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Health

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Economy

Lives and Genomes

Interfaces

Digital Technology

Utopia

Guide of research laboratories

université évry val-d'essonne

université PARIS-SACLAY

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FOREWORD

Welcome to the lab!

With 18 laboratories in life sciences, science and technology and humanities, the aim of Université d'Evry Val d'Essonne is to invent, based on top level research, new theories, concepts and applications to enlighten our understanding of the world and to increase our freedom.

This is realized through a coordinated action of our university together with that of national research bodies and of our partners from the territory. In this context, a significant part of our laboratories is among the best ones in the world in their field. But we must go further, by increasing our support to research, by strengthening our attractiveness and by refining the consistency of our organization that we now think as part of our association with the Université Paris-Saclay.

Increasing the attractiveness of the Université d'Evry means freeing up time for research by an optimized administration. It means increasing the quality of equipment of our laboratories, we do so with the help of Region Ile de France, the Essonne department and Genopole. It means bringing more funds for consumable thanks to a rigorous management of our institution. Finally, we are committed to promote valorization of research, and hopefully, our environment allows it. Working onour attractiveness today must be donein line with the rapid evolution of societies and of the world. A new world where mobility is the rule and where the capacity of some organizations may challenge states, we are aware of it.

Thereby, by providing a strong support to the dynamics of our research laboratories we also bring matter to feed high-level training dedicated to academic careers orto fit the jobs of tomorrow. Beyond Evry, our action also answers the broad French national strategy for higher education " STRANES*, for a learning society, where the level of qualification of the population is a key elementto have a good place in globalization and in turn,appears critical for the cohesion of French society ".

*http://cache.media.enseignementsup-recherche.gouv.fr/file/STRANES/12/2/STRANES_entier_bd_461122.pdf

Patrick CURMI
President of University
Evry-Val-d'Essonne

Florence GONNET
1st Vice-President
Research

Frédérique COULÉE
2nd Vice-President
Research

CUTTING EDGE RESEARCH AT A UNIVERSITY OF 25 YEARS OLD

Florence GONNET,
1st Vice-President Research

"What do you want to be when you grow up?"
I want to 'enter' the CNRS to seek out dinosaur skeletons in the desert" answers the 4-year-old girl.

What is more innate than Research?
The need for knowing and understanding is essential to any human community. Without Research, the world we live in would not exist: no eradicated diseases, no interplanetary space travel or satellites to allow communication between people, not enough food to feed all humanity ... The list is long and yet few people imagine the power of Research, its interest and extraordinary applications. How many people know among billions of users, that mobile phones could not exist without Albert Einstein's general relativity theory (1915), which allows the use of GPS (Global Positioning System).

But what is Research?
"Research can be defined as a methodical investigation process in order to improve and expand human knowledge, by discovering, interpreting and understanding facts and theories...". But "serendipity [of discoveries] by accident or sagacity" also exists.

What Research leads to?
"The results of scientific research can be an invention, but very often it is a discovery. A discovery is a new contribution to the whole of recorded knowledge. Paradigmatic for a discovery is the observation and description of previously unknown natural phenomena."

As a Research Institution, our university takes part in these discoveries and in the creation of knowledge, but is also an education institution and thus participates in the dissemination of this knowledge by training young people.

The University of Evry Val d'Essonne, associated with the University Paris-Saclay, is at the heart of a scientific environment which is part of a dynamic notion of excellence, supported by key partners: Genopole, AFM, Genomics Institute... but also reinforced by local authorities such as the city of Evry, the urban community "Grand Paris Sud", the Department of Essonne and the Ile-de-France region.

Many of our laboratories are recognized by great organizations, such as CNRS, INSERM or CEA, and we have very strong connections with the "grandes écoles" of Evry, such as TSP, TEM and ENSIIE. Our Research is structured into three major areas: genomics and post-genomics Sciences, Science and engineering and human and social Sciences, which cover a very broad spectrum of disciplines and scientific fields.

- Research on rare genetic diseases both basic and applied to patient's needs, especially with the CRCT (Clinical and Translational Research Center) allows our university to be the first international leader in the fields of innovative biotherapeutics, genic, cellular and molecular, with world firsts in gene therapy.

- This research, for which we are a "Pole of Excellence", is supported by major contributions from other disciplines such as mathematics, computer science, physics and chemistry.

- Our university also participates in the unprecedented development of systems biology that integrates experimental, theoretical and computational studies to model the functioning of living systems; and synthetic biology that uses systems biology models to design, build and validate new biological circuits inserted in microorganisms. This research builds on our expertise in post-genomics (proteomics, metabolomics, glycomics...).

- In the field of science and engineering, our university is distinguished by its excellence in the field of financial mathematics, and in the modern field of control of autonomous vehicles or virtual or augmented reality.

- Human and social sciences at Evry encompass a broad area that covers public and private law, history of industry and ancient worlds, work and employment sociology as well as urban sociology or economics with particular interest for environmental and socio-demographic financial dynamics and regulations.

- At UEVE, Research benefits from modern technology platforms hosted by our laboratories, certified by Genopole, and open to all researchers, teacher-researchers, post-docs and PhD students, Genopole incubator industrials, and other manufacturers.

- Finally, our university is focused on international expansion with the establishment of privileged partnerships with McGill University (Montreal) who occupies the 64th place in the Shanghai ranking and the «Huazhong University of Science and Technology - HUST» the most famous university of central China.

Thus we reached a certain level of maturity after 25 years of existence, with increased visibility at national and international levels. This dynamic is constantly increasing, thanks to the combination of UEVE to the renewal of IDEX, to more actively participate in the construction of the University Paris-Saclay.

This involves the active participation of researchers, teacher-researchers, engineers and administrative staff of our university, both in structures and joint research projects of the University Paris-Saclay, than in the establishment of new and high-level training offers in Master and PhD, for their organization and for the registration of students, the objective being a graduate of the University Paris-Saclay, awarded by our University.

Our laboratories are therefore key elements of the Evry scientific edifice and represent forefront attractive features; I invite you to discover them in the following pages.

