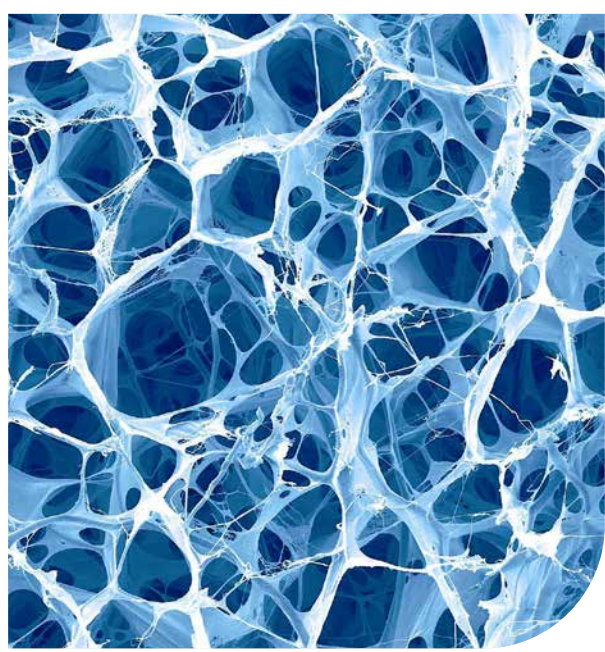
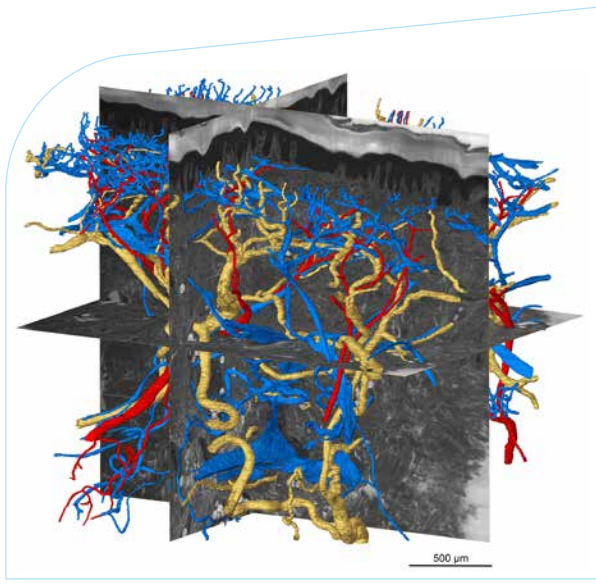




COREMED

Cooperative Centre for Regenerative Medicine





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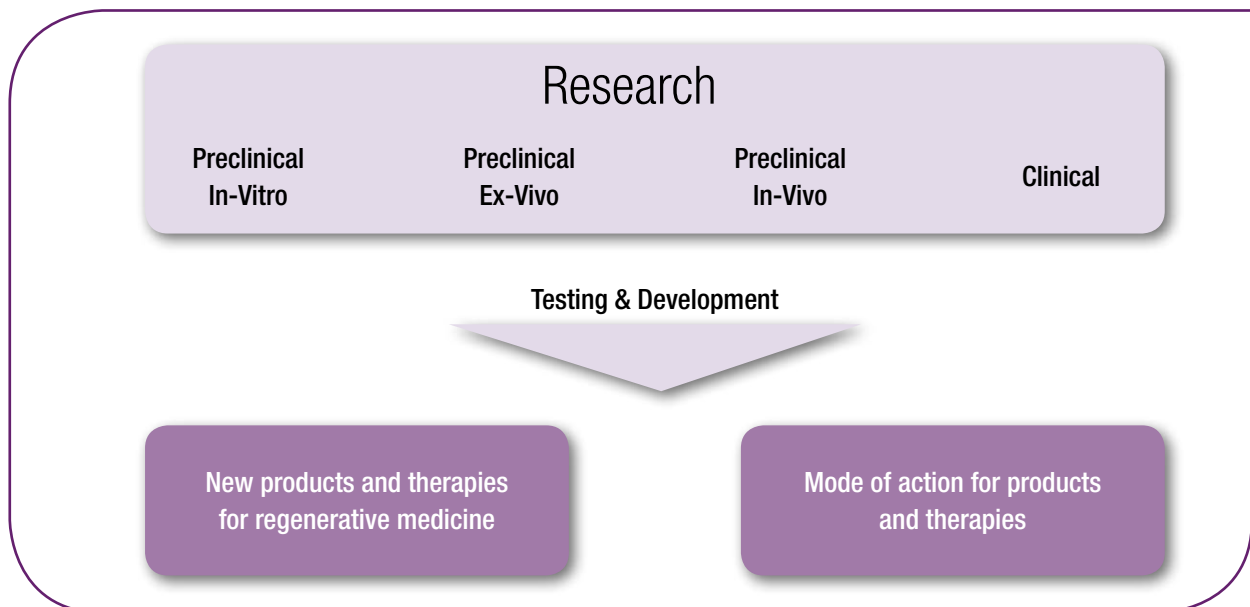
COREMED – Cooperative Centre for Regenerative Medicine

