PEARL

Pre-selected thesis projects
(Second call for PhD projects)

PhD research project	1st PI, laboratory	2nd PI, laboratory
MATisSE - Development of an instrumented microfluidic culture system to study tumour-stroma interaction and drug sensitivity of pancreatic adenocarcinoma	Vincent SENEZ, LIMMS	Isabelle VAN SEUNINGEN, CANTHER
FlaxTronic - Micro-Electronic Assisted flax dew retting	Sébastien GREC, UGSF	Lionel BUCHAILLOT, IEMN
TOPAZ - Assessing the toxicity of plastic fragments on zooplankton ecology via video tracking and behavioral analysis	Sami SOUISSI, LOG	Philippe ZINCK, UCCS
FLIRBATTEX - Flexible fabric-based fire retardant batteries for applications in smart textiles	Vladan KONCAR, GEMTEX	Maude JIMENEZ, UMET
PASSAGE - PhArmaceutical Solid State devices AGainst diabetEs worsening	Susanne MUSCHERT, U1008	Emeline DUDOGNON, UMET
TFClass - Leveraging multi-omics data to implement a Transcription Factor Classifier	Jérôme EECKHOUTE, U1011	Guillemette MAROT, ULR 2694
CID - Catalysis Inducing Diodes for sustainable chemistry	Vitaly ORDOMSKY, UCCS	Bruno GRANDIDIER, IEMN
PERIL - Development and improvement of a PERifusion chamber for the analysis of hormonal secretions of Islets Langerhans and evaluation of the metabolism of the cell	Patrice CODEVILLE, S.A.G.E.	Valery GMYR, U1190
POMADE-CoV - Porous materials for the capture and the decomposition of coronaviruses	Christophe VOLKRINGER, UCSS	Anne GOFFARD, U1019
RIMED - Rewiring programmed cell death and Inflammation via Modulation of ERK signalling Dynamics	Franck RIQUET, PhLAM	Benjamin PFEUTY, PhLAM
METEOR - Dimensionality engineering of heteronanostructures	Louis BIADALA, IEMN	Ji GANG, UMET
SOCIETAL_WEB_TRACKING - The Societal Impact of Omnipresent Invasive Tracking on the Web: A rigorous study of the technologies, challenges, risks, defences and user perception of Web tracking.	Walter RUDAMETKIN, CRIStAL	Fabien ELOIRE, CLERSE
OSCAR - Optimal techniques for Smart grid Charging of Autonomous electrical vehicles with Renewable energy sources	Bruno FRANCOIS, L2EP	Luce BROTCORNE, Inria INOCS
MOLTEN - Integrated Biomass Fractionation and Platform Molecules production with Lignin Valorization	Fabio BELLOT NOROHNA, UCSS	Guillaume VANHOVE, PC2A
MusQUA - MUlti-scale processing of Spatio-temporal data applied to air Quality in Urban Areas	Romain ROUVOY, CRIStAL	Suzanne CRUMEYROLLE, LOA
SENESIMEX - Computer Simulation and Experiments of Radio-Induced Cell Senescence	Fabrizio CLERI, IEMN	Corinne ABBADIE, UMR 8161