

NATIONAL RESEARCH AGENCY

RENEWABLE ENERGIES, ASSOCIATED PROCESSES AND MATERIALS

[PROMES](#)

- **DRyRSP**: Dry cooling and water producing system for Rankine based thermodynamic solar power plants.
- **ASTORIX**: high-temperature micro-textured oxidation resistant solar absorbers.
- **HD-Plasm-A-SINOC**: High Density CVD/PVD Plasmas for SiNOCH thin PACVD and PVD coatings (study of the interactions between plasmas and surfaces in order to understand how layers and their film / substrate interfaces develop: optical and electrical properties).
- **DROID**: distributed fibre-optic dosimeter.
- **DENOPI**: accidental dewatering of spent nuclear fuel storage pool.
- **PREPA**: atmospheric pressure plasmas and photovoltaic application.
- **SESCO**: Sensible heat thermal energy storage at high temperature using recycled refractory ceramics made of vitrified Abestos containing wastes.
- **OPTISOL** : high-temperature volumetric solar absorbers with controlled optical properties.
- **CO2FUEL**: redox cycle-driven reuse of CO₂.
- **ENERCO-LT**: recovering energy from low-temperature heat sources.
- **SACRE**: compressed air storage for the electricity grid.
- **DBDBD**: development of functional, nanostructured coatings on wood surfaces using cold atmospheric pressure plasmas.
- **IN-STORES**: integration of a thermochemical storage process in a Rankine cycle, driven by concentrated solar energy.

HOW LIVING ORGANISMS FUNCTION AND ECOLOGY

[LGDP](#)

- **PLANT RNPBODIES**: formation, biochemical composition and function of stress-induced cytoplasmic RNP aggregates in Arabidopsis.
- **PAGE**: evolution of plant and animal genomes.
- **Epi-RNase**: function of RNaseIII-like proteins in plants. Implication in the epigenome.
- **CYNTHIOL**: cytosolic NADP-thiol systems in oxidative signalling in plants
- **NERDPATH**: functional analysis of a new siRNA-dependent transcriptional gene silencing pathway that targets rapidly evolving genomic regions of the plant genome.
- **HEAT-ADAPT**: post-transcriptional regulation of the heat stress response in plants.

[IHPE](#)

- **INVIMORY**: INVertebrate IMmune memORY: specificity and mechanisms of immune memory in the *Lophotrochozoan snail Biomphalaria glabrata*.
- **MATER-IMMUNITY**: Maternal transfer of immunity in insects: functional characterisation and evolution
- **VIBRIOGEN**: Vibrios infecting marine invertebrates: new insights into vibrio virulence and adaptive gene reservoirs for adapting to their ecological niche
- **DECIPHER**: Deciphering multifactorial diseases: insight into oyster mortalities
- **ADACNI**: Adaptive processes in cnidarians : integrative study of the response to thermal stress and climate change, from genes to populations
- **GIMEPEC**: Génotoxicité, IMMunotoxicité et rEprotoxicité des PEsticides chez *Crassostrea gigas*

[CRIOBE](#)

TRICETOX: environmental impact of synthetic and natural β -triketone herbicides: detection, microbial adaptation, biodegradation and toxicity.

LIVE AND LET DIE: global and regional environmental changes and effects on coral reef biodiversity and resilience.

ACROSS

STAY OR GO: Should I stay or should I go? Phenotypic and environmental determinants of larval dispersal.

POLYPERL: integrated management and adaptation of the pearl farming industry in French Polynesia within the context of global change: environmental, economic and social approach.

DYNAMICS OF THE ENVIRONMENT AND OF ANTHROPOSYSTEMS

[CEFREM](#)

- **MATUGLI**: using gliders to measure coastal turbidity..

[BAE](#)

- **TRICETOX**: environmental impact of synthetic and natural β -triketone herbicides: detection, microbial adaptation, biodegradation and toxicity.

[IMAGES-ESPACE DEV](#)

- **BIOHOPSYS**: Biodiversity and dynamics interactions in multiple host-parasite systems.

THEORY, COMPLEX SYSTEMS, MODELLING

[DALI-LIRMM](#)

- **DEFIS**: Design of fixed point systems.
- **CAFEIN**: Combining analyses for the study of numerical invariants.
- **PAVOIS**: Arithmetic protections against physical attacks for elliptic curve based cryptography.
- **METALIBM**: code generators for mathematical functions and filters.

MEDITERRANEAN: REGIONS, CULTURES, SOCIETIES, HERITAGES, MARKETS

[ART-DEV](#)

- **USART**
- **TERRE-WATER**: Dynamics of the territories and the ecosystems and representations of the evolutions due to the global changes.

[CRESEM](#)

- **ORFEO**: Tools and resources for the written and spoken French

[HNHP](#)

- **PREMACHEUSEPT** : Birth of the Acheulean in North-West Europe: a multidisciplinary study

[MRM](#)

- **GEODD**: Management of the business, Organisations, Sustainable Development

