

PROGETTI DI RICERCA PRIN 2022 PNRR

Finanziati dall'Unione europea – Next Generation EU

- Innovative formulations for the treatment of recalcitrant infections of the ocular surface (NANOEYE) - **Prof. Rosario Pignatello (PI)**
- A Double Hybrids strategy for cancer treatment by targeting the Heme Oxygenase system (HO-Hybrid 2) - **Dr. Sebastiano Intagliata (PI)**
- Role of second-generation antidepressants in Traumatic Brain Injury: focus on TGF-beta1 pathway and the gut/brain axis - **Prof. Filippo Caraci (PI)**
- Identifying the role of a natural dominant-negative variant of DNA polymerase- β on the onset and progression of Alzheimer's disease - **Prof.ssa Agata C. Copani**
- Novel biomedical devices combining antimicrobial and anti-inflammatory activity by embedding bioactive-loaded nanoconstructs in polymer films for more effectiveness in infectious disease treatment (BIONANOF) - **Prof. Salvatore Petralia** (PI: Prof. P. BERNARDO, CNR, Rende)
- A molecular platform for intracellular nitric oxide sensing. - **Prof. Salvatore Sortino**, in collab. con l'Università di Parma
- Biomass-derived sensors for the detection of heavy metals in water (BioMetSensor) - **Prof.ssa Maria Assunta Chiacchio** - in collab. con l'Università di Messina
- Utilizzo dei sottoprodotti di *Cynara* spp. come fonte di molecole con attività inibitoria sugli enzimi cutanei. - **Prof. Venerando Pistarà**, in collab. con le Università di Cagliari e Napoli Federico II e il CNR-ISMN di Messina.
- Valorizzazione della biomassa mediante solventi eutettici profondi macrociclici di derivazione naturale (BioVaNaMADES) - **Prof. Antonio Rescifina**, in collab. con l'Università della Calabria.
- Green Protein-Based Nanohybrids as Adaptive Surfactants" (GrASs) - **Prof. Francesco Punzo** (PI: prof. G.C. Li Destri Nicosia, UniCT).
- Sigma receptors, histone deacetylases and matrix metalloproteinases for a multitarget approach to uveal melanoma – **Prof. Agostino Marrazzo**
- Investigation of Tau-dependent epigenetic reprogramming in Alzheimer's disease - **prof.ssa Lorella Pasquinucci** (PI: prof. F. Basolo, Univ. di Pisa)
- Targeting Sigma-1 receptors to treat cognitive dysfunction induced by central noradrenaline loss - **Prof. Giampiero Leanza (P.I.)**