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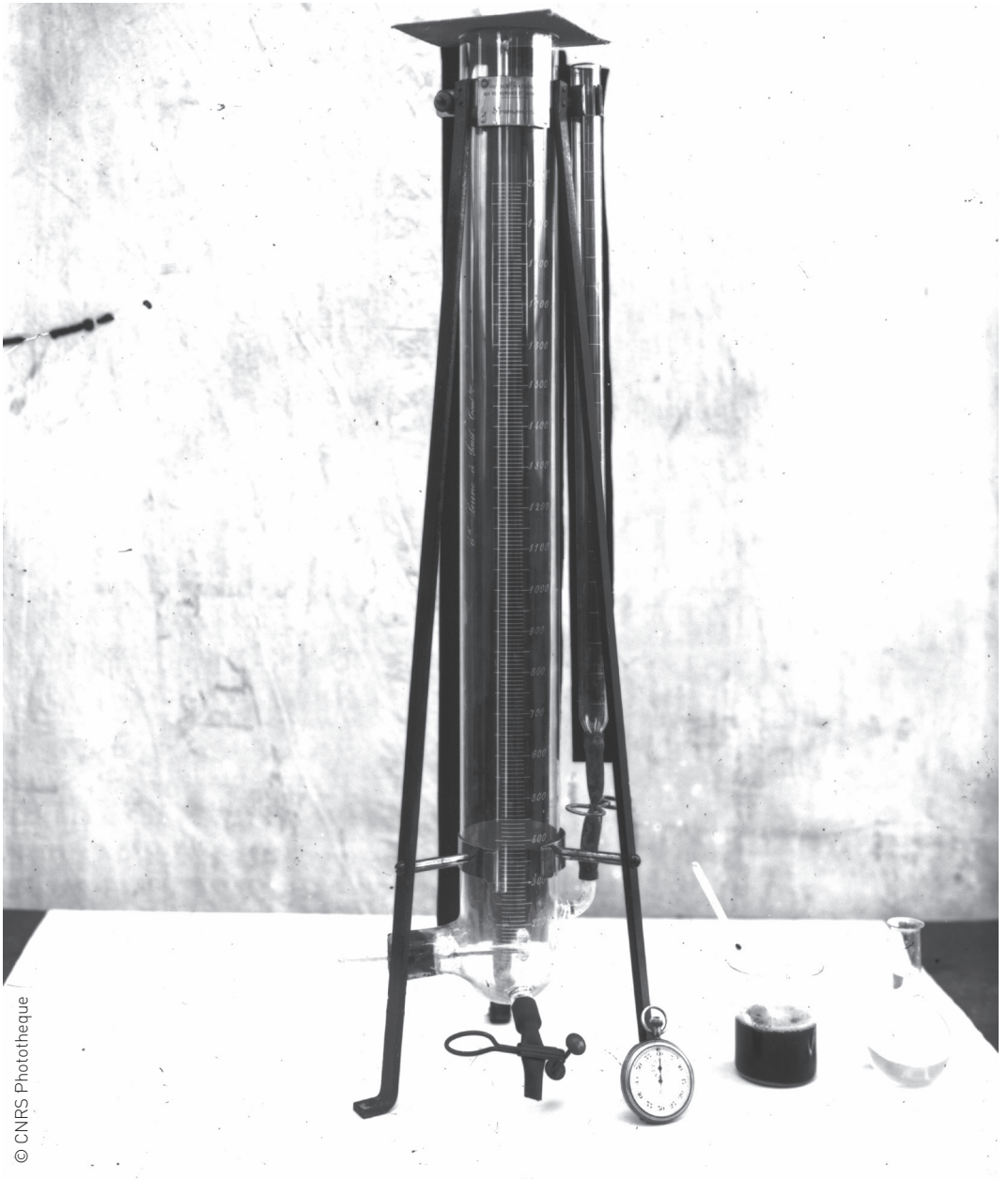
all the informations about
the University of Evry

LIFE SCIENCES



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Caption: Spumometre is a device for dosing the proportion of various chemicals composing the foam in extinguishers. Device photographe at chemistry lab of France's National Office of Scientific and Industrial Research and inventions, Bellevue, Meudon on 31 July 1931. It consists of a 60 mm interior diameter pipe. Its capacity is 2500 cubic cm.

LIFE SCIENCES

METABOLIC GENOMICS - [GM]

INTEGRATED GENETIC APPROACHES IN THERAPEUTIC DISCOVERY FOR RARE DISEASES - [INTEGRARE]

INSTITUTE FOR SYSTEM AND SYNTHETIC BIOLOGY - [iSSB]

INSTITUTE OF STEM CELLS FOR THE TREATMENT AND STUDY OF MONOGENIC DISEASES - [I-STEM]

ANALYSIS AND MODELING LABORATORY FOR BIOLOGY AND ENVIRONMENT - [LAMBE]

EUROPEAN RESEARCH LABORATORY FOR RHEUMATOÏD ARTHRITIS - [GENHOTEL]

STRUCTURE ACTIVITY OF NORMAL AND PATHOLOGICAL BIOMOLECULES - [SABNP]

UNIT OF INTEGRATIVE BIOLOGY OF ADAPTATIONS TO EXERCISE - [UBIAE]

INSTITUTE OF PLANT SCIENCES PARIS SACLAY - [IPS2]

METABOLIC GENOMICS - [GM]

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Structure et Dynamique des Systèmes Vivants
Doctoral School n° 571 - [2MIB]:
Molécules, Matériaux, Instrumentation et Biosystèmes

OVERVIEW OF ACTIVITIES

The Metabolic Genomics Laboratory (UMR 8030) explores organism biodiversity via genome analyses, thus participating significantly in the exploration of life on earth. New sequencing techniques have profoundly changed genomic research by making access to sequencing data commonplace and by extending sequencing knowledge to cover all biodiversity with, in particular, the ability to study metagenomes.This flood of de novo sequencing data has also accelerated growth in the number of identified genes whose purpose is currently a mystery. Genoscope and UMR have thus decided to extend our biodiversity focus to the study of the chemical reactions of living organisms.

RESEARCH THEMES

- Comparative analysis of eukaryotic/procaryotic genomics [plants, animals, protozoa and bacteria] and very large metagenomics and metatranscriptomic data sets, in particular those obtained in the framework of the TARA OCEANS project.
- Annotation and comparative analysis of prokaryotic genomes and prediction and comparison of metabolic networks.
- Study of prokaryote metabolism and its actors, enzymes, to obtain an overview of the chemistry of a cell and contribute to a more "eco-compatible" chemistry.
- Identification of novel enzymatic reactions from bacterial bioconversion based on genomic analysis. Introduction of bio-catalyzed steps in the process of chemical synthesis.
- Development of "chassis" bacteria that could assimilate reduced C1 [ex: methanol] obtained from CO_2, implementation in these "host" bacteria using a synthetic method to produce molecules of interest to industry.
- Search methods for biodegradation of xenobiotics, a case study of chorecedone.

KEYWORDS

Genomics - Prokaryotes - Eukaryotes - Evolving Dynamics - Comparative Genomics Metabolism - Enzymes - Metabolome - Biocatalysis - Chemistry - Biochemistry.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 2 full professors ; 3 associate professors ; 24 researchers ; 10 engineers ; 20 technicians and administrative staff.
- Temporary positions: 1 post-doctoral fellow ; 11 PhD students ; 3 engineers.

