INTERNATIONAL IBERIAN
NANOTECHNOLOGY
LABORATORY

AGREEMENT

BETWEEN

INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY

AND

FEDERAL UNIVERSITY OF RIO GRANDE - FURG

This Agreement is entered into in Braga (Portugal), on [DATE] of [YEAR].

By and between the undersigned

PARTIES

(1) **INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY** ('the INL'), an intergovernmental organization validly existing under its own Statute, with its registered office at Avenida Mestre José Veiga, 4715-330 Braga (Portugal), hereby duly represented by hereby duly represented by Sonia D'Hautcourt, in her capacity as Head of People & Culture, acting for and on behalf of INL under power delegated by Prof. Dr. Clivia M. Sotomayor Torres, its Director-General,

(2) **FEDERAL UNIVERSITY OF RIO GRANDE**, with registered office at **Avenida Itália, km 8, bairro Carreiros, Rio Grande, RS, Brasil, com CEP 96203-900,,** represented by **Suzane da Rocha Vieira Gonçalves** in the capacity of Rector hereinafter also referred to as 'FURG', and

(3) **KAROLINE PEREIRA RODRIGUES** a PhD Student of the PhD Programme in FOOD ENGINEERING AND FOOD SCIENCE, hereinafter referred to as the 'PhD Student', holder of Passaport No [redacted], resident at [ADDRESS].

Separately, the INL, the FURG and the PhD Student shall also be referred to herein as 'the Party' and jointly as 'the Parties'.

The following has been agreed:

INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY

1. Subject matter

1.1. The main purpose of this agreement is to supplement the studies of the PhD Student by providing the opportunity to undertake research/technical activities at the INL in order to complete a PhD Thesis, as part of the curricular programme of the PhD's degree at the FURG.

1.2. The subject matter of this Agreement and the exact scope of the work to be performed is specified in the Work Programme attached as Annex 1 to this Agreement ('Work Programme'). The Work Programme may be updated and/or supplemented at the request of either of the Parties on the basis of ongoing developments, which must be coordinated and signed by the Parties.

1.3. The PhD Student shall not be assigned work unrelated to the subject matter of this Agreement.

2. Term

2.1. This agreement shall have a term of 9 months, starting on September 2026 and ending on May 2027.

3. Performance of functions

3.1. During the period of stay at INL the PhD Student and the INL Supervisor will agree on the expected period of dedication per week from Monday to Friday. The daily arrangement of these hours will be set out with INL supervisor.

3.2. The INL will allow the PhD Student to attend curricular unit classes, exams, weekly meetings with the FURG supervisor, where applicable, and to take school holidays.

4. Status at the INL

4.1. The PhD Student shall be enrolled as a student at the FURG. Furthermore, during the stay at the INL, the PhD Student shall have the status of an associated member of the personnel being also subject to the INL's Staff Rules and Regulations, where applicable considering the PhD Student status at INL. As such, he will not be employed by the INL.

4.2. The INL will provide insurance cover on behalf of the PhD Student against accidents and civil liability to the extent and for the period of association with INL and whilst at INL facilities.

4.3. The FURG shall ensure that there shall at all times during the PhD Student's association with the INL be adequate scholar insurance cover. If the PhD Student suffers an accident performing this agreement, the INL undertakes to inform the FURG and to forward all relevant information to it.

5. Role and Responsibilities of the Parties

5.1. Each Party undertakes to take part in the efficient implementation of this Agreement, as well as cooperate, perform and fulfil, promptly and on time, all of its obligations under this Agreement as may be reasonably required from it and in a manner of good faith.

5.2. The FURG hereby appoints MARIANO MICHELON as the FURG supervisor of the PhD Student, who will provide the conditions necessary to carry out the activities planned in the Work Programme.

5.3. The INL as the host institution specifically hereby appoints ARTUR MARTINS as the INL supervisor of the PhD Student, who will be responsible for:

(a) Integrate the PhD Student, inform him of his duties for the duration of the development of the PhD Thesis and define for the PhD Student areas and actions of observation and performance within the host institution;
(b) Provide the PhD Student with training in Safety and Security appropriate to the specific activities to be carried out by the PhD Student;
(c) Monitor the PhD Student, define the conduct and good practice of the Host Institution, encourage the PhD Student to provide feasible work suggestions and develop those that are approved, and promote the PhD Student's professional and scientific know-how;
(d) Inform the PhD Student of information or materials on which it is necessary to observe confidentiality;
(e) Assess, at the end of the Agreement, the results obtained by the PhD Student.

