

## Raman4Clinics – novel technology for clinical diagnostics

The Cost Action Raman4Clinics pools European expertise to step forward in the field of novel, label-free and rapid technologies based on a wide variety of Raman spectroscopies for the clinical diagnostics of body fluids, bacteria, cells and tissues. A tool to accomplish that goal enables medic to get more exact information in order for a quickly and targeted treat of diseases.

The COST Action creates a platform for scientific communication, exchange, collaboration and new research activities, combining the partners' expertise in technology, component, system and methodology development and medical application. As a result, novel technology portfolios for clinical diagnostics will emerge to the benefit of patients as well as to the economy.

International interdisciplinary networking opportunities are offered between scientists within biophotonics, chemometricians and physicians/clinicians. All participating research group are united in pursuing the goal of giving a major impetus in this vibrant field of research by aligning it to clinical requirements and application aspects (the unmet medical need) by means of COST as the best mechanism to progress the state-of-the-art.

In an ageing society age-related diseases are increasing. But also widespread illnesses like cancer, sepsis or stroke often enough become fatality. A faster diagnosis and individualized therapies would help to optimize treatments not only for the patients benefit but also to reduce costs.