

APPLY

PPU Pasteur – classic



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#442

PhD Project Title: Everything in its right place: different nuclear substructures for different transcriptional outcomes in the most virulent human malaria parasite

PhD Supervisor: Jessica Bryant

Laboratory Team name: Trypanosome Molecular Biology (Lucy Glover)

#443

PhD Project Title: Resolving in-cell ribosome heterogeneity in the malaria parasite

PhD Supervisor: Sebastian Baumgarten

Laboratory Team name: Parasite RNA Biology

#445

PhD Project Title: Emergency team in action: the role of lysosomal repair in aging and neurodegeneration

PhD Supervisor: Thomas Wollert

Laboratory Team name: Membrane Biochemistry and Transport

#447

PhD Project Title: Evolution of Regulatory Networks in Mycobacterium tuberculosis

PhD Supervisor: Arnaud Firon

Laboratory Team name: Integrated Mycobacterial Pathogenomics (Roland Brosch)

#448

PhD Project Title: Signaling and regulatory networks for host adaptation in Leptospira

PhD Supervisor: Nadia Benaroudj

Laboratory Team name: Biology of Spirochetes (Mathieu Picardeau)

#449

PhD Project Title: SARS-CoV-2-induced mitochondrial dysfunction and metabolic reprogramming in human lung epithelial cells

PhD Supervisor: Jean-Pierre Vartanian

Laboratory Team name: Virus and Cellular Stress

#450

PhD Project Title: Deciphering the Mechanical Role of GFAP in Astrocytes during Brain Aging and Neurodegeneration

PhD Supervisor: Sandrine Etienne-Manneville

Laboratory Team name: Cell Polarity, Migration and Cancer

#454

PhD Project Title: Genetic Regulation of Extracellular Vesicle Diversity in a Human Fungal Pathogen

PhD Supervisor: Guilhem Janbon

Laboratory Team name: RNA Biology of Fungal Pathogens

#455

PhD Project Title: Genomic and functional dynamics of diphtheria: Prophage transmission, iron-dependent toxin regulation, and therapeutic efficacy in the *Corynebacterium diphtheriae* Species Complex

PhD Supervisor: Chiara Crestani

Laboratory Team name: Biodiversity and Epidemiology of Bacterial Pathogens (Sylvain Brisse)

#457

PhD Project Title: Coordination of the injection of virulence factors by the Type III secretion system (T3SS) of *Pseudomonas aeruginosa*

PhD Supervisor: Undine Mechold

Laboratory Team name: Biochemistry of Macromolecular Interactions (Daniel Ladant)

#458

PhD Project Title: Structural investigation of Host-microbe interactions using the Hawaiian bobtail Squid model

PhD Supervisor: Ariane Briegel

Laboratory Team name: Integrative Structural Cell Biology

#463

PhD Project Title: Characterizing Novel Diversity-Generating Retroelements (DGRs) that Shape Microbial Immunity

PhD Supervisor: Christophe Rouillon

Laboratory Team name: Synthetic Biology (David Bikard)

#469

PhD Project Title: Patient-derived antibody repertoires to understand the uprising allergy to sugammadex

PhD Supervisor: Pierre Bruhns

Laboratory Team name: Antibodies in Therapy and Pathology

#470

PhD Project Title: Ancestry and Demographic-Aware Prioritization of drugTargets: Gathering genetic evidence to elucidate drug target potential

PhD Supervisor: Hanna Julienne

Laboratory Team name: Statistical Genetics (Hugues Aschard)

#473

PhD Project Title: Role of auto-immunity in psychiatric disease

PhD Supervisor 1: Uwe Maskos. Laboratory Team name: Integrative Neurobiology of Cholinergic Systems

PhD Supervisor 2: Friederike Jönsson. Laboratory Team name: Antibodies in Therapy and Pathology (Pierre Bruhns)

#477

PhD Project Title: Multi-pathogen Epidemiological Monitoring of Immune Responses and Exposure in the Dielmo and Ndiop Cohort Study

PhD Supervisor: Michael White

Laboratory Team name: Infectious Disease Epidemiology and Analytics

#478

PhD Project Title: Organelle Stress Rewires Neuron-Microglia Communication in Neurodegeneration

PhD Supervisor: Chiara Zurzolo

Laboratory Team name: Membrane Traffic and Pathogenesis

#481

PhD Project Title: Mitochondrial intermembrane stress signaling in a CHCHD10 mouse model of mitochondrial disease