COREMED – Cooperative Centre for Regenerative Medicine incorporates basic medical research, preclinical and clinical research and offers comprehensive interdisciplinary solutions in R&D services e.g. for the medical technology and pharmaceutical industries. COREMED works on the continuous improvement of medical care in the field of regenerative medicine in Austria and other countries.



With respect to science and research, COREMED can rely on existing resources and cooperation due to its location in the Medical Science City Graz. A strong local network of scientific and economic facilities and players in the field of life sciences exists at the site – first and foremost: JOANNEUM RESEARCH

Institute HEALTH, Medical University of Graz, Karl-Franzens University of Graz, Graz University of Technology and CBmed GmbH. Moreover, COREMED relies on a close cooperation with national and international partners and companies.



Regenerative medicine is one of the fields in biomedicine with the strongest development dynamics and thus represents a hotspot in the field of medical research and development. Regenerative medicine deals with the restoration of dysfunctional cells, tissues or organs by stimulating the body's own regenerative repair processes (induced auto-regeneration)

or through biological replacement in the form of living cells or tissues specifically cultured in the laboratory (tissue engineering). The goal is always the same: to restore the original healthy and functional state of the affected tissue rather than merely replacing and repairing it temporarily. The motto of regenerative medicine is 'healing instead of just repairing'.

