

PROGETTO PRIN 2022- 2022R74KBC “PSoriasis BIOMarkers identikit- PSOBIO Identikit”

Psoriasis is a common, complex, chronic autoimmune skin disease in which both genetic and environmental factors influence susceptibility. To date, no single therapy offers a definitive cure or real remission; however, it is documented that an appropriate nutritional intervention holds promise in its ability to reduce or prevent psoriasis symptoms (skin lesions).

In this context, miRNAs and metabolites associated with psoriasis have the potential to be a novel class of diagnostic biomarkers for the early detection of the disease and for monitoring the patient's response to dietary or pharmacological treatments. In particular, determining how circulating metabolites and miRNAs change during a diet-driven psoriasis remission is of paramount importance to gain a new layer of understanding of the molecular mechanisms driving the condition.

This joint project between the University of Naples Federico II and the CNR-Institute of Biomolecular Chemistry is aimed at applying a multi-omic approach to define a “molecular identikit of Psoriasis” by correlating the miRNome/metabolome with clinical parameters in response to an anti-inflammatory, gluten- and dairy-free nutritional plan.