Founded in 1350 by King Peter IV of Arago, the University of Perpignan Via Domitia is a medium sized, multidisciplinary and dynamic campus.

Every year, some 9500 students follow courses in a broad range of areas including literature, languages, humanities and social sciences, law, economics, management, sciences, sport and tourism.

UPVD is known as a university with high international visibility. By its participation in numerous European & multilateral projects, it had acquired a real know-how in implementation and management of international cooperations, capacity building projects and exchange of best practices.

UPVD has been recognized for its excellence in the fields of renewable energy and humanities by the Erasmus Mundus Label and the French Ministry awards.

The offer of study programmes is supported by a dynamic and internationally involved research based on the association of our 16 laboratories.
Facts & Figures

Students
9500 students
21% of overseas students
120 nationalities
130 courses

Alumni
3500 graduates/year
130 diplomas
85% professional recruitment rate over a 18-months period

Staff
900 employees
450 teachers and professors
450 administrative and technical employees

16 research units
4 major areas of research and learning
3 faculties and 3 institutes
2 doctoral schools
1 engineering school

6 training and research sites: Perpignan, Narbonne, Font Romeu, Mende, Carcassonne, Tautavel, Port-Barcarès

Canigou mountain
**Training & Research**

**Fields of Studies**

**Science, technology, health**
- Natural sciences (biology, life and earth sciences, environmental & marine sciences)
- Chemistry & physics
- Mathematics
- Computer sciences
- Engineering (electronics, energy, automation)
- Sports science and technology (STAPS)

**Law, economy, management**
- Business and administration
- Tourism management, international trade
- Finance, banking & insurance
- Law (business, comparative, environment, property, public)
- Logistics & international transport
- Maritime & port activities management

**Humanities and social sciences**
- Education sciences
- Geography, regional & urban planning
- History, history of art and archaeology
- Sociology & social work
- Musicology
- Catalan & European studies
- Cultural tourism (e-learning Master MIRO)

**Arts, Letters and Languages**
- Applied foreign languages
- Languages, literature & civilisations (English, Spanish, Catalan)
- Letters (French literature)
- French as a foreign & second language
- Mundus Masters ‘Crossways in cultural narratives’

**Areas of Research**

- Renewable energies, associated processes and materials
- Living organisms and ecology
- Dynamics of environment and of anthroposystems
- Theory, complex systems, modelling
- Mediterranean: culture, regions, heritage and markets
- Development aid

**Training Structures**

3 Faculties
- Faculty of Literature and Human Sciences
- Faculty of Exact and Experimental Sciences
- Faculty of Law and Economics

3 Institutes
- University Institute of Technology
- Franco-Catalan Cross-border Institute
- IBA: Institute of Business Administration

2 Doctoral schools
- Energy and Environment (science)
- Inter-Med (humanities & social sciences)

1 Engineer school in renewable energies (Sup’EnR)
The licence-master-doctorate structure

French universities organize their courses over 3, 5 and 8 years, awarding Bachelor (licence, L), Master (M) and Ph.D (doctorat, D).

**BACHELOR (LICENCE)**
In France, students study for the national bachelor diploma over six semesters (awarded after 3 years of post-baccalaureate study).

**MASTER**
After the bachelor, students can continue for a master’s diploma which marks the successful completion of basic or continuing course pathways. Students study for it over four semesters.

**DOCTORATE**
All students who have obtained Master’s degrees can apply for a doctoral thesis – whether they have a Master’s diploma, an engineering qualification or a diploma from an advanced business school that is equivalent to a Master’s degree. As a general rule, it takes three years to study for a doctorate.
16 state-approved research units
1 development aid research federation
2 graduate school sites
450 researchers and teacher-researchers
90 engineers, technicians and laboratory staff
350 PhD students
7 laboratories of excellence (LABEX)
1 equipment of excellence (EQUIPEX)
5 research & technology transfer platform
360 scientific publications per year
1 business incubator for innovative start-ups

UPVD business incubator
**INTERNATIONAL**

+100 international inter-university agreements
179 Erasmus + bilateral agreements with 16 European countries
1 University Centre for French Studies (CUEF)

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**3 Double degrees**

- Master in Humanities with University of Balearic Islands (Spain)
- Bachelor in Languages with Autonomous University of Barcelona (Spain)
- Bachelor in Tourism with University of Van Lang (Vietnam)

+50 PhD joint degrees/year
Representing 16% of PhDs

**2 Multinational degrees in renewable energy:**

- EU/China Master ICARE
- European Master EUREC

**1 Erasmus Mundus Masters Programme**

“Crossways in Cultural Narratives”

**Programs:**

- Erasmus+ European Mobility
- Erasmus+ International Credit Mobility
- Erasmus+ Capacity Building
- Erasmus Mundus
- Horizon 2020
- Interreg IV
- BCI (Quebec, Canada)

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**Networks**
RESEARCH
at the University of Perpignan
The University of Perpignan Via Domitia is committed to carrying out research of the highest level.

In 2010, the French government issued calls for proposals within the framework of the «Future Investment Programme». The aim of the programme was to «give research units with international profiles considerable resources so that they could compete on a level playing field with comparable overseas units, attract world-renowned researchers and professors and develop a high-level integrated policy for research, training and development». Following these calls for highly selective proposals, the UPVD’s 16 research units are currently involved in five LABEX (laboratory of excellence) projects, an EQUIPEX (equipment of excellence) project, an IDEFI (innovation training excellence initiative) and two UPVD-CNRS research chair in excellence programmes.