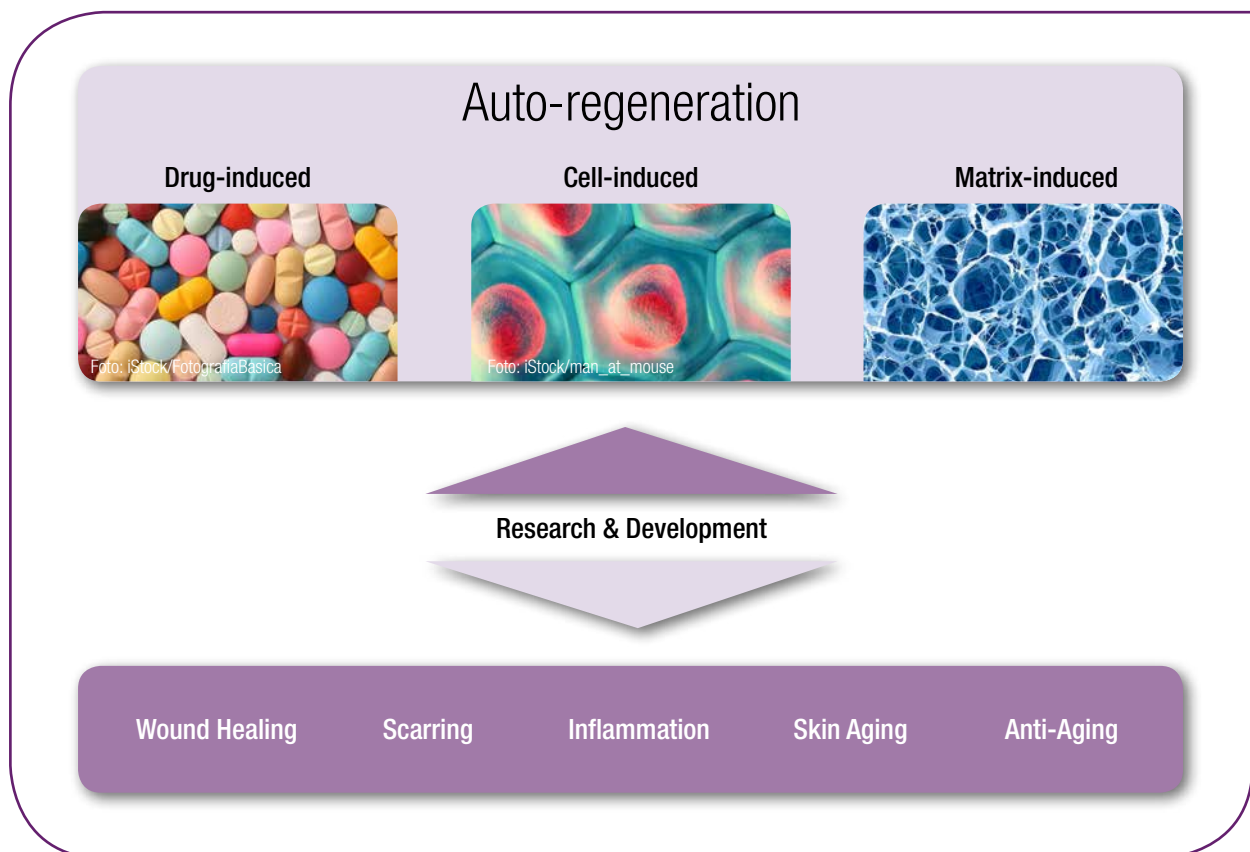
Scientific Excellence

COREMED offers scientific excellence for applied research on the highest level. Therefore, COREMED's strategy is to equally invest in basic research as well as in applied research. This commitment to selected basic research projects shall secure and enhance existing research excellence. Each project is carried out exclusively by top-level researchers and the results are published accordingly.



Research Areas

COREMED is engaged in medical research as well as related disciplines. COREMED has deliberately positioned itself as an interface between medicine and technology focusing mainly on the user's point of view and society's long-term benefit.



COREMED has placed a focus on two main research areas (Wound Healing & Scarring, Skin Aging & Anti-Aging) and one connecting topic (Inflammation) which are investigated in strong collaboration with a large network of experts from diverse scientific fields, national and international research facilities and industry partners.



Skin Aging and Anti-Aging

The skin is functionally the most versatile organ of the human body providing essential protecting and regulating mechanisms. The skin acts foremost as a barrier against negative environmental influences but it also regulates many aspects of physiology and immunology.

Skin aging is a complex and multifactorial process continuously leading to a loss of structural integrity and physical functions of the skin. Although skin is a relatively resilient organ, skin function is strongly influenced by aging. During intrinsic skin aging, skin structure and skin barrier are getting weaker mostly determined by hormonal status and genetic factors.

However, structural changes of the skin not only have visible effects such as wrinkles, but they also change essential skin functions followed by a higher risk of various skin diseases including skin tumors, traumatic damage and wound healing disorders.

COREMED has the goal to improve the understanding of fundamental processes in skin aging and to specifically influence these processes. With this knowledge COREMED supports the development of new products and therapies.

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Wound Healing and Scarring

Currently about 1–4% of the population of the western world suffers from chronic wounds. In Austria alone, about 200,000 to 300,000 people are affected.

As the number of chronic diseases is simultaneously increasing with the increase in life expectancy, the number of people suffering from chronic wounds will also rise significantly, subsequently leading to immense treatment and general health care costs. Most treatment concepts are limited to minimizing disease symptoms as healing is often not possible yet. This is the vital starting point for COREMED.

COREMED has the long-term goal to better understand wound healing processes and to identify new ways to support these processes. In collaborative research projects, COREMED provides the expertise to enable the development of new products and therapies and to demonstrate the effectiveness of already existing therapies.

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