INTEGRATED GENETIC APPROACHES IN THERAPEUTIC DISCOVERY FOR RARE DISEASES - [INTEGRARE]

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Doctoral School n° 577 - [SDSV]:
Structure et Dynamique des Systèmes Vivants

OVERVIEW OF ACTIVITIES

The mixed research unit UMR_S 951 INTEGRARE is entirely focused on the topic of gene therapy for rare genetic diseases. Through fundamental and translational research projects, researchers conceive and develop new technologies for gene correction in specific diseases; based on a solid understanding of the biological systems of interest and of the genetic and patho-physiological aspects; with technological expertise.

Areas of interest include blood or immune system diseases, myopathies and metabolic disorders. In these areas, therapeutic gene therapy projects are translated to the clinic with international networks of collaborators and through the therapeutic programs of Genethon.

RESEARCH THEMES

- Gene Therapy for rare genetic diseases:
  - Clinical trial: Wiskott Aldrich Syndrome,
  - Clinical development projects: Chronicle septic granulomatosis, Fanconi anemia, Artemis deficiency.

- Integrative vectors:
  - Epigenetic modifications induced by lentiviral vectors,
  - Study of mechanism of lentiviral vectors entry in target cells,
  - Development of vectors for in vivo use.

- Immune response induced by viral gene therapy:
  - Innate and adaptive immune response against viral components, especially DNA,
  - Control of immune response against transgenes, especially for gene transfer in the muscle,
  - Immune tolerance, immune sanctuary and regulator T lymphocytes.

KEYWORDS

Gene therapy - Immunology
Rare diseases - Immune deficiencies - Blood stem cells.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 2 full professors ; 4 associate professors ; 10 researchers ; 18 technicians and administrative staff.

- Temporary positions: 6 PhD students.

INSTITUTE OF SYSTEMS AND SYNTHETIC BIOLOGY - [iSSB]

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Doctoral School n°577- [SDSV]:
Structure et Dynamique des Systèmes Vivants

OVERVIEW OF ACTIVITIES

The iSSB common project is to design, build and characterize new genetic circuits that are then inserted in bacteria to understand and control the genetic regulation.

Its future field of application is health, in particular the time-controlled synthesis of therapeutic molecules via re-programmed biological systems. iSSB research combines theoretical, computational and experimental approaches.

RESEARCH THEMES

- Approaches to retrosynthesis with the chemistry-biology interface, applied to the rational production of molecules and smart therapeutics by metabolic engineering.

- Design and synthesis of regulator devices of gene expression at the level of transcription and translation; development of a microfluidic platform for an in vivo validation of the synthetic regulation circuits introduced in bacteria.

- Study of the architecture of genomes and of its impact on the regulation of gene expression. A better knowledge of the functional organization of genomes is necessary for the rational introduction of synthetic gene circuits in micro-organisms.

- Creation of tools to synthesize and replicate artificial nucleic acids (XNA) that do not interfere with natural systems. The aim is to create microorganisms usable for industry, with no spreading of genetic information to natural species nor reception from these.

KEYWORDS

Synthetic biology - Systems biology - Modeling - Metabolic engineering - Genomes organization - Biological Networks Bioinformatics - Xenobiology.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 1 full professors ; 4 associate professors ; 7 researchers ; 1 research engineer ; 2 administrative staff and technicians.

- Temporary positions: 10 post-doctoral fellows ; 11 PhD students ; 4 engineers technicians administrative staff ; 1 administrative director ; 1 research director.

INSTITUTE OF STEM CELL FOR THE TREATMENT AND STUDY OF MONOGENIC DISEASES - [I-STEM]

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Innovation Thérapeutique, du Fondamental à l'Appliqué

OVERVIEW OF ACTIVITIES

The laboratory was created to evaluate the therapeutic potentials of pluripotent stem cells in monogenic diseases. The laboratory more particularly examines on one hand, substitutive cellular therapies in the case of degenerative diseases and, on the other hand, the use of stem stem cell lines bearing pathological mutations as targets for the screening of potential therapeutic compounds.

RESEARCH THEMES

- Neurodegenerative diseases: cellular therapies, modeling of Huntington's disease.
- Muscle disease: exploration of the potential of hES and iPS cells for the discovery of new therapies.
- Motor neuron diseases: molecular and cellular mechanisms that are involved in the development of diseases that affect the motor neuron, such as Steinert's myotonia.
- Retinopathy and neural development diseases: cellular therapy, modeling of pathologies.
- Genodermatoses: cellular therapy, modeling of pathologies.
- Human embryo stem cells biotechnologies: mass cell production, genetic engineering and high throughput screening.
- HTS (High Throughput Screening): high throughput screening compares the impact of several hundred of thousands of molecules on cells that constitute pertinent pathological mode.
- Functional genomics: development of technological tools dedicated to the study of monogenic diseases.

KEYWORDS

Pluripotent Stem Cells -
Therapy Monogenic diseases.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 3 research directors ; 1 full professor ; 2 associate professors ; 7 researchers ; 9 engineers and 1 technician.
- Temporary positions: 6 post-doctoral fellows ; 6 PhD students.

ANALYSIS AND MODELING LABORATORY FOR BIOLOGY AND ENVIRONMENT - [LAMBE]

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Doctoral School n°577:
Structure et Dynamique des Systèmes Vivants - [SDSV]
Doctoral School n°571 - [2MIB]:
Molécules, Matériaux, Instrumentation et Biosystèmes

OVERVIEW OF ACTIVITIES

The LAMBE activities focus on the development of experimental and theoretical methodologies for analytical chemistry and molecular modeling in two fields of interest: Biology and the Environment.

RESEARCH THEMES

- Team 1: *Structure and molecular reactivity of biomolecules:* organometallic and macromolecular complexes. Development of methods and analytical tools for characterization of biomolecules assemblies, macromolecular and organometallic complexes by mass spectro-metry (MS). Fields of interest: metal ions/biomolecules interactions, biomolecules' thermochemistry, proteomics, glycomics and complexomics.

- Team 2: *Complex molecular assembly interaction:* Theory and modelling: Multiscale molecular dynamics simulations: ab initio, classical, combined QM/MM, coarse grains, including the development of force fields. Development and applications of methods. Systems of interest: molecules and clusters in the gas phase, condensed matter, liquid phase, interfaces between solids and liquids, nano-droplets, biomolecules and their recognition.

- Team 3: *Reactivity at interfaces in the environment:* Study of the back-end nuclear cycle by modelling various interactions of radioelements that are sensitive to redox with metallic surfaces, natural or synthetic materials and minerals. Functionalization of surfaces for environmental applications, modelling of metallic corrosion. Electro-chemistry, detection of pollutants.