5.4. The PhD Student specifically undertakes to:

(a) Comply regularly and punctually with the working hours agreed with the INL, specifically with the PhD Student supervisor at INL;
(b) Comply diligently, with diligence and professional secrecy, with activities relating to this Agreement and to respect the INL's internal rules and regulations;
(c) Demonstrate an interest in learning and performing the tasks assigned to him under this Agreement;
(d) Treat the employees of the INL and other people in contact with them politely and with respect;
(e) Comply with the instructions that are given by the INL Supervisor;

(f) Comply with the standards for environmental management, safety at work and discipline in force at the INL;
(g) Prepare and submit to FURG for evaluation the PhD Thesis in accordance with the standards expected by FURG;

6. Industrial and Intellectual Property Rights

6.1. Definition of Background Knowledge

6.1.1. 'Background Knowledge' means any inventions, designs, information, know-how, specifications, formulae, data, processes, methods, techniques, and other technology, other than Foreground Knowledge, used in, or disclosed by the INL to the PhD Student in connection with the performance of this Agreement and the Industrial and Intellectual Property Rights therein.

6.1.2. Background Knowledge of the INL, including all non-severable improvements or developments thereof and that cannot be used without infringing such Background, shall remain the property of the INL.

6.1.3. The Parties shall identify and agree upon the Background Knowledge relevant to this Agreement. Such Background Knowledge shall be listed in Annex 2, which forms an integral part of this Agreement. Each Party shall ensure that the list is accurate and updated as necessary during the term of the Agreement.

6.2. Use of Background Knowledge

6.2.1. During the term of this Agreement, the INL and the PhD Student may have a mutual, royalty-free, non-exclusive licence to use one another's Background Knowledge to the extent it is necessary for the completion of this Agreement, insofar as the Parties are able to grant such licence and subject to third party rights.

6.2.2. This non-exclusive licence shall neither constitute a right to commercial exploitation of such Background Knowledge nor a right to issue sub-licences to third parties. This non-exclusive licence shall expire without further notice once the Agreement has been completed and, in any case, not later than at the end of the Term of this Agreement.

6.3. Definition of Foreground knowledge

6.3.1. 'Foreground knowledge' means all information, know-how, specifications, formulae, data, processes, methods, techniques, results and other technology obtained or developed in the course of this Agreement and the Intellectual Property Rights therein.

6.3.2. The INL and the PhD Student shall own the Foreground Knowledge created solely by the Party in question in connection with this Agreement and is derived from, or based on, its own Background Knowledge and/or

its own Foreground Knowledge, always assuring that the copyright of the PhD will remain exclusively with the PhD Student

6.3.3. Foreground Knowledge created jointly shall be jointly owned by the INL and the PhD Student pro rata to their contribution to the developed Foreground Knowledge. All forms of disposal of jointly owned Foreground Knowledge shall require agreement between the Parties.

7. Dissemination

7.1. Foreground Knowledge jointly owned by INL and the PhD Student may be published by one of the Parties if the other Party does not wish to take part in the publication.

7.2. The Party who wishes to publish Foreground Knowledge as mentioned shall notify the other Party at least 30 (thirty) days prior to the intended time of the publication and forward the text and any additional material the Party wishes to publish. Until 30 (thirty) days after receipt of the notice, the receiving Party can request that publication be postponed by up to four months from the date of receipt, provided the Party proves that the postponement is important for the Party's prospects of acquiring intellectual property rights protection of the Knowledge the other Party wishes to publish.

7.3. Publication of Knowledge shall always take place with due respect for the duty of confidentiality laid down in Clause 9 of the Agreement.

7.4. Each Party agrees that any publication in a scientific/academic journal shall give due acknowledgement to the financial and/or intellectual contribution of the other in accordance with standard scientific practice.

