

BOURSES FONDATION PIERRE LEDOUX – JEUNESSE INTERNATIONALE
47^{ème} APPEL D'OFFRE
PASTEUR NETWORK
Propositions de Stages

Institut	N°	Labo/Service d'accueil	Responsable (nom, e-mail)	Thématique	Durée	Formation initiale	Date d'arrivée souhaitée	Hébergement sur le campus et coût
Institut Pasteur du Cambodge	1	Immunology Unit	Tineke Cantaert, tcantaert@pasteur-kh.org	<p>“Evaluation of host immune responses to arbovirus infection”.</p> <p>Mosquito-borne viral infections such as dengue are a major health problem worldwide with half of the population at risk of infection. Our laboratory investigates the B, T and antibody responses to various arbovirus infections such as dengue and chikungunya and the skin immune response to mosquito bites. Techniques commonly used in the laboratory are primary cell isolation and culture, flow cytometry, multiplex bead assays and scRNAsequencing.</p>	5 months minimum	M1/M2 in biomedical sciences	2023, variable	If available, 250-300 USD/month
Institut Pasteur du Cambodge	2	Unité d'épidémiologie et de Santé Publique	Claude FLAMAND cflamand@pasteur-kh.org	<p>Analyse de la dynamique spatiale de la dengue au Cambodge</p>	6 mois	Mastère spécialisé Santé publique Pasteur- CNAM Master II Epidémiologie/ Bio statistiques/ Santé Publique	Mai Juin 2023	Possible, 250-400 USD/mois Fonction des disponibilités

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Institut Pasteur de Guinée	3	Unité de Virologie Institut Pasteur de Guinée (IPGui)	Pierre ROQUES Pierre.roques@pasteur.fr Pierre.roques@pasteur-guinee.org	Cartographie des système et réseau de traitement des eaux usées en Guinée Conakry – application à une stratégie d'échantillonnage biologique.	3 mois	Etudiant en Géographie Master 1 ou II – option – aménagement développement Compétence en SIG	Septembre 2023 ou Janvier 2024	NON / 700 Euros
Institut Pasteur de Madagascar	4	Unité de Bactériologie Expérimentale	Tania CRUCITTI trucitti@pasteur.mg	Développement d'un outil moléculaire pour le diagnostic de la vaginose bactérienne en utilisant des tests de PCR quantitative pour la quantification des lactobacilles, <i>Gardnerella vaginalis</i> et <i>Fannyhessae vaginae</i> dans les sécretions vaginales	10 mois	Biologiste (Médecin ou pharmacien en spécialisation) Master 2, Science Biomédicale	Septembre 2023	Oui
Institut Pasteur de Madagascar	5	Unité de Bactériologie Expérimentale	Lalainaso Odile RIVOARILALA odile@pasteur.mg	Développement du test PCR en temps réel en multiplex pour la détection des entéropathogènes diarrhéiques des enfants à Madagascar	6 mois	Master 2, Biologie moléculaire ou équivalent	Avril – Mai 2023	Oui
Institut Pasteur de Madagascar	6	Unité d'Entomologie Médicale	Diego AYALA Diego.ayala@pasteur.mg	Évolution moléculaire de la résistance aux insecticides chez les principaux vecteurs du paludisme à Madagascar	6 mois	Master 2	Septembre - Novembre 2023	Oui, selon disponibilité, 170€ (selon le cours de l'euro)

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Institut Pasteur de Montevideo	7	Research Investigation Laboratory on Chronic Lymphocytic Leukemia	Pablo Oppezzo, poppezzo@pasteur.edu.uy	<p>Specific/Unmutated IgHV rearrangements and AID expression in chronic lymphocytic leukemia identifies patients with poorest clinical outcome</p> <p>The internship is devoted to finish a manuscript to be submitted in the second half of the year 2023. The intern will participate as co-author of the publication. The main technical approaches are quantitative PCR and flow cytometry with focus on AID expression in leukemic cells.</p>	From 3 to 6 months	Doctoral or post-doc level with technical independency	May/June 2023	No accommodation on campus.
Institut Pasteur de Montevideo	8	Microbial Genomics Lab	Bruno Manta bmanta@pasteur.edu.uy Gregorio Iraloa giraola@pasteur.edu.uy	<p>Microbiome of the oral cavity in health and disease.</p> <p>The internship is aimed to study the microbial composition and dynamics of the oral cavity by means of NGS. Candidate is expected to perform the entire pipeline from DNA extraction to library preparation, sequencing and data analysis (metagenomic). Certain key species like <i>Campylobacter concisus</i> and <i>Faecalibacterium prausnitzii</i> will be cultured from human saliva and subgingival pocket samples in order to do population genomics and functional metagenomic.</p>	4-5 month	Bachelor in science preferably with training in molecular biology and/or basic skills in NGS and bioinformatic. MSc degree also welcomed	January 2024	No accommodation on campus.