- Team 4: *Polymer materials to interfaces:*
  - Nanopores field: Protein, polymeric and solid-state nanosensors, macromolecule analysis, DNA unzipping. Dynamics of nanoparticles, bio-molecules and protein folding at single molecule level.
  - Biomaterials field: polymers for industry and gene therapy, biophysics of cell invasion.

KEYWORDS

Mass spectrometry - Modelling and simulation - Electrochemistry - Surface functionalization - Corrosion - Electrochemical sensors Macromolecular and supramolecular synthesis of biobased materials - Trans-membrane transport - Natural and synthetic nano pores - Gene therapy.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 7 full professors ; 20 associate professors ; 26 researchers; 4,5 engineers ; 1 technician and administrative staff.

- Temporary positions: 3 post-doctoral fellows ; 18 PhD students.

EUROPEAN RESEARCH LABORATORY FOR RHEUMATOID ARTHRITIS - [GenHotel]

EA 4523
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Doctoral School n°577 - [SDSV]: Structure et Dynamique des Systèmes Vivants

OVERVIEW OF ACTIVITIES

Multifactorial determination of the origin rheumatoid arthritis thanks to the participation of affected families to study the genetic and environmental factors, so as to open new avenues towards a definitive treatment, prevention and research on other diseases of major importance to public health.

RESEARCH THEMES

- Analysis of the genetic component of rheumatoid arthritis: Rheumatoid arthritis is a disabling chronic inflammatory disease. It is also the most common autoimmune disease with a multifactorial etiology. A significant part of the genetic component of this disease is yet to be discovered. In this context, our work aims at identifying genomic variants, the number of copies and gene expressions in family samples via different genetic approaches. This work implies a close and concerted collaboration with hospital practioners (CHU Clermont-Ferrand, CHSF, Hôpital Lariboisière AP-HP), with high-throughput genomics laboratories (CNG, IG CEA, Evry).
- Analysis of interactions between risk factors: The study of the different combinations of clinical, genomic and environmental data is an essential step in the identification of interactions between different risk factors for rheumatoid arthritis. This study is also done in collaboration with the Statistics and Genome team [LaMME, UMR 8071 UEVE / CNRS / ENSIIE]. The development of these analytical methods of multifactorial diseases is applicable to other similar pathologies.

KEYWORDS

Human genetics - Multifactorial diseases - Genomic variation - Statistical genetics.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 2 full professors ; 2 associate professors.
- Temporary positions: 1 PhD student ; 3 hospital practicioners.

STRUCTURE ACTIVITY OF NORMAL AND PATHOLOGICAL BIOMOLECULES - [SABNP]

UMR-S 1204
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Doctoral School n°577 - [SDSV]:
Structure et Dynamique des Systèmes Vivants

OVERVIEW OF ACTIVITIES

Founded in 2007, the SABNP laboratory aims at understanding the structural and molecular basis of the function of proteins which alterations are pathogenic to humans.

The main research theme concerns the structure and dynamics of RNA: protein complexes, cytoskeleton and regulatory proteins that are involved in human diseases. Other researches aim at developing new technologies to explore molecular and cellular processes understanding mechanisms of protein-nucleic acid interaction in vitro and in cell culture. Finally, we fabricate fluorescent diamond nanoparticles for permanent labelling in life and material sciences.

RESEARCH THEMES

- Structural Biology,
- Molecular and Cellular Biophysics,
- Cytoskeletal Dynamics,
- Neurobiology and cytoskeleton,
- Atomic Force Microscopy,
- Nanotechnology / Fluorescent Nanodiamonds,
- RNA-binding proteins,
- Translation regulation,
- Biological method.

KEYWORDS

Structural biology - Cytoskeleton Tubulin - NMR - Molecular modelling and dynamics - Pathogenic mutations - Cancer - Nervous system - Drug design Diamond nanoparticles.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 2 professors emeritus ; 1 professor ; 3 associate professors ; 3 researchers ; 4 engineers and 2 technicians et administrative staff.

- Temporary positions: 2 post-doctoral fellows ; 6 PhD students.

UNIT OF INTEGRATIVE BIOLOGY OF ADAPTATIONS TO EXERCISE - [UBIAE]

EA 7362
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Doctoral School n°577 - [SDSV]:
Structure et Dynamique des Systèmes Vivants

OVERVIEW OF ACTIVITIES

The aim of the UBIAE is to define the factors that limit the maximum cardiac and muscular oxygen uptake using a physiological and molecular approach and animal human models. The maximum oxygen uptake (VO2max) seems to be one of the factors that predict mortality and morbidity, and its improvement could increase the everyday living comfort and athletic and endurance performances as well. Measurements show that maximum oxygen uptake can be reached either in sport situations that need high-power development (sprint) or during trials such as marathon or even during city movements. The laboratory is working in collaboration with Hospitals on cardiac response to exercise according to pathologies.

RESEARCH THEMES

The main aim is to examine the possibility to increase the maximum oxygen uptake by developing exercise protocols with a variable power in different time scales and predefined or stochastic spaces. The modeling of the features of the exercise power variation in time, and associated biological factors, is made in collaboration with Ecole Polytechnique, the Mines-Telecom Institute and the ENSIIE. In the short and medium-term, metabolomics, cellular and molecular transformations of skeletal and cardiac muscles are studied with classical or innovative parameters such as the microRNA monitoring. The regulatory function of these microRNA could contribute to links between mitochondria and nucleus, and help with the synchronization of vital functions such as the production of energy or even apoptosis.

Researches aim to understand the mechanisms of the possible stimulus effects of exercise on mitochondrial biogenesis and, conversely, of deleterious effects of animal myopathies (recurrent rhabdomyolysis during exercise, glycogen in horses; muscular dystrophy in mdx mice). This transdisciplinary and translational approach will define the new conditions of human locomotion in space and time.

KEYWORDS

Exercise - Physiology - Metabolism - Performance - Health.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 2 full professors ; 5 associate professors ; 1 researcher.
- Temporary positions: 1 post-doctoral fellow ; 5 PhD students.

INSTITUT DES PLANTES DE PARIS SACLAY - [IPS2]

UMR 9213
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Doctoral School n°577 - [SDSV]:
Structure et Dynamique des Systèmes Vivants

OVERVIEW OF ACTIVITIES

IPS2 is specialized in plant sciences. A large number of research projects are designed to identify and predict, on model and crop plants, the molecular and physiological mechanisms involved in plant responses to environmental changes (drought, temperature, CO2 etc.) and attacks by pathogens (bacteria, viruses and fungi). A major objective of IPS2 is to develop new approaches to identify key genes to improve plant fitness and yield for a sustainable agriculture.