This recognition is a means for us to consolidate the specific aspects of our research according to five cross-category multidisciplinary areas.

The «Perpignan-Odeillo» site has obtained both a Labex and an Equipex project, establishing it as a major international centre in solar energy research. Similarly, the University’s involvement in France’s largest agronomics Labex project has bolstered Perpignan’s reputation in plant genomics.

Since 2012, the University of Perpignan Via Domitia has sought to significantly strengthen its links with a number of major national research organisations, such as the CNRS (French centre for scientific research), Paris National Natural History Museum, the IRD (Institute of Research for Development) and the EPHE (one of France’s most prestigious research and higher education institutions). One of the results of this proactive policy has been the creation of seven laboratories that have links with the CNRS: five joint research units, one service and research unit and one research unit in its own right. Furthermore, the UPVD has collaborated with the IRD on setting up a development aid federation and has been hosting an IRD research team onsite since January 2015.

The UPVD has also structured its research activities at regional, national and European level. This has resulted in nine co-supervision schemes or agreements with laboratories attached to the universities of Montpellier, Paris VI (Pierre and Marie Curie) and Girona.

The UPVD’s équipes d’accueil research teams are also structured in this way, one of which is investigating exercise physiology at altitude.

The various bodies involved in research at the UPVD also get support from the University of Perpignan Via Domitia Foundation to help them interact more effectively with the local socio-economic world. This ensures that the areas of expertise in which its laboratories work can therefore be better tailored to meet the requirements of companies. The Foundation also plays a key role in helping the start-up companies that emerge from our research activities to network, so that they can enjoy the support of member industrial partners. Create a start-up at UPVD is now a reality thanks to the new incubation hotel of innovating companies.
16 research units accredited by the ministry:
5 joint research units, 1 service and research unit, 1 proper research unit, 4 university research teams, 2 co-supervision research teams, 3 teams with partner laboratories
1 development aid research federation
350 researchers, professors, associate and assistant professors on site
84 engineers, technicians and laboratory staff
400 PhD students in 2 doctoral schools
6 laboratories of excellence (LABEX)
1 equipment of excellence (EQUIPEX)
1 innovative Excellence in Training Initiative (IDEFI)
2 UPVD-CNRS research chairs in excellence

From 2010: €3.8 million of research contracts each year
26 european projects et 42 National Research Agency projects
360 international publications per year

An ideal region for a research focused on sustainable development

This one particular area in France has been the scene for experimentation in geography, environment, society and energy for more than 560,000 years, with projects endlessly jostling and intersecting with one another.

Layers of stratified soil discovered in nearby Tautavel show how both the environment and humankind have changed and evolved over the years. The impact that modern human kind has had on the environment can be measured by analysing molecules in water bodies and lagoons. Beneath the extremely generous sunshine of Odeillo and Thémis, the energies of the future are being developed. In the Cerbère-Banyuls Marine nature reserve, schemes for regenerating the fish stocks in the natural environment and along the coast are being developed – future regulations are likely to encourage greater sustainability.

Major sites
- the Odeillo solar furnace (CNRS)
- the Thémis solar power tower in Targasonne (CD66property)
- the Font-Romeu Olympic sports facilities
- the Gulf of Lion Marine Nature Park and the Cerbère-Banyuls Marine Nature Reserve
- the coast and its lagoon complex
- the Caune of Arago prehistoric cave in Tautavel

Odeillo solar furnace (© CNRS- G. Olalde)
Marine nature reserve of Cerbère-Banyuls (© CNRS-G. Saragoni)
High-performance research

1 IDEFI
MIRO
Multilingual cross-border professional master’s degree in cultural tourism, delivered entirely remotely on an e-learning platform.

1 EQUIPEX
SOCRATE
National experimental platform with an international angle carrying out research in the area of concentrated solar energy.

PROMES coordinator laboratory

4 TECHNOLOGY PLATFORMS
BIO-ENVIRONNEMENT (TECNOVIV): Biotechnology and molecular biology
Bio2Mar: Biodiversity and marine biotechnologies.
CREM-IEEM: Intervention and Valuation in Marine Environment

From 2010, the UPVD’s various research teams have overseen and participated in 42 national research agency (ANR) projects and 26 European projects.

6 LABEX
AGRO
Focused on plants of agronomic value. Research ranges from the study of genes to the end uses of plants.
LGDP partner laboratory

ARCHIMÈDE
Centre of excellence for research and education about the ancient Mediterranean region and Egypt.
CRESEM partner laboratory

CEMEB
Dynamics and functioning of biodiversity and ecosystems in global environmental changes due, in particular, to the human activities.
IHPE partner laboratory

CORAIL
Knowledge platform about coral reef ecosystems, designed to bring about more effective management of them.
CRIOBE coordinator laboratory

ENTREPRENDRE
For creating and sharing knowledge about undertaking work at the intersection of law, economics and management sciences.
MRM coordinator laboratory

SOLSTICE
Creating the country’s leading research unit and one of the two leading European research groups in the field of concentrated solar power technology, including all conversion modes.
PROMES coordinator laboratory
The research carried out within the UPVD’s various departments results in numerous applications in collaboration with major industrial groups and SMEs – both in France and abroad, as well as with many institutions, local authorities and foundations.

