible for implementing both the Engineering Materials Undergraduate Course and the Science and Engineering Post-Graduate Programme- PPCEM (Masters and Doctoral Levels) at the UFPB. I have supervised over 14 undergraduates, 20 Masters, 22 PhDs and 4 Postdocs, and currently supervise 6 Masters and 10 Ph.Ds. I have organized three international symposia (FUNCMAT-Functional Materials I and II, ISCM2014-International Symposium in Cementitious Materials within the BMRS-Brazilian Materials Research Society) and co-organized the NOCMAT 2013-International Congress of Nonconventional Materials, hosted in the UFPB, with delegates from 24 countries. I idealized and coordinate the New Materials Technology Lab, a facility dedicated to supply strong scientific bases for sustainable regional industrial development with microstructure characterization techniques (Scanning Electron Microscopy, Energy Dispersive Spectroscopy, Thermal Methods, X-ray Diffraction, IR spectroscopy, X-ray fluorescence). With its infrastructure, I coordinate a research interdisciplinary team of 8 academics and 2 technical staff, dedicated to provide high-level technical consultancy for government and industrial sectors, with the amount of R&D grants above 600,000GBP from both public and private sectors. With strong links with The Elizabeth Cement Group, several academic partnerships have been consolidated along the issue of “Sustainable cements – influence of alternative fuels on reactivity and durability of cement”, involving strong international partnerships outside Brazil.



Federal University of Paraíba - UFPB
Dean of Graduate Studies
CAPES PrInt Project Workshop

Project One - Theme Two

**Social, educational, cultural, linguistic, and
political mediation in contexts marked by
diversity**

Prof. Dr. José Ferrari Neto
Department of Linguistics and Portuguese Language
Head of Graduate Program in Linguistics - PROLING

Participants

Graduate Programs

- Linguistics- PROLING
- Social Sciences - PPGS
- Social Psychology - PPGPS
 - Education - PPGE
- Management - PPGADM
- Human Rights - PPGDH
- Law Sciences - PPGCJ
 - Literature - PPGL
- Sciences of Religions - PPGCR
 - Music - PPGM

Goals of the Theme/Project

- Goal 1 - To solidify and expand the internationalization of programs that investigates the social, educational, cultural, linguistic, and political mediation.
- Goal 2 - To consolidate and to expand the internationalization of programs that discuss the conceptions of spaces, territories and networks, as well as the construction and the evaluation of public policies.
- Goal 3 - To consolidate a policy of network dissemination of research developed in the programs that participate in the territories of the diversity project in the perspective of internationalization.

Description of the Project (I)

The following researches will be developed:

- 1) On violations of human rights, crimes and mass genocides that have been perpetrated in various countries, as well as mapping of perpetrators of violations of human rights and crimes against humanity in important national and international documents, in the fields of art, literature, philosophy, memory, information, and media culture;
- 2) On theoretical aspects of historical and social dimensions that have influenced the trajectory of music education institutionalized in Brazil, showing inclusions, exclusions and other marks left by colonialism that has outlined such a process in Brazil and other Latin American countries and the USA;
- 3) On literatures of minorities, indigenous and afro-Amerindian, from a comparative perspective;
- 4) On the relationship between language and education, the formation of teachers and social representations of the teaching practice, as well as on the processing and acquisition of language linked to the knowledge of the development of language competences;

Description of the Project (II)

- 5) On the different forms of expression of the religious phenomenon, their languages, the mythic dimensions, the social integration of religions, its presence in education, relations with other spheres of society, the imaginary constructed in different cultural contexts, under the historical and ethnographic perspectives;
- 6) On the construction of proposals able to boost the didactic-pedagogical actions in the direction of success in education, promoting knowledge through digital literacy;
- 7) on (trans)judiciality, democracy, and economic effects of power, diversity of legal systems in jus-political spaces;
- 8) studies on various sectors of civil society with the actions of human rights commissions and the strengthening of relations between partners of Unesco Chair;
- 9) on the formation and the activities of school managers in Brazil and in the countries involved to share experiences and develop joint solutions.