PhD Supervisor: Timothy Wai

Laboratory Team name: Mitochondrial Biology Unit

#483

PhD Project Title: Gex1 Regulation, Interactions and Proteolysis during Leishmania hybridization

PhD Supervisor: Isabelle Louradour

Laboratory Team name: Molecular Parasitology and Signaling (Gerald Spaeth)

#490

PhD Project Title: Exploring the diversity and function of choroid plexus macrophages

Supervisor: Aleksandra Deczkowska

Laboratory Team name: Brain-immune communication

#491

PhD Project Title: Mosaic loss of chromosome Y as a determinant of tuberculosis pathogenesis and immunity

PhD Supervisor: Ludovic Tailleux

Laboratory Team name: Integrated Mycobacterial Pathogenomics (Roland Brosch)

#493

PhD Project Title: Functional genomics of heat tolerance and vectorial capacity in *Aedes aegypti*

PhD Supervisor: Louis Lambrechts

Laboratory Team name: Insect-Virus Interactions

#496

PhD Project Title: Development of mRNA vaccines that target multiple stages of *Plasmodium falciparum* to achieve high efficacy

PhD Supervisor: Chetan Chitnis

Laboratory Team name: Malaria Parasite Biology and Vaccines

#501

PhD Project Title: Sex and Ancestry determinants of Antiviral Immunity and Autoimmune Risk

PhD Supervisor: Darragh Duffy

Laboratory Team name: Translational Immunology

#502

PhD Project Title: Invading the Nucleus: HIV-1 Genome Dynamics and Immune Escape

PhD Supervisor: Francesca Di Nunzio

Laboratory Team name: Advanced Molecular Virology

#505

PhD Project Title: Mechanisms of the influence of intestinal dysbiosis induced by a Western diet on the brain response to nicotine in mice

PhD Supervisor: Morgane Besson

Laboratory Team name: Integrative Neurobiology of Cholinergic Systems (Uwe Maskos)

#508

PhD Project Title: Sex-dependent disruption of emotion-valence circuits maturation in depressive states

PhD Supervisor: Mariana Alonso

Laboratory Team name: Perception & Action (Pierre-Marie Lledo)

#511

PhD Project Title: Uncovering the hidden repertoire of ancestral immune domains

PhD Supervisor: Aude Bernheim

Laboratory Team name: Molecular Diversity of Microbes

#512

PhD Project Title: Decoding endogenous retroelements circuits in age-associated lung fibrosis

PhD Supervisor: Nader Yatim

Laboratory Team name: Myeloid biology in Disease and Aging

#513

PhD Project Title: Understanding the Mechanisms of Chromatin Substrate Recognition by the ATRX-like Remodeler SAD-6

PhD Supervisor: Eugene Gladyshev

Laboratory Team name: Molecular Genetics and Epigenetics

#515

PhD Project Title: GroEL2 beyond the surface: from bacterial release to host interaction and persistence in tuberculosis

PhD Supervisor: Giulia Manina

Laboratory Team name: Microbial Individuality and Infection

#520

PhD Project Title: Genotype-Phenotype Associations Across Cryptic Histoplasma Species

PhD Supervisor: Dea Garcia Hermoso

Laboratory Team name: Invasive Mycoses and Antifungals (Fanny Lanternier)

#526

PhD Project Title: The unique biology and ecology of a human gut methanogenic archaeon

PhD Supervisor: Guillaume Borrel

Laboratory Team name: Evolutionary Biology of the Microbial Cell (Simonetta Gribaldo)

#476

PhD Project Title: Mapping the evolutionary and molecular basis of skeletal muscle diversity

PhD Supervisor: Glenda Comai (team based on the Paris Saclay University campus)

Laboratory Team name: Stem Cells And Development (Shahragim Tajbakhsh)

PPU Pasteur – Research & Technology

These projects are also available to students who have a Master's degree from a French university

#444

PhD Project Title: Visualizing Homologous Recombination one molecule at a time: A structural and functional study of RadA2 Recombinases

PhD Supervisor 1: Ludovic Sauguet. Laboratory Team name: Genome Maintenance

PhD Supervisor 2: Patrick Englang. Core facility: Molecular Biophysics

#461

PhD Project Title: Development of a new and original combination of four histological technologies in multiplex to study extravascular dermal trypanosomes and their interactions with the human host skin