Companies

- Medical, chemistry and food processing industries: Bayer, Cémoi, Sanofi...
- Energy, environment: Areva, Air Liquide, EDF, GDF Suez, Saint Gobain, Shell, Suez, Total, Veolia...
- Information and communication technologies: EADS, IBM, Rockwell Collins, Thales...

SMIs, SMEs

- Abies Lagrimus, Actility, Actimar, Akinao, PBI, Coldway, EcoTech-Ceram, Egiseau, Energie R, Exoes, Exosun, FertilPlus, Inpixal, Numalis, Pyres.com, Resolution, Sunways, Prover, Solareuromed, Tecnalia...

Institutions

- CNRS, IRD, EPHE, MNHP, CIRAD, IFREMER, ONERA, CEA, INRA, CNES, INRIA, INSE, European Union, ANR, ONU, Ligue contre le cancer; OMS...

Companies and start-ups spawned by laboratories

AKINAO
Develops and validates methods for analysing natural substances derived from plants and microorganisms of marine origin.
From CRIOBE

COLDWAY
Develops isothermal thermochemical, refrigerated and autonomous containers for transporting temperature-sensitive products.
From PROMES

ECO-TECH-CERAM
Develops refractory ceramics by recycling inorganic industrial waste for energy storage.
From PROMES

ENERGIE R
Specialists in building thermal design, fluids and renewable energies.
From PROMES

NUMALIS
Develops automatic tools for detecting and correcting numerical errors in software.
From DALI-LIRMM

RESOLUTION
Micro pollutant processing using a solar photocatalysis reactor.
From PROMES

30% of all research contracts involve collaborations with private partners.
The clusters

**DERBI**

The DERBI Competitivity cluster is made up of representatives from the Languedoc-Roussillon and Midi-Pyrénées regions, together with companies, laboratories, universities, training centres, professional federations, financial bodies, and local authorities involved in developing the renewable energies sector.

**DERBI is hosted on the UPVD campus.**

**QUALIMEDITERRANEE**

The Qualiméditerranée cluster focuses on the development of an agriculture that is competitive and sustainable. This involves developing agro-biotechnologies and information and communications technologies designed to help farmers create new varieties and manage crops, as well as treating crops post-harvest.

**MER MÉDITERRANÉE**

The Mediterranean Sea cluster aims to develop the maritime and coastal economy in Provence-Alpes-Côte d’Azur, Languedoc Roussillon and Corse sustainably.

**EAU**

The aim of the Water cluster is to pool skills, questions and answers to provide adapted and innovative solutions to the numerous problems due to the water management.

The UPVD Foundation and the incubation hotel of innovating companies

The UPVD Foundation supports research and higher education. It was founded in 2008 in order to serve as a link between the University and the socio-economic world. The role it plays in fostering innovative new projects is essential.

With the help of its sponsors, the UPVD Foundation supports high value-added public interest initiatives, such as financing the UPVD’s research projects and creating an incubation hotel of innovative companies.

The UPVD’s incubation hotel:

- A single desk set up to bring the University closer to the socio-economic world.
- A structure that is dedicated to projects linked to the University’s research and student projects.
- 10 projects hosted in closed offices and a shared working area for emerging projects.
- Support that includes personalised tracking, training programmes, mentoring, help setting up a website and opportunities to network with other bodies in the entrepreneurial ecosystem.
- A new vehicle for the region which will increase its appeal, perhaps by encouraging other companies to establish a presence there.

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Fundamental and applied research areas

Living organisms and ecology

The global changes which our planet is currently experiencing are triggering major disruptions that are affecting the ways in which living organisms function, eroding biodiversity and destabilising our ecosystems.

One of the challenges that biology has to take up nowadays is to tackle different scales of investigation in an integrated fashion, ranging from the smallest molecular mechanisms to the largest levels of organisation (such as populations and ecosystems).

This will provide us with the resources we need to take action, monitor or even predict how the living organisms of the future will function.

Research units: LGDP, IHPE, CEFREM, CRIOBE, LEPSA

Dynamics of the environment and of anthroposystems

Humankind has become the main factor driving changes in nature. This area of research focuses on the environments within the Mediterranean land/sea continuum and looks at both the natural and anthropic processes that control the marine and sedimentary environments. The work involves adopting multidisciplinary approaches in chemistry, ecology and geology in order to describe, represent and model the way in which different ecosystems work and are changing under both natural and anthropogenic pressures. The aim is to play a part in creating an integrated management approach and develop a means of sustainably using natural resources by transferring and sharing the University community’s expertise.

Research units: CEFREM, CRIOBE, IMAGES-ESPACE DEV, BAE

Theory, complex systems and modelling

Based on the model system concept, research undertaken in this area is used to analyse actual phenomena and to predict results by applying one or several theories at a given level of approximation.

The research is also used to build different information systems.

Research is undertaken in applied mathematics, information technology, physics and theoretical chemistry.

Research units: LAMPS, DALI-LIRMM

Renewable energies, associated processes and materials

This is an area of research which is naturally seeing many developments, since it is generally focused on all energy sources. But it is currently focused on initiatives involving solar power in particular (high and low temperature thermal solar power, photovoltaic cells, etc.), since there are a number of world-renowned solar installations close by.

The research being conducted looks at so much more than just energy production: it tackles integration, energy system dynamics and management, energy storage and developing materials with controlled properties for energy conversion, as well as the behaviour of these materials when subjected to extreme stresses and solar chemistry.