Actions and Resources

Work Missions

Year	Quantity	Amount (in Brazilian currency)
2019	4	115.516,00
2020	4	115.516,00
2021	4	115.516,00
2022	4	115.516,00

Actions and Resources

Scholarships associated to the Research Project

Year	Quantity	Modality	Amount
2019	4	Sandwich Doctorate Fellowship (6 months)	80,956.80
2020	4	Sandwich Doctorate Fellowship (6 months)	80,956.80
2021	4	Sandwich Doctorate Fellowship (6 months)	80,956.80
2022	4	Sandwich Doctorate Fellowship (6 months)	80,956.80

Contacts

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The Ohio State Brazil Gateway



Theme 1:

Health Interventions, Technologies, Products, and Processes

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UFPB

UFPB has solid international partnerships on:

- **Health interventions:** theoretical and experimental developments of methodologies for prevention, treatment, and control of chronic diseases;
- **Human behavior, palliative care, and complementary therapies:** including environmental factors on Health;
- **Health technology developments,** such as software, virtual environments, decision making models, clinic and pre-clinic trial, diagnostic kits, and analytical control;
- **Prospection and Development of Health products and processes:** including probiotics, synthetic experimental therapeutics, natural products, biomaterials and computational modeling.

Potentially able to foster actions in public health, particularly drug discovery and nursing.

Recognized excellence on human resources training and knowledge production within Northeastern Brazil.

Modern shared-core facilities (some labs of international multiuser nature)

5 Health-related National Institutes of Science and Technology (INCT), one of which is headquartered at UFPB.



➤ Theme 1 Core Projects:



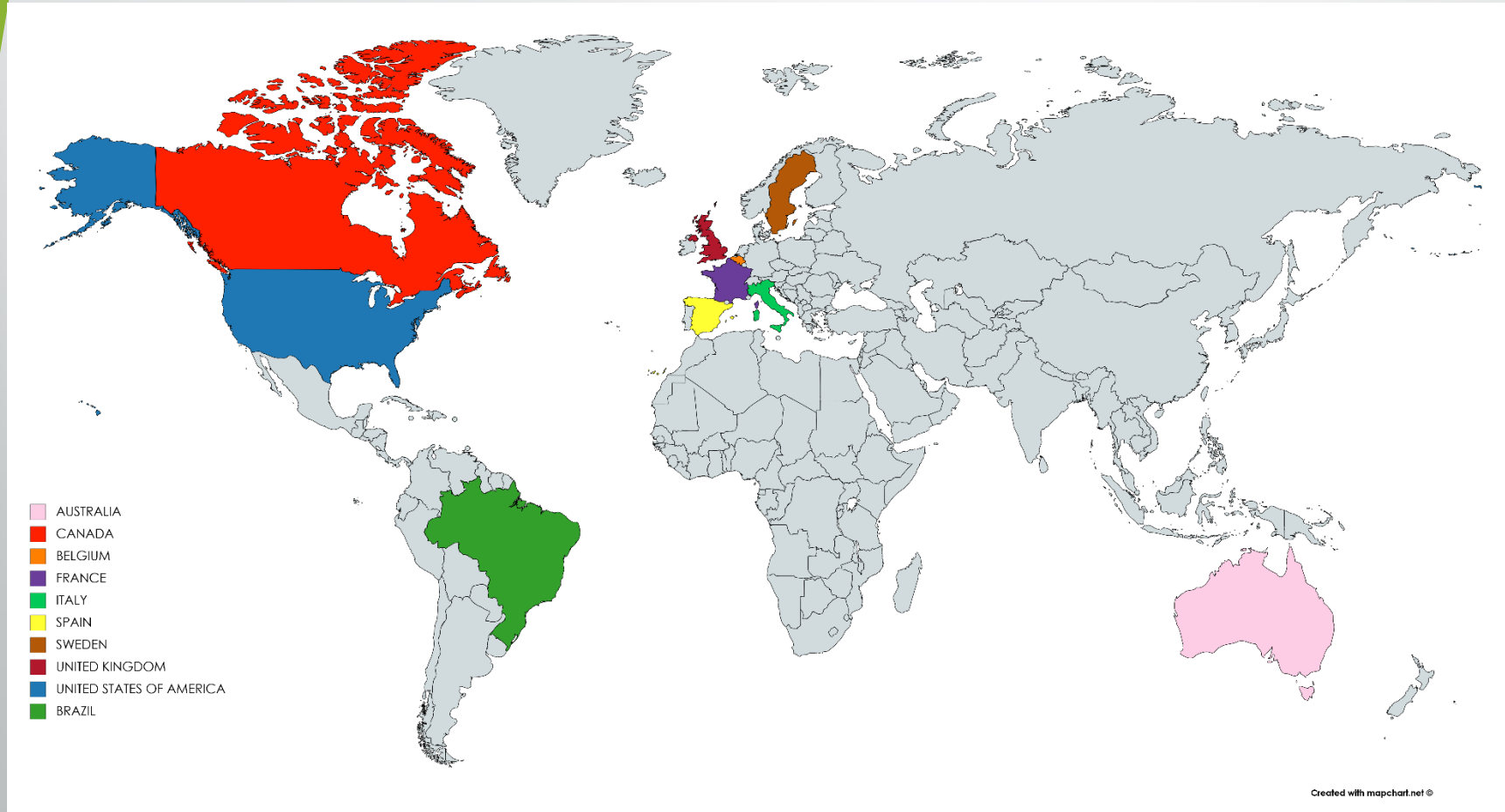
➤ Resources allocation (common to all Theme 1 core projects)