7.5. This Clause does not apply to the submission of the PhD Thesis, which is governed by Clause 8.

8. Thesis

8.1. This Agreement shall not prevent or hinder the PhD Student from following the FURG's procedures for examination and for admission to the PhD's degree (such procedures shall however include provisions to place the PhD Thesis on restricted access within the FURG's library or other national library or deposit according to the applicable Portuguese law, if needed).

8.2. During the term of this Agreement, the INL Supervisor and the FURG supervisor shall identify at the progress meetings any Background Knowledge of the Parties which the PhD Student may wish to incorporate into the PhD Thesis. The Parties shall decide whether or not to allow such Background Knowledge to be used in the PhD Thesis. If this decision gives rise to a requirement to amend the description of the PhD Thesis, such

amendment shall be mutually agreed between the INL Supervisor, the FURG supervisor and the PhD Student and forwarded to the contracting authorities of the FURG and the INL for authorisation.

8.3. The PhD Student shall follow the FURG regulations for the submission of the PhD Thesis for examination. In any event the PhD Student shall submit a draft PhD Thesis to the INL Supervisor and the FURG Supervisor at least (30) thirty days prior to the date for submission for examination.

8.4. The PhD Student may not, without the INL's express written consent, include in any PhD Thesis any Background Knowledge or Foreground Knowledge belonging solely to the INL.

8.5. The INL authorises the disclosure of information involved in the PhD Thesis, in the form of restricted access web pages, extended abstracts and presentations at FURG, particularly in the context of any academic public examination to be assessed by a jury, of which at least one member is a teacher or researcher external to FURG.

8.6. The final report of the student's PhD Thesis will be assessed by the jury of examiners referred to above and will be published according to the current applicable Portuguese legislation. Upon completion of the PhD Thesis, if needed access to the contents may be restricted for a period of 1 year.

9. Duty of confidentiality

9.1. All information in whatever form or mode of communication, which is disclosed by a Party (the 'Disclosing Party') to any other Party (the 'Recipient') in connection with this Agreement during its execution and which has been explicitly marked as 'confidential' at the time of disclosure, or when disclosed orally has been identified as confidential at the time of disclosure and has been confirmed and designated in writing within 15 calendar days from oral disclosure at the latest as confidential information by the Disclosing Party, is 'Confidential Information'.

9.2. The Recipients hereby undertake, for a period of five (5) years after the end of this Agreement:

(a) Not to use Confidential Information otherwise than for the purpose for which it was disclosed;
(b) Not to disclose Confidential Information to any third party without the prior written consent by the Disclosing Party;
(c) To ensure that internal distribution of Confidential Information by a Recipient shall take place on a strict need-to-know basis; and
(d) To return to the Disclosing Party on demand all Confidential Information which has been supplied to or acquired by the Recipients including all copies thereof and to delete all information stored in a machine readable form. The Recipients may keep a copy

to the extent it is required to keep, archive or store such Confidential Information because of compliance with applicable laws and regulations or for the proof of on-going obligations.

9.3. The Recipients shall be responsible for the fulfilment of the above obligations on the part of their employees or third parties involved in this Agreement and shall ensure that they remain so obliged, as far as legally possible, during and after the end of this Agreement and/or after the termination of the contractual relationship with the employee or third party.

9.4. The above shall not apply for disclosure or use of Confidential Information, if and in so far as the Recipient can show that:

(a) The Confidential Information becomes publicly available by means other than a breach of the Recipient's confidentiality obligations;
(b) The Disclosing Party subsequently informs the Recipient that the Confidential Information is no longer confidential;
(c) The Confidential Information is communicated to the Recipient without any obligation of confidence by a third party who is to the best knowledge of the Recipient in lawful possession thereof and under no obligation of confidence to the Disclosing Party;
(d) The Confidential Information, at any time, was developed by the Recipient completely independently of any such disclosure by the Disclosing Party; or
(e) The Confidential Information was already known to the Recipient prior to disclosure; or
(f) The Recipient is required to disclose the Confidential Information in order to comply with applicable laws or regulations or with a court or administrative order, subject to the provision of Clause 9.7. hereunder.

9.5. The Recipient shall apply the same degree of care with regard to the Confidential Information disclosed within the scope of this Agreement as with its own confidential and/or proprietary information, but in no case less than reasonable care.