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Institut Pasteur de Montevideo	9	Experimental evolution of viruses (G4-Lab) Head: Dr. Gonzalo Moratorio moratorio@pasteur.edu.uy	Dr. Marianoel Pereira-Gómez mnpereira@pasteur.edu.uy	Evolutionary Biology and Pathogenesis of Coronaviruses This multidisciplinary project involves in vitro (biochemical and molecular biology), cell culture and in vivo (mouse model) approaches using the murine hepatitis coronavirus (MHV) as a model. The intern will be trained to perform protein expression, purification, and biochemical assays, DNA/RNA extractions from biological samples, virological assays in cell culture, and/or validation experiments in the mouse model. Our goal is to discover new pan-coronaviruses antivirals to understand better the pathogenesis and multiorgan disease.	3 to 6 months (to discuss with the interested persons)	Graduate or Master's degree in Biology, Biochemistry, Biomedicine, Veterinary. Previous experience with Molecular Biology and/or with mouse work is not mandatory. We encourage people that would like to learn Spanish and have fun while working.	May to August 2023 (negotiable)	No accommodation on campus.
Institut Pasteur de Nouvelle Calédonie	10	Unité de Recherche et d'Expertise – Dengue et Arboviroses	Catherine INIZAN cinizan@pasteur.nc	Rôle de l'immunité humorale dans la dynamique de remplacements sérotypiques des virus de la dengue Les souches du virus de la dengue se répartissent en 4 sérotypes (DENV-1 à -4) sur la base de leurs propriétés antigéniques. L'immunité acquise en réponse à l'infection par l'un des sérotypes confère une immunité protectrice contre le sérotype infectant et une immunité croisée faiblement neutralisante voire potentialisante contre les autres sérotypes (Antibody-Dependent Enhancement). Le projet évalue le rôle d'une immunité antérieure contre le sérotype majoritaire du virus de la dengue dans l'émergence ou l'extinction des sérotypes minoritaires.	6 mois	Master 2 ou équivalent bac + 5	01/01/2024	Non

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CERMES	11	UPEM	Pr Laminou UPEM lamine.cermes@gmail.com	Mise en place de test in vitro pour l'étude de la sensibilité des plasmodies placentaires aux médicaments	2 à 6 mois possibles	M1 ou M2 biologie moléculaire, pharmacologie	15.6.23 ou selon dates académiques	Non pour le moment
CERMES	12	Unité Virologie	Dr Adamou Lagare <adamsyn03@gmail.com>	Mise en place de la détection moléculaire des génotypes de l'hépatite B et delta pour l'étude des fibrose hépatites précoces au Niger	2 à 3 mois	M1 ou M2 biologie moléculaire, virologie	15.6.23 ou selon dates académiques	Non pour le moment
FIOCRUZ Rondônia	13	Cellular Immunology Applied to Healthy Laboratory -	Juliana Pavan Zuliani (zuliani.juliana@gmail.com ; juliana.zuliani@fiocruz.br) On line CV: http://lattes.cnpq.br/9093880214338747	Biotechnological tools for prospecting animal toxins: in silico, in vitro and in vivo. Emphasis: Pro-inflammatory mechanisms induced by toxins and snake venoms -	3 - 4 months	Yes. Doctoral or Master in Biomedical Sciences, Public Health, International Relations or related fields; Working knowledge of English or Portuguese	May	No. We provide accommodation in Brazilian students home.
Fiocruz - Rio	14	Fiocruz-CE	PAULO R. Z. ANTAS (email: paulo.zuquim@fiocruz.br)	In vitro BCG vaccine infection of human nuclear cells	12- months	YES	immediate	NO
Fiocruz Paraná Chagas Institute, Oswaldo Cruz Foundation	15	Laboratory for Applied Science and Technology in Health (LaCTAS) Carlos	Alexandre Dias T. Costa, alexandre.costa@fiocruz.br	Development of qPCR for tropical neglected diseases. The student will design oligonucleotides, perform DNA/RNA extractions from biological samples, optimize qPCR parameters, and perform evaluation and/or validation experiments aiming the development of a new or improved qPCR for tropical neglected diseases.	6-10 months	Graduate or Master's degree in Biology, Chemistry, Bioengineering, Biomedicine (or related areas) and knowledge of Molecular Biology	01/March/23 (negotiable)	Not available