- International outbound **long-term mobility**:
 - Senior or Junior **Visiting Professorships** Abroad (**PVE**)
 - **Doctoral “Sandwich” Scholarships** Abroad (**PDSE**)



➤ 9 Countries of interest:

(based on Graduate Programs ongoing international collaborations)



➤ 12 Graduate Programs (GPs):

- Natural and Synthetic Bioactive Products [[Capes Grade 6](#)]
- Linguistics [[Capes Grade 6](#)]
- Biotechnology – Renorbio Network [[Capes Grade 5](#)]
- Chemistry [[Capes Grade 5](#)]
- Health and Decision Models [[Capes Grade 5](#)]
- Nursing [[Capes Grade 5](#)]
- Cognitive Neuroscience and Behavior [[Capes Grade 4](#)]
- Dentistry [[Capes Grade 4](#)]
- Multicenter Program in Physiology [[Capes Grade 4](#)]
- Nutrition Sciences [[Capes Grade 4](#)]
- Physical Education [[Capes Grade 4](#)]
- Development and Technological Innovation in Medicines [[Capes Grade 4](#)]



- **Project 1:** Prospection, improvement, and design of technological products and processes of Health interest
 - The internationalization efforts within this project aims at **meeting chemical, pharmacological, and social demands** of interests to, for example, **chronic disease, oral health, and speech disorder interventions and diagnoses**.

- **Major areas:**
 - Prospection of natural products
 - Computational modeling
 - Experimental therapeutics and formulations
 - Dental biomaterials

- Participating Graduate Programs:
 - Biotechnology – Renorbio Network
 - Chemistry
 - Dentistry
 - Development and Technological Innovation in Medicines
 - Natural and Synthetic Bioactive Products



➤ Resources for Project 1:

- **Project Maintenance budget:**

- R\$ 10,000.00 (US\$ 1,875) per year
- Total: R\$ 40,000.00 (US\$ 7,500)

- **Scholarships:**

Year	Scholarship type	Beneficiaries
2019	PDSE (12 months)	1
2019	Junior PVE (6 months)	1
2019	Senior PVE (12 months)	3
2020	Junior PVE (12 months)	2
2020	PDSE (12 months)	6
2021	PDSE (12 months)	4
2023	PDSE (12 months)	1
2023	Senior PVE (12 months)	1
	TOTAL	19
	Budged	US\$ 310,000.00

Unassigned

2

PVE

10

PDSE



➤ **2019 subprojects within Project 1:**

• **Scholarships:**

Type	Beneficiary	Program	Institution	Country
PDSE	Sanierlly Nascimento	Chemistry	Univ. of Alberta	Canada
Junior PVE	Prof. Ricardo Castro	Dentistry	Univ. of Pittsburgh	USA
Senior PVE	Prof. Sherlan Lemos	Chemistry	Univ. of Lincoln	UK
Senior PVE	Prof. Valdir Braga	Nat. Synth. Bioact. Prod.	Karolinska Inst.	Sweden
Senior PVE	Prof. Elizete Ventura	Chemistry	Aix Marseille Univ.	France
“BONUS”				
Sabbatical	Prof. Karen Weber	Chemistry	Univ. of Lincoln	UK
Sabbatical	Prof. Silmar Andrade	Chemistry	Aix Marseille Univ.	France

➤ **2019 Research topics:**

- New electroanalytical technologies for health
- Molecular dynamics docking protocols for drug design
- Biomaterials as revitalizing root canal implants
- Polymeric formulations with Brazilian fruit bioactive compound for facilitated oral administration of drugs
- Organic nitrates for treatment of cardiovascular diseases
- Molecular Photochemistry Applied to Medical and Health Problems



- **Project 2:** Biological, psychological, social, and environmental factors and processes related to population health
 - The internationalization efforts within this project aims at evaluating evidences on the influence of **interventions on biological, psychological, social, and environmental factors** and processes related to the **health of special populations**, particularly those **with cardiovascular problems, elderly, and individuals with voice and speech disorders**.