RESEARCH THEMES

- Development: Regulatory non-coding RNAs and root plasticity - Cell cycle, chromatin and development - Signalling pathways controlling legume root development - Flower and carpel development.

- Physiology and signalling: Oxidative stress, redox signalling and chromatin - Stress signalling and protein kinase cascades - Regulation, signalling and metabolic interactions.

- Biotic interactions: Functional genomics of cereal-pathogen interactions - Genome dynamics and pathogen resistance - Genetic control of symbiosis - Organelle gene expression - Genomic networks.

- Facilities:
  - Translational biology: Bridging the gap between structural and functional genomics in crop plants by developing two complementary reverse genetics tools, TILLING and ECOTILLING.
  - Metabolomics: Offers an expertise to develop protocols and to carry out measurements and analyses of plant metabolites using a combination of isotopic and metabolomics techniques.
  - Transcriptomics: Offers an expertise to develop the analysis of the transcriptome of model and non-model plants using RNA-seq and microarrays.
  - Protein-protein interactions: Offers high through-put analyses using an automated y east double-hybrid system.

KEYWORDS

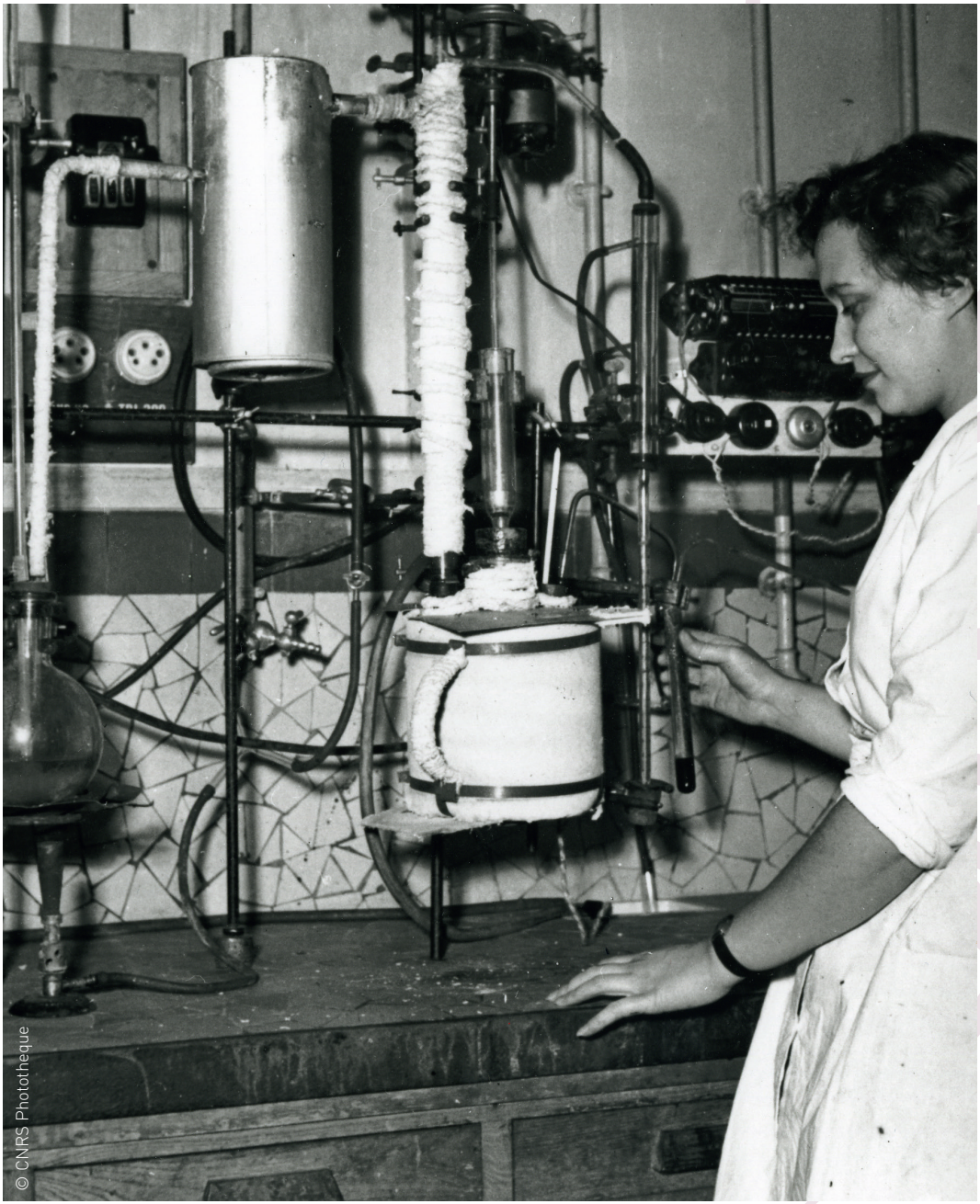
Functional genomics - Metabolomics - Translational biology Adaptation to environmental changes - Development - Plant physiology - Plant-microbe interactions.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 6 full professors; 18 associate professors; 18 researchers; 18 engineers and 36 technicians and administrative staff.

- Temporary positions: 8 post-doctoral researchers; 30 PhD students; 31 fixed-term contracts.

FORMAL SCIENCES



Caption: Reproduction on a glass plate on 25 February 1958, of a photograph representing the manipulation of a device, at paints and varnishes lab. France's National Research Center [CNRS].

FORMAL SCIENCES

COMPUTER SCIENCE, INTEGRATIVE BIOLOGY
AND COMPLEX SYSTEMS - [IBISC]

LABORATORY FOR MATHEMATICS
AND MODELLING OF EVRY - [LAMME]

THE EVRY MECHANICS
AND ENERGETICS LABORATORY - [LMEE]

COMPUTER SCIENCE, INTEGRATIVE BIOLOGY AND COMPLEX SYSTEMS - [IBISC]

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Doctoral School n°580 - [STIC]:
Sciences et Technologies de l'information et de la Communication
Doctoral School n°579 - [SMEMAG]:
Sciences Mécaniques et Energétiques Matériaux et Géosciences

OVERVIEW OF ACTIVITIES

IBISC is a multidisciplinary laboratory involved in all aspects of information communications technology (ICT) including computer science (Automatic, mechanics and biology). Research aims at the development of computation tools to model, identify, simulate, design and validate complex systems, both natural and artificial, in the following areas: biology, surrounding assistance to people, and independent or cooperative terrestrial and aerial systems.