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Oswaldo Cruz Institute - Pernambuco	16	GESB: Grupo de Estudos em Saúde Bucal (Research Group on Oral Health)	Rafael da Silveira Moreira rafael.moreira@fiocr uz.br	Research in public data bank, with execution of statistical analysis in various fields of epidemiology, and not only in oral health, including geoprocessing and multilevel analysis.	3 to 10 months	Knowledge and experience in statistical analysis and epidemiology	2023	No
Fiocruz - Bahia	17	Environmental Health Area, Fiocruz Atlantic Forest Development Program	Ricardo Moratelli Mendonça da Rocha, ricardo.moratelli@fiocruz.br	Biodiversity, Environment and Health The student will have the chance to join wildlife biologists and veterinarians in field and laboratory work to survey hosts (among wildlife and domestic animals) and zoonotic pathogens in the largest urban forest in the world (Parque Estadual da Pedra Branca) and in low income communities adjacent to the forest.	3–10 months	Undergraduate students of Biological Sciences or Veterinary Medicine	2023	Accommodations are available at Centro de Referência Professor Hélio Fraga, about 15 minutes away from Fiocruz Atlantic Forest Campus (https://apgfiocruz.wordpress.com/portfolio/alojamento/helio-fraga)
Fiocruz - Minas	18	Chemistry of Bioactive Natural Products	Tânia Maria de Almeida Alves tania.alves@fiocruz.br	Bioguided chemical fractionation of bioactive plant or fungi extract. The extract will be fractionated at UHPLC-DAD-MS/MS and will be analyzed using the equipment's target analysis mode, to identify the presence of ions corresponding to the substances present in the PN list that occur in that species, according to the bibliographic survey. The effluent will be collected in 96-well plates. The dry fractions will be submitted to bioassays. Crude extract that present data from mass spectra of substances not described in the literature, will be selected for chemical fractionation aiming at the isolation and structural identification of NP.	6 months	Chemist or Pharmacist	any	no

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Fiocruz- Ceará	19	Laboratory for Structural and Computational Proteomics	Tatiana de Arruda Campos Brasil de Souza, tatiana.brasil@fiocruz.br	Investigation on structural behavior of L-asparaginase. For over 40 years, L-asparaginases have been key in the treatment of acute lymphoblastic leukemia. These enzymes act by depleting the plasma's L-asparagine, which is essential to the survival of leukemia cells. In contrast to healthy cells, tumor cells lack the ability to synthesize L-asparagine and thus depend on its external uptake for growth. Currently, three bacterial L-asparaginases are used in therapy, but they are associated with serious side effects related to high toxicity and immunogenicity. Our work aims to study this enzyme to propose new therapeutics	3 months	yes	2023, variable	Not available
Fiocruz Rio	20	Laboratory of Diagnosis, Teaching and Research (ENSP/Fiocruz)	Fabiano de Jesus Santos fjsantos@ensp.fiocruz.br	The importance of evaluation of laboratory performance indicators for the diagnosis of tuberculosis The intern will be trained to perform laboratory techniques for the diagnosis of tuberculosis such as smear microscopy and sputum culture with the objective of isolating mycobacteria followed by the drug sensitivity test in a local mycobacteriology laboratory of a Basic Health Unit. The intern will be guided as to the necessary tools for data collection for research purposes through the creation of spreadsheets and the elaboration of scientific works	6 months	Pharmacy or Biology Intern	05/06/2023	No accommodation available