PhD Supervisor 1: Brice Rotureau. Laboratory Team name: Trypanosome Cell Biology (Philippe Bastin)

PhD Supervisor 2: David Hardy. Core facility: HistoPathology Core Facility

#480

PhD Project Title: Developing next-generation mass spectrometry-based proteomics for diagnostics and discovery in inherited mitochondrial diseases

PhD Supervisor 1: Timothy Wai. Laboratory Team name: Mitochondrial Biology

PhD Supervisor 2: Mariette Matondo. Core facility: Mass Spectrometry for Biology

#482

PhD Project Title: Impact on presbycusis of repeated acoustic trauma

PhD Supervisor 1: Boris Gourevitch. Laboratory Team name: Hearing Institute - Plasticity of central auditory circuits

PhD Supervisor 2: Maia Brunstein. Core facility: Hearing Institute Bioimaging

#498

PhD Project Title: Decoding host–pathogen molecular interactions by plant-and-cast cross-linking mass spectrometry

PhD Supervisor 1: Guillaume Dumenil. Laboratory Team name: Pathogenesis of vascular infections

PhD Supervisor 2: Julia Chamot-Rooke. Core facility: Mass spectrometry for biology

PPU Pasteur – Participatory Science

These projects are also available to students who have a Master's degree from a French university

#451

PhD Project Title: Deciphering the detrimental role of neutrophils in leptospirosis

PhD Supervisor: Catherine Werts

Laboratory Team name: Biology and Genetics of Bacterial Cell Wall (Ivo Boneca)

PPU Pasteur – Hearing Institute

#462

PhD Project Title: Restoring hearing and balance through next-generation gene therapy and precision genome editing

PhD Supervisor: Aziz El Amraoui

Laboratory Team name: Progressive Sensory Disorders, Pathophysiology and Therapy

#509

PhD Project Title: Vocal signatures of respiratory infection and anticipatory neuroimmune

PhD Supervisor: Luc Arnal

Laboratory Team name: Auditory Cognition and Communication

PPU Pasteur – Antimicrobial Resistance (in collaboration with Oxford University)

#467

PhD Project Title: Viral ANTigen evolution Across Genomic and Evolutionary scales

PhD Supervisor: Spyros Lytras

Laboratory Team name: Antigen Evolution & Design

#468

PhD Project Title: Modular chemical probes to target the Epitranscriptomics in human diseases: from the design to cellular studies

PhD Supervisor: Paola Arimondo

Laboratory Team name: Epigenetic Chemical Biology

PPU Pasteur – Emerging Infectious Diseases

#484

PhD Project Title: Adaptation of enteroviruses to their host

PhD Supervisor: Maël Bessaud

Laboratory Team name: Virus adaptation & spillover (Nolwenn Jouvenet)

#492

PhD Project Title: Understanding the antigenic diversity of flaviviruses

PhD Supervisor: Henrik Salje

Laboratory Team name: Pathogen Ecology

#506

PhD Project Title: Protein language modelling-informed detection of novel arbovirus emergence threat

PhD Supervisor: Cassandra Koh

Laboratory Team name: Viruses and RNA Interference (Carla Saleh)

#518

PhD Project Title: Imaging SARS-CoV-2 – host cell interaction

PhD Supervisor: Anne Brelot

Laboratory Team name: Dynamics of Host-Pathogen Interactions (Jost Enninga)

#523

PhD Project Title: Entry, Replication and Immune Evasion of Human Seasonal Coronaviruses

PhD Supervisor: Olivier Schwartz

Laboratory Team name: Virus & Immunity

PPU Pasteur – MD-PhD

These projects are also available to students who have a Master's degree from a French university



#453

PhD Project Title: Nuclear shape, chromatin topology and cellular quiescence in adult brain neural stem cells

PhD Supervisor: Laure Bally-Cuif

Laboratory Team name: Zebrafish Neurogenetics

#471

PhD Project Title: Deciphering the Mechanical Role of GFAP in Astrocytes during Brain Aging and Neurodegeneration

PhD Supervisor: Sandrine Etienne-Manneville

Laboratory Team name: Cell Polarity, Migration and Cancer

#503

PhD Project Title: Sex-dependent disruption of emotion-valence circuits maturation in depressive states