RESEARCH THEMES

- Biocomputing and biological systems: combining computer science and biology, the laboratory develops a wide range of skills for Biocomputing and especially the study of biological systems called biological networks.

- Assistive technology, signals and images processing: involving wide expertise in control, mechanical engineering, robotics, virtual and augmented reality, the laboratory designs, prototypes and assesses assistance-to-people systems in their domestic or professional environment.

- Intelligent autonomous systems: putting together in synergy the skills in modeling, perception, optimization and control, the laboratory develops systems that include ground vehicles, flying vehicles or a heterogeneous package of dozens of programmable or dedicated processors.

- Open and safe systems: this concerns the controlled design of open critical systems, i.e. able to respond with appropriate behavior to all sorts of changes, scheduled or unforeseen, of the environment.

KEYWORDS

Biocomputing - Analysis - Formal methods - Verification - Machine Learning - Control theory - Modelling - Identification and simulation - Operational research - Intelligent Transportation Systems - Biomedical and health - Ambient Robotics - Multimodal human - system interaction Cloud computing.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 19 full professors ; 2 professeurs émérites ; 33 associate professors and 1 assistant professor ; 2 engineers and 1.5 technician and administrative staff.

- Temporary positions: 57 PhD students.

LABORATORY FOR MATHEMATICS AND MODELLING OF EVRY - [LAMME]

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Doctoral School n° 574 - [EDMH]:
Doctoral School de Mathématiques Hadamard
Doctoral School N° 577 - [SDSV]:
Structure et Dynamique des Systèmes Vivants

OVERVIEW OF ACTIVITIES

The laboratory conducts research in analysis, probability and statistics, with applications to finance, genomic and life sciences.

RESEARCH THEMES

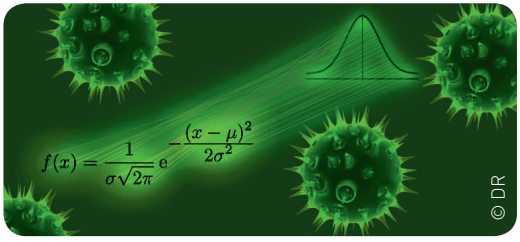
- Non-linear partial differential equations:
  - Fluid mechanics (Navier-Stokes, Euler, quasi-geostrophic),
  - Dispersive equations (waves, Schrödinger),
  - Biomathematics (chemotaxis, dynamic systems),
  - Functional analysis (Besov space, Morrey space...).
- Probability and Financial Mathematics:
  - Credit risk, assessment and covering of derivatives, multicredit products, risk measures,
  - Numerical and statistical methods for finance.
- Stochastic differential equations, stochastic partial differential equations:
  - Statistics and Genomics,
  - Multiple testing, model selection,
  - High dimensional statistics, Statisical learning,
  - Statistical genetics,
  - Models for sequence evolution, duplicated genes.

KEYWORDS

Probability - Statistics - Analysis of partial differential equation - Genetics - Mathematical finance - Biomathematics.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 8 full professors ; 1 professor emeritus ; 27 associate professors ; 2 lecturers, 1 researcher ; 5 technicians and administrative staff.
- Temporary positions: 1 adjunct professor ; 14 PhD students ; 1 lecturer.



THE EVRY MECHANICS AND ENERGETICS LABORATORY - [LMEE]

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Sciences Mécaniques et Energétiques Matériaux et Géosciences

OVERVIEW OF ACTIVITIES

LMEE research is focused on Mechanics and Thermal energy with the objective to understand physical problems linked to these disciplines and to develop innovative numerical methods and efficient softwares in order to create and optimize mechanic and thermal systems in the fields of aeronautics, transportation, energy, biomechanics and civil engineering.

RESEARCH THEMES

The laboratory is composed of three main teams:

- Dynamic modelling of the structures:
  - This team's activities are based on the numerical modelization in mechanics, linear or nonlinear, statistic or dynamic. Examples: the verification of the mechanisms of structures, the analysis of the behavior of structures and materials (hyper elasticity, plasticity, large deformation, contact, impact, meta-physics), conception and optimization of structures, parallel computing, development of software for simulation and visualization.

- Thermal and energetics studies:
  - This team conducts research in the field of model reduction in heat. The applications are the identification, inverse problems and control of industrial processes in real time.

- Fluid Mechanics and the Environment:
  - This team works on problems of compressible or uncompressible fluid mechanics and the environment. The main problems are the flow in supersonic nozzles, the problems of transportation and distribution, atmospheric dispersion of pollutants and identification of sources of pollutants.

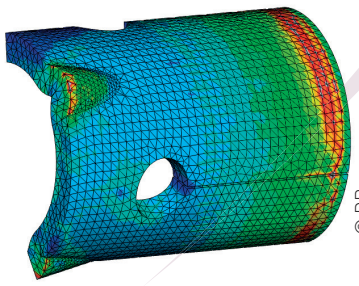
KEYWORDS

Mechanics of solids and fluids
numerical modeling - CFD - Thermal - Energetic - Atmospheric dispersion.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 5 full professors ; 12 associate professors ; 2 professors, researchers and others ; ½ research engineer ; ½ administrative staff.

- Temporary positions: 7 PhD students.



