

Spoke	Sotto-progetto di riferimento	Titolo progetto	PI/Referente	Mail	Ente	Milestone	Periodo	Partners coinvolti
7	Sub-project 1 - Design, discovery and development of drugs and tools for innovative treatments in rare and infectious diseases.	Personalized treatment in COVID-19 Systems biology analyses of immune response to COVID-19 vaccines in healthy and fragile subjects mRNA as a medicinal product: fate of the host cell in which translation occur and impact on the immune response DEVELOPMENT OF TARGETED THERAPIES FOR RARE CANCERS (HAIRY CELL LEUKEMIA AND MEDULLOBLASTOMA), IDIOPATHIC PULMONARY FIBROSIS AND RETINITIS PIGMENTOSA Design of monoclonal antibodies for innovative treatments of emerging infectious diseases A bioinorganic chemistry approach to design, discover and develop drugs for innovative treatments in rare and infectious diseases	Renieri Alessandra Medaglini Donata Francesco Santoro Campiani Giuseppe Montomoli Emanuele Messori Luigi	<a href="mailto:alessandra.renieri@unisi.it">alessandra.renieri@unisi.it</a> <a href="mailto:donata.medaglini@unisi.it">donata.medaglini@unisi.it</a> <a href="mailto:santorof@unisi.it">santorof@unisi.it</a> <a href="mailto:campiani@unisi.it">campiani@unisi.it</a> <a href="mailto:emanuele.montomoli@unisi.it">emanuele.montomoli@unisi.it</a> <a href="mailto:luigi.messori@unifi.it">luigi.messori@unifi.it</a>	UNISI UNISI UNISI UNISI UNISI UNIFI	M7.1.1, M7.1.2, M7.1.3	M1-36	UNISI, UNIFI
7	Sub-project 2 - Innovative approaches for the diagnosis, treatment and monitoring of rare diseases.	Genomic approaches for increasing the diagnostic yield for rare disorders. Functional Proteomics for diagnosis, treatment and monitoring of rare, chronic and infectious diseases  Innovative imaging approaches for the diagnosis, treatment and monitoring of Cardiotoxicity induced by immune checkpoint inhibitors in oncologic patients Curing Central Core Disease myopathy Gene editing approaches for treatment of different disorders. Synergic role of molecular and omics biomarkers in the early differential diagnosis, management and personalized treatment of patients with rare and complex rheumatic diseases	Mari Francesca Bini Luca  Cameli Matteo Sorrentino Vincenzo Meloni Ilaria Mosca Marta	<a href="mailto:francesca.mari@unisi.it">francesca.mari@unisi.it</a> <a href="mailto:luca.bini@unisi.it">luca.bini@unisi.it</a>  <a href="mailto:matteo.cameli@unisi.it">matteo.cameli@unisi.it</a> <a href="mailto:vincenzo.sorrentino@unisi.it">vincenzo.sorrentino@unisi.it</a> <a href="mailto:meloni2@unisi.it">meloni2@unisi.it</a> <a href="mailto:marta.mosca@unipi.it">marta.mosca@unipi.it</a>	UNISI UNISI  UNISI UNISI UNISI UNIFI	M7.2.1, M7.2.2, M7.2.3	M1-36	UNISI, UNIFI
7	Sub-project 3 - Advanced biomedical, biotechnological and bioengineer approaches for patients with chronic disorders.	Development of anti-metastatic biomolecules Caratterizzazione ultrastrutturale ad alta risoluzione di campioni biologici e nanomateriali di interesse applicativo in biomedicina Selection and development of Sclerostin peptide inhibitors for bone regeneration Wnt-3a and Wnt-5a; molecular role in the pathogenesis of Ankylosing Spondylitis, Psoriatic Arthritis and Rheumatoid Arthritis and correlations with Bone Metabolism.  Hedgehog pathways and CAXII as marker of melanoma invasiveness and prognosis. Microbubbles-encapsulated mRNA delivered by direct pulmonary delivery system for the treatment lung cancers.  The tumor immune microenvironment of cholangiocarcinoma in the identification of biomarkers of treatment response and of novel druggable targets for treatment	Brunetti Ilenia Lupetti Pietro Bracci Luisa Frediani Bruno Carraro Fabio Giordano Antonio Marra Fabio	<a href="mailto:ilenia.brunetti@unisi.it">ilenia.brunetti@unisi.it</a> <a href="mailto:pietro.lupetti@unisi.it">pietro.lupetti@unisi.it</a> <a href="mailto:luisa.bracci@unisi.it">luisa.bracci@unisi.it</a> <a href="mailto:bruno.frediani@unisi.it">bruno.frediani@unisi.it</a> <a href="mailto:fabio.carraro@unisi.it">fabio.carraro@unisi.it</a> <a href="mailto:antonio.giordano@unisi.it">antonio.giordano@unisi.it</a> <a href="mailto:fabio.marra@unifi.it">fabio.marra@unifi.it</a>	UNISI UNISI UNISI UNISI UNISI UNISI UNIFI	M7.3.1, M7.3.2, M7.3.3	M1-36	UNISI, UNIFI
7	Sub-project 4 - Advanced methods for the tailored management of chronic diseases.	Innovative tailored management of melanoma brain metastases  Molecular characterization of the proangiogenic receptor CD93 and development of a neutralizing antibody to CD93 for antiangiogenic therapy.	Di Giacomo Anna Maria Orlandini Maurizio	<a href="mailto:annamaria.digiaco@unisi.it">annamaria.digiaco@unisi.it</a> <a href="mailto:maurizio.orlandini@unisi.it">maurizio.orlandini@unisi.it</a>	UNISI UNISI	M7.4.1, M7.4.2, M7.4.3	M1-36	UNISI
7	Sub-project 5 - Innovative models for management of infections caused by antibiotic-resistant bacteria.	Innovative models for management of infections caused by antibiotic-resistant bacteria Development and validation of clinical predictive models for identification of multi drug-resistant Gram-negative pathogens Multifunctional devices for the treatment of sepsis Multi-approach strategies to prevent/treat infections in the era of multi-drug resistance	Falciani Chiara Tumbarello Mario Pini Alessandro Batoni Giovanna	<a href="mailto:chiara.falciani@unisi.it">chiara.falciani@unisi.it</a> <a href="mailto:mario.tumbarello@unisi.it">mario.tumbarello@unisi.it</a> <a href="mailto:pinia@unisi.it">pinia@unisi.it</a> <a href="mailto:giovanna.batoni@unipi.it">giovanna.batoni@unipi.it</a>	UNISI UNISI UNISI UNIFI	M7.5.1, M7.5.2, M7.5.3	M1-36	UNISI, UNIFI