PhD Supervisor: Mariana Alonso

Laboratory Team name: Perception & Action (Pierre-Marie Lledo)

#517

PhD Project Title: Aetiology-based versus disease-based screening to reduce advanced liver disease and hepatocellular carcinoma in Africa

PhD Supervisor: Yusuke Shimakawa

Laboratory Team name: Infectious disease epidemiology in vulnerable populations

PPU Pasteur – MD-PhD

Emerging Infectious Diseases



#475

PhD Project Title: Pertussis transmission under incomplete observation: modelling infection across populations and households

PhD Supervisor: Simon Cauchemez

Laboratory Team name: Mathematical Modelling of Infectious Diseases

PPU Imagine

Students will be in a laboratory of the Institut Imagine and will join Pasteur and the PPU for all the educational, social and follow-up activities



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PPU-IMAGINE Classic :

#456

PhD Project Title: Deciphering the TLR9 paradox through the study of monogenic disease

PhD Supervisor: Alice LEPELLEY

Laboratory Team name: Neurogenetics and neuroinflammation

#460

PhD Project Title: Viral Memory in the Human Brain: SARS-CoV-2 Imprinting and Long-Term Neurodegenerative Vulnerability

PhD Supervisor: Michela DELEIDI

Laboratory Team name: Mechanisms and therapy of genetic brain diseases

#479

PhD Project Title: Genetics of autoimmune hepatitis

PhD Supervisor: Aude MAGERUS

Laboratory Team name: Immunogenetics of pediatric autoimmune diseases

#486

PhD Project Title: Targeting ALK+ anaplastic large cell lymphoma: from mechanistic Insights to therapy

PhD Supervisor: Erika BRUNET

Laboratory Team name: Genome Dynamics in Human Diseases

#494

PhD Project Title: Elucidating how fumarate drives mitochondrial vesicle-mediated nucleic acid release and innate immune signalling

PhD Supervisor: Julien PRUDENT

Laboratory Team name: Mitochondrial Dynamics

#497

PhD Project Title: Gene therapy fOr Alpha-thaLassemia

PhD Supervisor: Annarita MICCIO

Laboratory Team name: Chromatin and gene regulation during development

#500

PhD Project Title: An epigenomic ID for improved diagnosis

PhD Supervisor: Maud DE DIEULEVEULT

Laboratory Team name: Pathophysiological basis of skeletal dysplasias

#507

PhD Project Title: Genetic and immunological basis of fulminant viral hepatitis

PhD Supervisor: Emmanuelle JOUANGUY

Laboratory Team name: Human genetics of infectious diseases

#510

PhD Project Title: Docking autoimmunity to the actin cytoskeleton

PhD Supervisor: Frédéric RIEUX-LAUCAT

Laboratory Team name: Immunogenetics of pediatric autoimmune diseases

#514

PhD Project Title: Inversin Compartment functions in kidney cystogenesis and fibro-inflammation

PhD Supervisor: Amandine VIAU

Laboratory Team name: Hereditary Kidney Diseases

#519

PhD Project Title: Development of Patient-Derived Skin Organoids for Disease Modeling and Precision Genome Editing in Junctional and Simplex Epidermolysis Bullosa

PhD Supervisor: Araksya IZMIRYAN

Laboratory Team name: Genetic skin diseases: from disease mechanism to therapy

#524

PhD Project Title: Exploring interferon-mediated lung inflammation at the cellular spatial level

PhD Supervisor: Mickaël Ménager

Laboratory Team name: LabTech Single-Cell@Imagine

#525

PhD Project Title: Dissecting the calcium-mitochondria axis as an SMN-independent determinant of motor neuron vulnerability in spinal muscular atrophy (SMA)

PhD Supervisor: Edor KABASHI

Laboratory Team name: Translational research on neurological diseases

PPU-IMAGINE MD-PhD

#459

PhD Project Title: Deciphering Tooth Eruption Mechanisms Disrupted by FAM20A Mutations in Enamel Renal Syndrome

PhD Supervisor: Nunthawan NOWWAROTE

Laboratory Team name: Pathophysiological basis of skeletal dysplasias

#521

PhD Project Title: Patient-to-therapy: phenotypic drug discovery for personalized treatment of ALS

PhD Supervisor: Sorana CIURA

Laboratory Team name: Translational research on neurological diseases

APPLY