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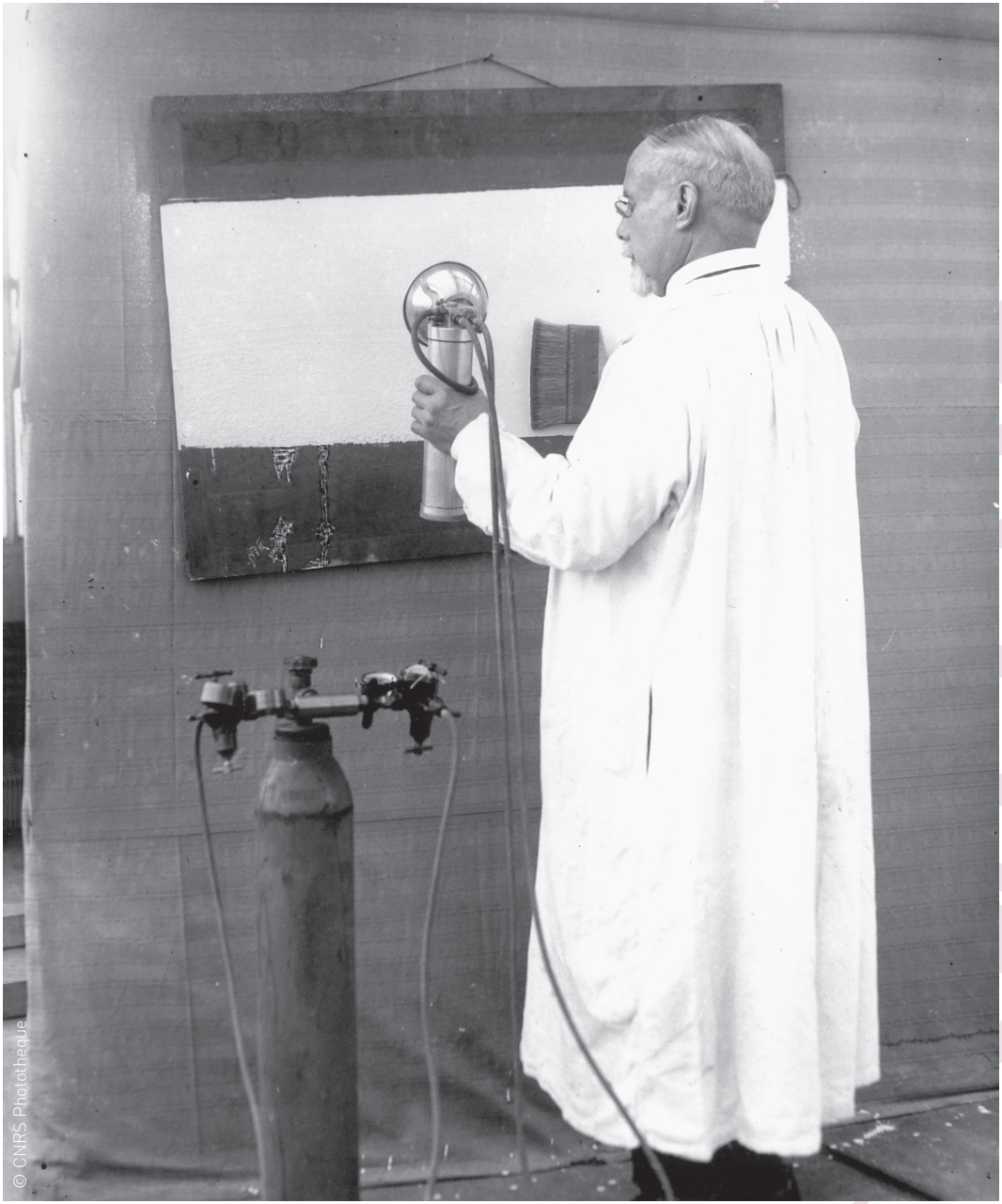

Press for the rubber vulcanization, at France's National Office of Scientific and Industrial Research and inventions, Bellevue, Meudon on 26 May 1937. The vulcanization is a chemical process consisting in incorporate a vulcanizing agent to a crude elastomer to make it, after curing, less plastic and more elastic.

HUMANITIES

CENTER OF ECONOMIC POLICY STUDIES - [EPEE]

PIERRE NAVILLE CENTER - [CPN]

LÉON DUGUIT RESEARCH CENTER - [CRLD]

ECONOMICS AND SOCIAL HISTORICAL INSTITUTIONS AND DYNAMICS - [IDHE.S - EVRY]

SYNERGY LANGUAGES ARTS MUSIC - [SLAM]

LABORATORY FOR INNOVATION, TECHNOLOGY, ECONOMICS AND MANAGEMENT - [LITEM]

CENTER OF ECONOMIC POLICY STUDIES - [EPEE]

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Sciences de l'Homme et de la Société

OVERVIEW OF ACTIVITIES

The Center of Economic Policy Studies located at Evry University moved to focus on international visibility and is strategic partner of a Labex (Laboratory of Excellence and an ANR (the French National Research Agency). Its research activity is divided into two areas: mathematical economics (general equilibrium, finance) and the evaluation of public policies (labour market, economic policy).

RESEARCH THEMES

- Mathematical economics: EPEE is part of the MME-DII Labex (Economic and mathematical models of dynamics, uncertainty and interactions). Mathematical Economy at EPEE is divided into two sub-themes: the dynamics of general equilibrium and finance. As far as general equilibrium is concerned, particular attention is paid to the effects of market imperfections and the role of economic policies (monetary and fiscal). The problems of existence, multiplicity, stability and optimality of equilibrium are applied to monetary and financial issues (self-fulfilling prophecies and rational bubbles) or environmental (pollution). The second subtheme concerns Financial Markets (liquidity risk hedging and corporate finance (issue of long-term funding). However these subthemes are not mutually exclusive. Today, theorists are encouraged to think about the micro-macro effects of financial crises on the real economy. The relationships between the financial and real spheres naturally falls within the approach of general equilibrium: EPEE members include recognized experts in general equilibrium of monetary and financial macroeconomics.

- Evaluation of public policies: EPEE is member of the CNRS research federation "Labor Employment and Public Policies". The evaluation of public policies on data from controlled experiments is a traditional research field. This research focuses not only on the evaluation of Labour Market Policies and the measurement of discrimination in hiring process, but also on the assessment of monetary, fiscal and environmental policies. Thus, this a more applied research than the first theme, but partly complementary.

KEYWORDS

Dynamic general equilibrium - Finance - Evaluation of public policies.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 7 full professors ; 10 associate professors ; ½ administrative staff.

- Temporary positions: 1 associate professor ; 2 associate professors of secondary education ; 3 part-time associate professors ; 1 post-doctoral fellow ; 8 PhD students.

PIERRE NAVILLE CENTER - [CPN]

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OVERVIEW OF ACTIVITIES

The research tradition of CPN has been developed in two main fields: work, training and employment; urban public policy. The work of the Pierre Naville Center focuses on each of the two fields but also and more importantly on their cross-fertilization. Actually, the research interests of the laboratory concern Work and Territories.

RESEARCH THEMES

Research at the CPN is organized around four themes:

- Labour, organization and company: social relations and changing of work in services; european comparison of sociologies of work; contemporary types of domination at work; work and innovation; project-based management and health at work; business management modes.

- Links between training and employment: representation of employment in time crisis; flexibility of employment and people's security; experience of precariousness; individual strategies and solidarity of the working communities; crisis values and norms / values and norms in crisis.

- City and public policy: participatory democracy; centralization and location; reflexivity residents about housing, inhabited, relation to the territory and urban policies.

- Visual and filmic sociology: analysis of the place of the rsearch field and social facts in filmic Sociology; reflexivity of "actors" and sociologist filmmakers; analysis of the status of the video interview; fiction and documentary.

KEYWORDS

Work - Organizations - Scientific work - Employment - Vocational training - Public policies Urban spaces - Visual and filmic sociology.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 5 full professors ; 11 associate professors ; 10 teachers, researchers and others; 2 engineers ; 1,5 administrative staff.

- Temporary positions: 28 PhD students.


