



## Four Research Areas

The CECAD research focuses on the core research areas:

- Cellular stress signalling and dysfunction during aging
- Senescence of membranes and age-related impairment of pathogen defence
- Inflammation in aging-associated diseases
- Metabolic pathways in aging-associated diseases



## Early-stage scientists at CECAD

CECAD is dedicated to providing top quality education and specialised training at different stages of a researcher's career. The cluster therefore actively supports early-stage researchers and clinicians to promote their scientific independence and advance their careers.

CECAD combines excellent research conditions and state-of-the-art facilities with a practice-oriented training programme. The cluster offers its early-stage scientists the opportunity to establish an international network within the highly interdisciplinary field of aging-associated diseases and fosters intensive interactions between basic and clinically oriented scientists.



## Research

The Cologne Cluster of Excellence CECAD, funded through the German Research Foundation (Deutsche Forschungsgemeinschaft) within the Excellence Initiative, is the driving force bringing together researchers and clinicians of the University and the University Hospital of Cologne. The mission of CECAD Cologne is to unravel the molecular mechanisms underlying lifespan regulation and aging-associated diseases. Due to a generally increased life-expectancy and a thereby increased occurrence of aging-associated diseases, this is an area of great scientific and social relevance. CECAD's long-term objective is to develop novel therapeutic interventions.





## Cologne – A Vibrant Metropolis

Cologne, founded by the Romans and situated in the heart of Europe, is one of Germany’s largest cities. Due to its friendly and cosmopolitan atmosphere, life in Cologne is uncomplicated and vivacious with vibrant cultural attractions. Besides its historic heritage, a vast range of museums and restaurants, international events and the famous carnival season are the most striking features.

The internationally oriented University of Cologne, founded in the year 1388, is one of the oldest and biggest universities in Germany. About 13% of its 44.000 students come from abroad. Its attractiveness lies in the wide range of opportunities offered for education and scientific research. Located in one of Europe’s top growth areas for economic development and research, the University benefits from an active exchange with neighbouring institutions and regional industry.



### Contact us:

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### Research for Early-Stage Scientists

- Excellent research conditions in the unique field of aging-associated diseases
- State-of-the-art research facilities
- Interdisciplinary and international research environment
- Postdoctoral fellowships for outstanding researchers and clinicians
- Travel grants for attending international conferences
- Career advancement training
- Seminar series presenting international speakers
- Retreats to intensify interaction between CECAD researchers

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## CECAD Cologne Creating sustainable careers