Research units: PROMES, LAMPS
Development Aid Research Federation

The UPVD is a multidisciplinary university whose research naturally covers a wide range of areas. This research is applied at international level within the framework of numerous partnerships which often involve development aid.

The work carried out is in a number of extremely varied scientific areas, including regional development, energy and water, food safety, health, teaching and training.

Development aid is also a specialist field in itself. The UPVD is supported by the ART-DEV laboratory and the COREUS team belonging to the Institute of Research for Development (IRD). This team is supported by the Academy of Sciences through Michel Delseny – a member of the Academy and emeritus director of CNRS research at the Plant Genome and Development Laboratory (LGDP).

Involved research units: ART-DEV, IRD-ENTROPIE, PROMES, LGDP, IHPE, CRIOBE, LAMPS, IMAGES-ESPACE DEV, CDED, CRESEM

Transverse axis: development aid

This area of research looks into the complex interactions between societies and cultures and the surrounding regions.

Across a geographic field the centre of which is the area covered by the Pyrénées-Méditerranée region, research is carried out across embedded scales, from local to international level. It is underpinned by human and social science disciplines, within which issues to do with the relationship between humankind and the environment, the role played by various stakeholders, languages, the development of legal, linguistic and economic practices and standards - and markets in particular - are all central to concerns. The approach involves creating knowledge through fundamental and academic research so that it can be used by the region for its most practical applications, and so that it can be shared among the general public as widely as possible.

Research units: ART-DEV, CDDED, CORHIS, CRESEM, HNHP, MRM

Mediterranean and beyond: culture, regions, heritage, markets

This area of research looks into the complex interactions between societies and cultures and the surrounding regions.

La Caune de l’Arago, excavation site

Tautavel (© D. Dainat)
Research units

Exact and experimental sciences

**BAE**: Biosensors, Analysis, Environment, project team

**CEFREM**: Centre of Education and Research on the Mediterranean Environments, UMR 5110 CNRS-UPVD

**CRIOBE**: Centre of Island Research and Environmental Observatory, USR 3278 CNRS-EPHE-UPVD

**DALI-LIRMM**: Digits, Architectures, and Computer Softwares, project team of the LIRMM, UMR 5506 CNRS-UM

**IHPE**: Hosts, Pathogens, Environments Interactions, UMR 5244 CNRS (INEE)-UPVD-IFREMER-UM

**IMAGES-ESPACE DEV**: Modelling, and Analysis in Geo-Environment, project team of the UMR 228 IRD-UM-UAG-UR

**LAMPS**: Laboratory of Mathematics and Physics, EA 4217 UPVD

**LEPSA**: Performance Health and Altitude European Laboratory, EA 4640 UPVD

**LGDP**: Plant Genome and Development Laboratory, UMR 5096 CNRS-UPVD

**PROMES**: Processes Materials and Solar Energy, UPR 8521 CNRS (INSIS) - UPVD convention

**IHPE, LGDP**: 2 sciences academicians

**PROMES**: 1 CNRS silver medal 2014

**360 publications per year**

Human and social sciences

**ART DEV**: Actors, Ressources and Territories in Development, UMR 5281 CNRS-UPVD-UPVM-CIRAD-UM

**CORHIS**: Communication, Human Ressources and Social Intervention, EA UPVD-UPVM

**CRESEM**: Centre for research into societies and environments in the Mediterranean and beyond, EA UPVD

**HNHP**: Natural History of the Prehistoric Human Being, UMR 7194 CNRS-UPVD-MNHP

Legal and economic sciences

**CDED**: Centre for Economic Law and Development, EA 4216 UPVD

**MRM**: Montpellier Research in Management, EA 4557, UM-UPVD-UPVM-MBS

2 sciences academicians: IHPE, LGDP

1 CNRS silver medal 2014: PROMES

360 publications per year
BAE
Biosensors, Analysis, Environment
Project team

- 7 UPVD asst, assoc, prof
- 13 PhD students and postdoctoral researchers
- 3 technical and office staff

Site
- Perpignan

Areas of research
Bioanalysis, biosensors, biomimetic sensors for the environment, the agri-food sector and health.

Funded research projects
- European projects: BIOFOS, ELENA
- ANR: TRICETOX

Equipment
- Electrochemical stations (2) including 1 with impedance module, potentiostats (7) 3 of which are portable.
- Microplate readers (absorbance, fluorescence, luminescence).
- Spectrophotometers (3), spectrofluorometer.
- HPLC-DAD and HPLC-Fluorescence.
- Silkscreen printing machine (electrode manufacture).
- Workstations in sterile conditions, standard microbiology and molecular biology equipment.

Partnerships
Sociétés PBI, CEMOI (F), LIONIX (NL), SURFIX (NL), CSEM (CH), COVAP (ES), SAXION (NL), CIDETEC (ES), DROPSENS (ES)...
Many partnerships with other universities and international institutions (6 European programmes or Interreg initiatives and 9 bilateral exchange programmes since 2008).

UPVD Master Programmes
Marine sciences:
- Biodiversity and sustainable development
- Marine geoscience and aquatic environments

CEFREM
Centre of Education and Research on Mediterranean Environments, UMR 5110 UPVD-CNRS

Equipment
- CREM-IEEM Platform (Intervention and Valuation in Marine Environment): vehicles, boats, diving equipment, seismic sonar, courantomètre, DGPS, softwares and stations for digital processing...
- Station POEM-L2R/ tracking of transfers earth-sea: station for fluvial samples, coastal monitoring buoy, particules traps, ADCP profiling, glider ramp, ...
- ICP-MS for analysis ETM, 13C and 15N mass spectrometer, C and N elementary analyser, spinner, autoclave, optical microscopes, laser granulometer, sieve shaker, ...