9.6. Each Party shall promptly advise the other Party in writing of any unauthorised disclosure, misappropriation or misuse of Confidential Information after it becomes aware of such unauthorised disclosure, misappropriation or misuse.

9.7. If any Party becomes aware that it will be required, or is likely to be required, to disclose Confidential Information in order to comply with applicable laws or regulations or with a court or administrative order, it shall, to the extent it is lawfully able to do so, prior to any such disclosure notify the Disclosing Party and comply with the Disclosing Party's reasonable instructions to protect the confidentiality of the information.

10. Data protection

10.1. Data Protection Legislation means all applicable data protection and privacy legislation and all other legislation and regulatory instruments and requirements in force from time to time which apply to each Party relating to the use of Personal Data, including, without limitation, the privacy of electronic communications and codes of practice applicable. The Parties undertake to comply with the provisions and the requirements of the Data Protection Legislation.

10.2. Without prejudice to the generality of the previous number, each Party shall, in relation to any personal data processed in connection with the performance of its obligations under this Agreement: i) ensure that it has all necessary appropriate consents and notices in place to enable lawful processing of personal data, ii) process personal data only for the purposes and to the extent required by the Agreement; iii) keep personal data only as long as is necessary for the purposes of the Agreement; iv) ensure that it has in place appropriate technical and organisational measures to protect against unauthorised or unlawful processing, accidental loss, destruction or damage to personal data, having regard to the state of technological development and the cost of implementing any measures; v) ensure that all personnel who have access to and/or process personal data are obliged to keep the personal data confidential; vi) ensure that personal data is not transferred without suitable safeguards and only when the Data Protection Legislation requirements are met; vii) notify the other Party immediately on becoming aware of a personal data breach, and viii) maintain records and/or information to demonstrate its compliance with this clause.

10.3. This clause is in addition to, and does not relieve, remove, or replace a Party's obligations or rights under the Data Protection Legislation applicable to each Party.

11. Dispute Resolution

11.1. The Parties shall endeavour to resolve claims, disputes, or other matters in question between them amicably. Any disputes arising out of or in conjunction with this Agreement in question between the Parties that cannot be resolved shall be referred to the Parties' senior management. If senior management is unable to resolve such claim, dispute or other matter in questions within ten (10) days, or such longer period as they may specifically agree in writing, such claim, dispute or other matter in question shall by virtue of INL's status as an Intergovernmental Organisation be submitted to arbitration.

11.2. The Parties hereby agree that any dispute, controversy or claim arising out of or relating to this Agreement, or the breach, termination or invalidity

thereof, shall be finally settled by arbitration in accordance with the UNCITRAL Arbitration Rules as at present in force, expressly waiving their right to any other form of legal recourse.

11.3. The number of arbitrators shall be one (1).

11.4. Should the Parties fail to agree on appointing the sole arbitrator, the Parties designate the Secretary-General of the Permanent Court of Arbitration (The Hague, The Netherlands) as the appointing authority responsible for appointing the sole arbitrator.

11.5. The arbitrator shall render his decisions in accordance with the provisions of the present Agreement.

11.6. The place of arbitration shall be the city of Braga (Portugal).

11.7. The language to be used in the arbitral proceedings shall be English.

11.8. The Arbitrator shall issue the award within three (3) months following the date of acceptance of the arbitrator to act as arbitrator. The Parties undertake to implement the arbitration award, which shall be final and binding.

12. Execution and Counterparts

12.1. This Agreement may be executed in three (3) counterparts, each of which when executed and delivered shall constitute a duplicate original, but all the counterparts shall together constitute the one agreement.

12.2. This Agreement may be executed using either a wet-ink signature, an electronic signature as set out in Regulation (EU) N°910/2014 on electronic identification and trust services for electronic transactions in the internal market (eIDAS Regulation).

12.3. No counterpart shall be effective until each Party has executed and delivered at least one counterpart to the INL.

IN WITNESS WHEREOF, the Parties have signed this Agreement in three counterparts, which shall together constitute one agreement, in the place and on the date first above written.

Signature authorized by Clivia M. Sotomayor Torres.
Document electronically signed on 2026-10-21 10:51:49 +00:00.
Document sent to email d**********l@inl.int.