Photo courtesy: UEVE/CPN

LÉON DUGUIT RESEARCH CENTER - [CRLD]

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Sciences de l'Homme et de la Société

OVERVIEW OF ACTIVITIES

The Léon Duguit Research Center for New Law Studies changes brings together lawyers, whether they are Public or Private Defender, as well as political scientists from the University of Evry. Their research is primarily expressed through the organization of seminars on topical issues [Constitutional identity, Representation and representativeness] or related to courses proposed here [Human Rights and Investment Law]. The Center offers conferences: a panel discussion with an Algerian Professor to discuss the Human Rights Protection in Muslim Area, a Brasilian Professor about free-trade agreements.

RESEARCH THEMES

- Financing Law: new forms of financing (trust-law, new credit agreements...); new guarantees (guarantees on insurance, mortgages, trust by way of security...).

- Law and Biotechnology: medical law, intellectual property, bioethics, ethics (medically-assisted procreation, human cloning, and rights for end of life patients ...).

- Human Rights and humanitarian law: fundamental rights, protection European and international protection of Human Rights, protection of Civilians in armed conflicts, international penal justice, rights of refugees.

- Territorial government authorities Law and Economic Public Law: contracts of local authorities, urbanism, financing of public activity, competition and regulation.

- Public and Private Litigation, change of judgement methods: evolution of judges and judicial function (constitutional, administrative, judicial, international, referee judges), overhaul of methods (priority preliminary rulings on constitutionality, alternative dispute resolution).

KEYWORDS

Public Law - Private Law -
Political science - Legal disputes.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 7 full professors; 12 associate professors; 10 teachers, researchers and others; 1 technician or administrative staff.

- Temporary positions: 15 PhD students.

ECONOMICS AND SOCIAL HISTORICAL INSTITUTIONS AND DYNAMICS - [IDHE.S - EVRY]

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Doctoral School n°578 - [SHS]:
Sciences de l'Homme et de la Société

OVERVIEW OF ACTIVITIES

The IDHES-Evry Laboratory is a division of IDHE.S [UMR 8533. CNRS], in partnership with the universities of Paris 1 Sorbonne, Paris 8, Paris-Ouest Nanterre La Défense, and with the Ecole Normale Supérieure[ENS] of Cachan.

Its mission is to organize, produce and promote all sorts of historical researches in the field of economic, societyand technology and in the medieval, modern and contemporary periods.

RESEARCH THEMES

- Firms and (wo)men: This theme relates to different categories of stakeholders: owners and managers, managers and subordinates, engineers and workers.
- Companies and strategies: Are taken into account the technical and industrial corporate and social strategies.
- Companies and Territories: This research topic focuses on the various territories on which organizationsand groups of people grow and evolve.
- Heritage and 3D reconstruction: The IDHES-Evry specializes in the 3D modelization of remarkable workplaces from medieval, modern and contemporary times. Digital reality (models, reconstructions, virtual, videos, etc.) is an investigation tool to better document the history of past activities and heritage. Learn more about our approach and resultson: http://www.usines3d.fr/. These research topicsare coherent with the four research themes developed byour UMR: Products, businesses, labor, work and industrial relations; Knowledge, skills and innovations; Capital, finance, debt and credit between public and private;Public action and common property.

KEYWORDS

History - Business - Entrepreneurship - Strategies - Territories 3D modelling.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 3 full professors; 4 associate professors; 2 associates professors of secondary education; 1 teachers researchers and other ; 1 research engineer ; 1 administrative staff.
- Temporary positions: 9 PhD Students.

crédit: UEVE/LHEST

SYNERGY LANGUAGES ARTS MUSIC - [SLAM]

EA 4524
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Doctoral School N° 578 - [SHS]:
Sciences de l'Homme et de la Société

OVERVIEW OF ACTIVITIES

The SLAM lab was born from the fusion of the RASM Lab and the SCRIPT Program in order to take into account the evolution of our two departments: Arts & Music, on the one hand, and Languages, on the other. We intend to design Research projects dedicated to Languages Arts & Music. SLAM means Synergies Languages Arts Music.

RESEARCH THEMES

The SLAM lab revolves around three axis:

- Screenwriters, Creators, Directors, Interpreters, Performers Translators: isgeared towards training researchersin fields related to language and image studies. SCRIPT's aim is to build the archives ofthe future in artistic fields such as theatre, cinema,audiovisual and transmedia under the supervision of Brigitte Gauthier.

- RASM:The Research Arts Performance Music Axis: Artistic Engineering puts into perspective aesthetics, musicology, text studies, sociopolitics and culture management, history, instrumental techniques, interpretation and communication under the supervision of Philippe Gumplowicz.

- MI The members of «Mélanges interculturels»: are interested in the social and political stakes of art and culture from an interdisciplinary and intercultural perspective under the supervision of Damien Ehrhardt, preparing projects wit-hHumboldt College, France and the IDA.

KEYWORDS

Languages - Arts - Society - Theatre - Cinema - Videogames - Translation - Subtitling -Transmedia - Representations - Interpretations - Art - Music - Politics - History - Aesthetics - Ideas and Sensibilities - Culture - Arts - Music - Culture(s) - Interculturality - Franco-German Relations - Cultural Areas - Territories - Governance - Interdisciplinarity.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 2 Full Professors ; 2 University Professors Emeritus ; 11 Associate Professors ; 4 professors researchs and others ; 1 PAST ; 1 engineer.

- Temporary positions: 1 Post-doctotal ; 22 PhD students ; 2 fixed-term contracts.

LABORATORY FOR INNOVATION, TECHNOLOGY, ECONOMICS AND MANAGEMENT - [LITEM]

EA 7363
Institution: U-Evry
Acting director: Madeleine BESSON, Full Professor
Associate director Evry: Eric PAGET-BLANC, Full Professor
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Website: http://www.litem-lab.eu/fr/fr/presentation/
Doctoral School n° 578 - [SHS]:
Sciences de l'Homme et de la Société

OVERVIEW OF ACTIVITIES

LITEM [Laboratory Innovation, Technology, Economy and Management] is coordinated by University of Evry-Val d'Essonne, Telecom Business School and Grenoble Business School.

LITEM has the objective to understand the new economic and managerial models adapted to technological innovation.

RESEARCH THEMES

Main directions of research:

- Innovation, Technology, Entrepreneurship,
- Information and Transformation,
- New forms and structures of organisation,
- Marketing and social networks,
- Finance.

KEYWORDS

Management - Innovation - Technology.

PRESENT STAFF IN THE LABORATORY

- Permanent positions: 38 full professors ; 88 associate professors. 7 teachers, researchers and others ; 1 administrative staff.
- Temporary positions: 38 PhD students.

crédit: libre de droit

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NOTE