Partnerships
Veolia, Lyonnaise des Eaux, Total, IFREMER, CG66, DREAL LR, Parc Marin...
Research bodies (Banyuls-sur-Mer, Toulouse, Montpellier, La Seyne-sur-Mer, Aix-en-Provence, Marseille, Nice, Bordeaux, Paris, Brest, Caen, Barcelona, Athènes, Ancône, ...)
**CRIOBE**
Centre of Island Research and Environmental Observatory
USR 3278 UPVD-EPHE-CNRS
Coordinator of LABEX CORAIL

- 25 asst, assoc, prof researchers
  (9 UPVD asst, assoc, prof)
- 40 PhD students and postdoctoral researchers
- 19 technical and office staff

**Sites**
- Perpignan
- Moorea (French Polynesia)

**Areas of research**
- From genes to molecules: an integrative approach to studying coral reefs.
- Biology of populations, chemical ecology and interactions within ecosystems.
- Operation and governance of socio-ecosystems.

**Funded research projects**
- LABEX CORAIL, coordinator
- European projects: COCONET, CORAIL, BUFFER
- ANR: TRICETOX, LIVE AND LET DIE, ACROSS, STAY OR GO, POLYPERL

**Equipment**
- Bio2Mar technology platform (RMN, LC-MS, GC-MS, HPLC-PDA-ELSD)
- Analytical and semi-preparative HPLC GPC/FID
- CEM Liberty 1 automated microwave peptide synthesizer
- Population genetics laboratory (extraction robots, PCR, etc.)
- Sclerochronology laboratory

**Partnerships**
- Institutional partners: Agence des aires marines protégées, Direction régionale pour l’environnement
- Industrial partners: Akinao, Cemoi, Polynesian environmental society, Pacific Biotec, Manutea, EDT, Intercontinental, Amélie thermal spring...

**DALI - LIRMM**
Digits, Architectures et Computer softwares
Project team of the LIRMM, UMR 5506 UM-CNRS

- 6 UPVD asst, assoc, prof
- 8 PhD students and postdoctoral researchers
- 3 technical and office staff

**Site**
- Perpignan

**Areas of research**
- Computational performance
- Digital quality

**Funded research projects**
- European projects: FP7 Montblanc 2
- ANR: METALIBM, PAVOIS

**UPVD Master Programmes**
Marine sciences:
- Biodiversity and sustainable development
- Marine geoscience and aquatic environments

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IHPE
Hosts, Pathogens, Environment, Interactions
UMR 5244 UPVD-UM-CNRS (INEE)-IFREMER - Partner of LABEX CeMEB

24 asst, assoc, prof researchers
(9 UPVD asst, assoc, prof)
7 PhD students and postdoctoral researchers
8 technical and office staff

Sites
- Perpignan
- Montpellier

Research teams
- MIMM Mechanisms of Adaptation and Interaction in the Marine Environment
- BMC Molecular Basis of Co-evolution
- 2EIHP Ecology and Evolution of Host-Parasite Interactions
- Two challenges: « Relative weight of genetics and epigenetics in adaptative evolution » and « Dynamics of the holobiont and fitness ».

Funded research projects
- ANR:
  INVIMORY, MATER-IMMUNITY, EPIGE-VOL, VIBRIOGEN, DECIPHER, ADACNI, GIMEPEC

Equipment
- Technology platform BIO- ENVIRONEMENT (TECNOVIV)
- Aquaculture experimental platform at Palavas-les-Flots
- Animals

Partnerships
OMS, ANSES, Sanofi

UPVD Master Programmes
- Biodiversity, ecology and evolution: Biodiversity and sustainable development

 IMAGES - ESPACE DEV
Modelling, and Analysis in Geo-Environment
Team project of the ESPACE DEV, UMR IRD 228 UM-UR-UAG

9 UPVD asst, assoc, prof
6 PhD students and postdoctoral researchers
1,5 technical and office staff

Site
- Perpignan

Areas of research
- Climate change
- Ocean acidification
- Satellite image analysis
- Theory of distributed systems
- Free radicals and oxidative stress

Funded research projects
- European programmes: MEDSEA
- ANR:
  BIOHOPSYS

Equipment
- Carbon measurement (equipment for analysing dissolved carbon and nitrogen, total inorganic carbon and total alkalinity, partial carbonic gas pressure)
- Devices which use fluorescence

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IMAGES team manager: Prof Catherine Goyet
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UPVD Master Programmes
- Biodiversity, ecology and evolution: Biodiversity and sustainable development
- Energy: Materials and solar processes
- Electronics, electrical energy, automatic control engineering: Automatics and on-board systems for energy management
LAMPS
Laboratory of Mathematics and Physics
EA 4217 UPVD

24 UPVD asst, assoc, prof
8 PhD students and postdoctoral researchers
3 technical and office staff

Site
- Perpignan

Areas of research
- Fluid, thermal and energy mechanics
- Molecular and spin relaxation processes
- Contact mechanics
- Optimal control and game theory
- Partial differential equations

Funded research projects
- European projects: CONTACT, DMH, PHC POLONIUM 2014-2015
- ANR: DEFIS, CAFEIN

Equipment
Computing servers

Partnerships
Jagiellonian University (Pologne), The University of Iowa (USA), Oakland University (USA), Guangxi University (PR China), Zhejiang University (PR China), Trinity College Dublin (Irlande), Radiotechnical and electronical institute of the Russia Sciences Academy, Moscow.