Qualified Electronic Seal created by the SigningDesk platform.
DigitalSign - Certificadora Digital, S.A.

SIMPLE SIGNATURE

ASSINADO DIGITALMENTE
SUZANE DA ROCHA VIEIRA GONCALVES
A conformidade com a assinatura pode ser verificada em:
https://serpro.gov.br/assinador-digital

Sonia D'Hautcourt[1]
Head of People & Culture
INL

Suzane da Rocha Vieira Gonçalves
Rector of FURG
FURG

Documento assinado digitalmente
KAROLINE PEREIRA RODRIGUES
Data: 09/09/2026 19:47:30-0300
Verifique em https://validar.iti.gov.br

KAROLINE PEREIRA RODRIGUES
PhD Student

[1] In accordance with DGR/DIR/313, concerning the delegation of the Director-General's powers of signature to Sonia D'Hautcourt, Head of People & Culture of the INL.

INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY

ANNEX I

WORK PROGRAMME

INL Supervisor	Dr. Artur Martins
Home Institution Supervisor	Dr. Mariano Michelon
Commencement Date	September 2026
Completion Date	May 2027
Title	Rheological and tribological characterization of pullulan and pectin hybrid systems for applications in functional materials
Field of Application	Food science and engineering, with a focus on biopolymer-based functional materials and food applications.
Work scope	The work will focus on the development and characterization of pullulan-based materials and their incorporation into functional systems. The activities will include the preparation of pullulan and pullulan-based systems, physicochemical and structural characterization, and evaluation of rheological and tribological properties.
Goals	* To develop and characterize pullulan-based functional materials. * To evaluate their physicochemical, rheological, and tribological properties. * To acquire new knowledge and technical skills through the use of advanced characterization techniques at INL. * To strengthen the collaboration between the research groups at FURG and INL.
Timetable	September 2026: Training in rheological and tribological equipment. October 2026: Rheological tests of isolated pullulan and isolated pectin. November 2026: Preparation of pullulan-pectin hybrid systems at different proportions. November 2026 – January 2027: Rheological tests of the combined pullulan-pectin systems. January – February 2027: Tribological tests of the pullulan-pectin hybrid systems. February – March 2027: Thermal stability and FTIR analyses. April – May 2027: Evaluation and definition of the potential applications of the studied systems.

Reporting requirements	Progress will be discussed regularly with the host supervisor and the home institution supervisor through meetings and updates on the experimental activities and results.
Dissemination	The results obtained during the Work Programme will be disseminated through scientific publications, conference presentations, and incorporation into the PhD thesis.
Changes	Changes to the Work Programme may be made when necessary due to experimental results, technical limitations, or changes in the research schedule. Any substantial changes will be discussed and agreed upon by the home and host supervisors.

The subject matter of this Agreement and the exact scope of the work to be performed is specified in the Work Programme. The Work Programme may be updated and/or supplemented at the request of either of the Parties on the basis of ongoing developments, which must be coordinated and signed by the Parties.

INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY

ANNEX 2

BACKGROUND KNOWLEDGE LIST

This Annex forms an integral part of the Agreement and identifies the Background Knowledge made available by the Parties for the performance of the Agreement.

A. Background provided by INL

Describe Background	Specific limitations and/or conditions for implementation
Technical knowledge and expertise in the characterization of biopolymer-based materials and functional systems, including rheological and tribological analysis, physicochemical characterization, and related experimental methodologies and equipment available at INL.	The background knowledge, methodologies, equipment, and technical expertise provided by INL shall be used solely for the purposes of the Work Programme and in accordance with the applicable institutional rules and the terms of the Agreement.

B. Background provided by NAME

Describe Background	Specific limitations and/or conditions for implementation
Pre-existing knowledge and research results related to the production and characterization of pullulan obtained from *Aureobasidium pullulans*, as well as the development and characterization of pullulan- and pectin-based systems. This includes experimental protocols, characterization data, and technical know-how developed at FURG and relevant to the Work Programme.	The background knowledge and research results provided by FURG shall be used solely for the purposes of the Work Programme and subject to the terms of the Agreement and applicable institutional and funding rules.