- ***Major areas:***

- Decision models for multidisciplinary intervention
- Physical activity and health
- Voice and speech disorders

- Participating Graduate Programs:
 - Health and Decision Models
 - Linguistics
 - Physical Education



➤ **Resources for Project 2:**

- **Scholarships:**

Unassigned

5

PVE

4

PDSE

Year	Scholarship type	Beneficiaries
2019	Junior PVE (6 months)	1
2020	Senior PVE (12 months)	2
2020	PDSE (12 months)	3
2021	Senior PVE (12 months)	2
2021	Junior PVE (6 months)	1
2023	PDSE (12 months)	1
	TOTAL	10
	Budgeted	US\$ 185,000.00

➤ **2019 subprojects within Project 2:**

Type	Beneficiary	Program	Institution	Country
Junior PVE	Prof. Clarice Martins	Phys. Educ.	Coventry Univ.	UK

➤ **2019 Research topics:**

- Epidemiology, physical education and health

➤ **Project 3:** Pharmacological and non-pharmacological interventions for chronic diseases and human development

➤ ***Major areas:***

- Phytopharmaceuticals
- Care technologies and nursing care
- Neuropsychological changes in dementia
- Physical activity as non-pharmacological treatment
- Neurophysiology, cardiovascular physiology, immunology
- Nutritional interventions

• Participating Graduate Programs:

- Cognitive Neuroscience and Behavior
- Dentistry
- Multicenter Program in Physiology
- Natural and Synthetic Bioactive Products
- Nursing
- Nutrition Sciences
- Physical Education

➤ Resources for Project 3:

- **Project Maintenance budget:**

- R\$ 10,000.00 (US\$ 1,875) per year
- Total: R\$ 40,000.00 (US\$ 7,500)

- **Scholarships:**

Year	Scholarship type	Beneficiaries
2019	Senior PVE (12 months)	1
2019	PDSE (12 months)	4
2020	Senior PVE (3 months)	1
2020	Senior PVE (12 months)	3
2020	PDSE (12 months)	5
2020	Junior PVE (6 months)	2
2021	PDSE (12 months)	4
2023	Senior PVE (12 months)	1
2023	PDSE (6 months)	3
	Total	24
	Budged	US\$ 380,000.00

Unassigned

7

PVE

12

PDSE

➤ **2019 subprojects within Project 3:**

• **Scholarships:**

Type	Beneficiary	Program	Institution	Country
Senior PVE	Prof. Frederico Sousa	Dentistry	Indiana Univ.	USA
PDSE	Carlos Veloso	Nat. Synth. Bioact. Prod.	Univ. La Rochelle	France
PDSE	Ryldene Cruz	Nat. Synth. Bioact. Prod.	Univ. Claude Bernard	France
PDSE	Airlla Cavalcanti	Nat. Synth. Bioact. Prod.	Karolinska Inst.	Sweden
PDSE	Juliana Gomes	Nat. Synth. Bioact. Prod.	Univ. Mississippi	USA

➤ **2019 Research topics:**

- Methodologies for enamel protection against tooth decay
- New molecules controlling the mechanisms of arterial hypertension
- New natural product molecules against human melanoma
- Bioprospecting of secondary metabolites with antioxidant activity
- Effects of thiophene derivatives on glutamatergic NMDA receptors

- **Selected 2019 UFPB funding (in return) to Theme 1:**
 - **Visiting Professorship in Brazil (foreigner beneficiary):**
 - Prof. Eugene Muratov ([Univ. of North Carolina – USA](#))
 - 2-year contract: Natural and Synthetic Bioactive Products Program
 - **Accommodation for visiting professor (1-week mission):**
 - Prof. Mario Barbatti ([Aix Marseille University – France](#))
 - International signatory for Project 1 on CAPES
 - Opening Plenary Lecture on XX SBQT 2019
 - **Chem. Grad. Program co-sponsored a “Columbus in” session in Brazil: [Columbus in João Pessoa](#)**
 - A Quantum Chemistry Course on Multireference Methods, Energy Surfaces and Excited States (30 hours – 2 credits)
 - Instructor: Prof. Hans Lischka ([Texas Tech University – USA](#))
 - Instructor: Prof. Dana Nachtigallova ([The Czech Acad. of Sci. – Czech Rep.](#))
- [Attendance](#): 50 faculties and students from Brazilian Institutions