Industrial partnerships
Airbus, Rockwell-Collins, Thales, Numalis

UPVD Master Programmes
- Electronics, electrical energy automatic control engineering: Automatics and onboard systems for energy management
- High-performance computing, simulation

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LEPSA
Performance Health and Altitude European Laboratory
EA 4604 UPVD

7 UPVD asst, assoc, prof
2 PhD students and postdoctoral researchers
1 technical and office staff

Sites
- Font-Romeu
- Gérone

Areas of research
- Cardiorespiratory adaptation to exercise at moderate altitude
- Cellular approach to adaptation to exercise at moderate altitude
- Environmental hypoxaemia (altitude), physiological hypoxaemia (caused by exercise) and/or pathological hypoxaemia: physiopathology, mechanisms of action and consequences on people in motion
- Extreme environments and consequences on people in motion

Equipment
Two appliances for measuring gaseous exchange

Partnerships
Paris 13, Evry, University of Girona (Medicine), National school of ski and alpinisme (Chamonix) Catalan mountain federation (FEEC), Chair in Alpine medicine and the natural environment and clinical simulations (University of Girona)

UPVD Master Programmes
- Physical activity and sports science and technology: Altitude and performance (STAPS)

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LGDP
Plant Genome and Development Laboratory
UMR 5096 UPVD-CNRS
Partner of LABEX AGRO

22 asst, assoc, prof, researchers
(10 UPVD asst, assoc, prof)
6 PhD students and postdoctoral researchers
16 technical and office staff

Site
- Perpignan

Areas of research
The LGDP is involved in research and study on plant genome organization and gene regulation, particularly their role in plant development and adaptation to biotic and abiotic stresses. The models are the rice and Arabidopsis.
- Stress-induced post-transcriptional reprogramming of plant gene expression
- Transcriptional gene silencing and RNA silencing in plants
- Genome analysis and evolution
- Functions of redoxins in plant development and stress response
- The nucleous and the ARNr genes

Funded research projects
- LABEX AGRO, partner
- ANR: HEAT, ADAPT, PAGES, Epi-RNase, CYTHIOH, NERDPATH, SUBCELIF

Equipment
- Technology platform BIO-ENVIRONEMENT (TECNOVIV)
- Growth chambers
- qPCR
- Transgenosis
- Bioinformatics
- Microcopying service
- Sequencing

Partnerships
Agropolis community, natural réserves of the Pyrénées-Orientales.
Numerous collaborations with laboratories in Europe (United Kingdom, Spain, Poland), Asia (Japan, Taiwan), United-States, South America (Brazil).

UPVD Master Programmes
- Biodiversity, ecology and evolution: Biodiversity and sustainable development

PROMES
Processes, Materials and Solar Energy
UPR 8521 CNRS (INSIS)
UPVD convention
Coordinator of LABEX SOLSTICE

53 asst, assoc, prof, researchers, engineers
(35 UPVD asst, assoc, prof)
63 PhD students and postdoctoral researchers
49 technical and office staff

Sites
- Perpignan
- Font-Romeu Odeillo
- Targasonne

Areas of research
- Materials and extreme conditions
- Conversion, storage and transport of energy

Funded research projects
- LABEX SOLSTICE, coordinator
- EQUIPEX: SOCRATE, coordinator
- European projects: CSP2, EU-SOLARIS, SFERA 2, STAGE-STE, RAPID, EUROUSUNMED
- ANR: ASTORIX, DROID, DENOPI, HD-Plasm-A-SINOCH, DBDBD, OPTISOL, DRYRSP, IN-STORES

Equipment
- 1 megawatt solar furnace (MWSF)
- 11 mean sizes solar furnaces (MSSFs)
- A 5 MW pilot central receiver tower-Thémis (CG 66)

Partnerships

Research alliances: international (SolarPACES), european (SOLLAB), national (Fédésol).

UPVD Master Programmes
- Energy: materials and solar processes
- Electronics, electrical energy, automatic control engineering: Automatics and on-board systems for energy management
- EUREC Master (spec. Solar Thermal)
ART-DEV
Actors, Ressources and Territories in Development
UMR 5281 UPVD-UPVM-UM-CNRS-CIRAD

Sites
- Perpignan
- Montpellier

Areas of research
Area 1 - Rural reconstructions and public policies:
- Activity systems, multi-localisation and multi-functionality
- Production, distribution and territorialisation of public policies
- Rural society put to the test by development practices and reference frameworks

Area 2 - Natural resources and environmental regulation:
- Rules and regulations for determining how resources should be used
- Water appropriation and management
- Technology, energy and issues to do with transition

Area 3 - Interfaces, anchorings and traffic in a globalised world:
- Mobility, exchanges and networks
- Residents’ practices, cities and urban projects

Funded research projects
- European projects:
  LIFE+ LAG'NATURE, France-Hongria bilateral accord
  ANR: TERRE-EAU, USART

Partnerships
Universities of Pretoria, Rio de Janeiro, Brasília, Costa Rica, Ouagadougou, Global Bank, UEMOA (Economic and monetary union of Western Africa), Local community of Mayotte, Rising Powers and Global Standards

UPVD Master Programmes (UPVM co-certification)
Town planning and urban development:
- Town planning, housing and urban development
- Town planning and land development

Director: Prof David Giband
+33(0)4 68 66 23 45
giband@univ-perp.fr

http://art-dev.cnrs.fr

CORHIS
Communication, Human Ressources and Sociale Intervention
EA UPVD-UPVM

Social Audit, International Applied Research Studies of Innovations in Communication (IARSIC), ...

UPVD Master Programmes
Sociology:
- Lifestyles, social and cultural transformations in the Mediterranean region
- Reflective practice of social intervention

Director: Prof Alain Briole
Perpignan team manager: Prof Yves Gilbert
gilbert@univ-perp.fr
CRESEM
Centre for research into societies & environments in the Mediterranean & Beyond
EA UPVD
Partner of LABEX ARCHIMEDE

Site
- Perpignan

Areas of research
- Norms
- Territories
- Identities
- Texts
- Heritages

Funded research projects
- LABEX ARCHIMEDE, partner
- European projects:
  - FADNTOOL, PAT TEIN, MEFRO, COST SAREP
- ANR:
  - ORFEO

Partnerships
General Council of the Pyrénées-Orientales, Generalitat de Cataluna,
Universities of Barcelona, University of Senghor of the Francophonie, Alexandria (Egypt),
Aquitaine region, Universities of Lausanne, Lille 3, Lisbonne, Louvain-la-Neuve, Paris IV, Toulouse 2, Trieste,
Wroclaw, Greater Manchester, local communities, Hydroelectric society of the Nyer channel.

UPVD Master Programmes
- Master Mundus « Crossways in Cultural Narratives »
- Applied foreign languages
- Language sciences
- Art, literature and civilisation
- European and International studies
- History, civilisations, heritages
- Sociology
- Tourism
- Comparative law

HNHP
Natural History of the Prehistoric Human Being
UMR 7194 MNHP-UPVD-CNRS

Site
- Perpignan
- Tautavel
- Paris
- Les Eyzies de Tayac

Areas of research
- Dynamics of early human settlements
- Behaviour of Neanderthals and anatomically modern humans in their paleoecological context
- Prehistoric landscapes, people, sedimentary archives and materials

Funded research projects
- European projects:
  - prehSEA
- ANR:
  - PremAcheuSept

Partnerships
CEREGE LN2C: National Laboratory of the Cosmogenic Nucleides.
BRGM, natural reserves

UPVD Master Programmes
(MNHN co-certification)
Archeology, sciences for the archeology

Equipment
- A sedimentology-micromorphology platform: for characterising sediment, modes of transport and the conditions under which it forms.
- A geochronology platform: dating of fossilised dental remains using combined U-Th/ESR methods; dating of alluvial, wind borne and marine sediments using the ESR method; paleomagnetism.
- A palynology platform: palynological analysis of Pleistocene and Holocene sedimentary sequences; paleoenvironmental interpretations.
- A platform for characterising archaeological materials: characterisation of archaeological and sedimentary materials; taphonomic alterations.

Director: Prof Martin Galinier
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galinier@univ-perp.fr

Director: DR Christophe Falguère
UPVD - Tautavel Manager:
Sophie Grégoire
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+33 (0)4 68 66 17 80
**CDED**
Centre for Economic Law and Development
EA 4216 UPVD

37 UPVD asst, assoc, prof
55 PhD students and postdoctoral researchers
1 office staff

**Site**
- Perpignan

**Areas of research**
- Competition law
- Consumer law
- Contract law
- Collective proceedings and excessive debt
- Security law
- Litigation and ethics
- Corporate law and financing law
- Public action and sustainable development
- Prospective and genealogy of fundamental public law
- Health

**Funded research projects**
- ANR: MACROES

**Partnerships**
- Laboratory of business law and new technologies (DANTE - USQV)
- Institute of european private and comparative law (University of Girona)

**UPVD Master Programmes**
- Environnement and urban planning law
- Property legislation
- Business law
- Justice, trial and legal proceedings
- Public administration

**Director:** Prof Marcel Sousse
+33(0)4 68 66 17 16
marcel.sousse@univ-perp.fr

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**MRM**
Montpellier Research in Management
EA 4557 UM-UPVM-UPVD, MBS
Coordinator of LABEX ENTREPRENDRE

132 asst, assoc, prof, researchers
(6 UPVD asst, assoc, prof)
69 PhD students and postdoctoral researchers

**Sites**
- Perpignan
- Montpellier

**Areas of research**
- Food-processing industry
- Innovation
- Health
- Responsible management

**Functional groups:**
- Accounting and society
- Entrepreneurship
- Finance
- Human resources management
- Marketing
- Strategy
- Information systems
- Altermanagement

**Funded research projects**
- LABEX ENTREPRENDRE, coordinator
- ANR: GEODD

**Partnerships**
- Scientific:
UMR MOISA, AGRO PARISTECH, IRSTEA
- Institutional:
Regional order of the certified public accountants, CEA

**UPVD Master Programmes**
- Management
- Sector management

**Perpignan team manager:**
Assoc Fabienne Villesèque-Dubus
+33(0)4 30 95 04 92
fabienne.villeseque@univ-perp.fr

www.mrm.univ-montp2.fr
Research organization

- **Research management**

  
  Vice-President of research: Prof Xavier Py
  - Research committee of the academic board
  - Scientific bureau
  - Research grants
  - Cross-functional research
  - Institutional research-related relations

  Contact: vp-cs@univ-perp.fr

- **Technology transfer**

  
  Vice-President of application: Assoc Matthieu Martel
  - Technology business incubation
  - Industrial property
  - Industrial and commercial activities department
  - Transfer of technology

  Contact: vp-valo@univ-perp.fr

- **Doctoral training**

  
  - Energy and Environment Doctoral School (E2 ED 305). Including 11 research units and is specific to the UPVD.
  **Director:** Prof Didier Aussel

  - Development and Spatial, Cross-border and Intercultural Dynamics Doctoral School (Inter-Med ED 544). Including 6 research units and is specific to the UPVD.
  **Director:** Prof Yves Picod

- **Research and technology transfer department (DRV)**

  Administrative director: Audrey Pagès
  Research, doctoral school and applied research administrative management.

  Contact: audrey.pages@univ-perp.fr

**UPVD Doctoral schools**

**ED 305: Energy - Environment**

- **Areas of research**
  Life and earth sciences, processes, renewable energies, information technology, physics and applied mathematics, sea environments, physical activity and sports sciences.
  140 PhD students

- **Research units members**
  LAMPS, LGDP, PROMES, IHPE, CEFREM, LEPSA, DALI-LIRMM, CIRAD (BioWooEB), CRIOBE, BAE, IMAGES-ESPACE DEV

  Contact: jpla@univ-perp.fr

**ED 544: Inter-Med**

- **Areas of research**
  Human sciences, humanities, social sciences.
  260 PhD students

- **Research units members**
  CRESEM, CDED, ART DEV, MRM, CORHIS, HNHP

  Contact: suzanne.gilardot@univ-perp.fr

**1 COMUE doctoral college**

Languedoc Roussillon Universities

**2 UPVD doctoral schools**

**400 UPVD PhD students**

100 PhD thesis defended each year
The research units classified per scientific discipline

**Spatial planning, urban development:**
ART-DEV

**Automatic control engineering:**
PROMES

**Biochemistry and molecular biology:**
CEFREM, CRIOBE, BAE

**Cell biology:**
LGDP

**Biology of organisms:**
IHPE, CRIOBE

**Population biology and ecology:**
CEFREM, CRIOBE, IHPE, ENTROPIE

**Chemistry:**
CRIOBE, BAE, PROMES, LAMPS

**Private law:**
CDED

**Public law:**
CDED

**Energetics:**
PROMES, LAMPS

**Physical, human, economic and regional geography:**
HNHP, ART-DEV

**Genomics:**
LGDP, IHPE, CRIOBE

**Process engineering:**
PROMES

**History, civilisations, archaeology and art of ancient, mediaeval, modern and contemporary worlds:**
CRESEM

**History of law and institutions:**
CRESEM

**Information technology:**
DALI-LIRMM, LAMPS

**Ancient language and literature:**
CRESEM

**French, Spanish, English, Catalan language and literature:**
CRESEM

**Comparative literature:**
CRESEM

**Materials:**
PROMES

**Mathematics:**
LAMPS

**Mecanics:**
LAMPS

**Dense media and materials:**
PROMES

**Physical oceanography of the environment:**
CEFREM, IMAGES-ESPACE DEV

**Physiology:**
LEPSA

**Photonics and systems:**
PROMES

**Prehistory:**
HNHP

**Political science:**
CDED

**Management sciences:**
MRM

**Economics:**
CRESEM

**Physical activity and sports science and technology:**
LEPSA

**Language sciences:**
CRESEM

**Sociology:**
CRESEM, CORHIS

**Solid earth, geodynamics of upper envelopes:**
CEFREM, HNHP

**Signal processing:**
PROMES, LAMPS
Acronyms

**ANR**: National Research Agency

**Asst**: Assistant Professor
(French rank : Maître de Conférences)

**Assoc**: Associate Professor
(French rank : Maître de Conférences HDR)

**CIRAD**: Agricultural research for development

**CNRS**: National Centre of Scientific Research

**CNRS (INEE)**: Ecology and Environment Institute

**CNRS (INSIS)**: Enginering and systems sciences institute

**DR**: Director of research (CNRS, IRD)

**EA**: University research team

**ED**: Doctoral school

**EPHE**: High Studies Practical School

**EQUIPEX**: Equipment of Excellence (in response to the Innovative Excellence of Future call)

**IDEFI**: Innovative Excellence in Training Initiative (in response to the Innovative Excellence of Future call)

**IRD**: Research Institute for Development

**LABEX**: Laboratories of excellence (in response to the Innovative Excellence of Future call)

**MNHP**: National Natural History Museum of Paris

**MBS**: Montpellier Business School

**Prof**: Professor

**UAG**: University of Antilles Guyane

**UM**: University of Montpellier

**UMR**: Joint research unit of CNRS-university

**UPR**: Proper unit research of CNRS

**UPMC**: University of Pierre and Marie Curie, Paris VI

**UPVM**: University of Paul Valéry Montpellier

**UR**: University of La Réunion

**USR**: Service and research unit

Marine nature reserve of Cerbère-Banyuls
(© CNRS-G. Saragoni)
Must-see film:
the UPVD research film
go.upvd.fr/film

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