

# COMET PROJECT

## PI-SENS -PERSONALISED MEDICINE ENABLED BY INTELLIGENT SENSING SYSTEMS

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**Main location:** Krems (NÖ)

**Other locations:** Wiener Neustadt (NÖ), Linz (OÖ), Innsbruck (T)

**Thematic area:** life Sciences

(according to [www.ffg.at/comet/netzwerk](http://www.ffg.at/comet/netzwerk))



### Thematic focuses

- Electrochemical sensor development
- Optical sensor development
- Personalized medicine
- Biomarker identification

### Planned realisation and outcomes

It is the purpose of the COMET Project “Personalized Medicine Enabled by Intelligent Sensing Systems - PI-SENS” to contribute to addressing the rising national and international healthcare challenges. PI-SENS will provide essential know-how for innovative technologies to establish a personalized health treatment and preventive care system. The research activities of PI-SENS will thereby span the bridge from fundamental research to applied research and technology, prototyping development, and finally to innovative products by supporting its industrial cooperation partners. Due to the planned close cooperation with renowned national and international universities and research institutions, PI-SENS will contribute to premium education by offering young researchers a platform for conducting their bachelor, master and PhD theses, as well as attracting postdocs for an employment in the COMET project Initiative. PI-SENS project work will contribute to the development of biosensors for monitoring of biomarkers (in blood, sweat, urine and others), e-Nose devices for smell pattern identification and development of organic field-effect transistors for exogenic analysis, with the transition of the results into prototypes considering intelligent evaluation algorithms (AI). The operative project work will be conducted in three Areas of Expertise (Biomedical technologies, Analysis of Endogens and Analysis of Exogens) cooperating closely and thereby creating an added value compared to stand-alone projects. The consortium of PI-SENS features science at the highest level proven by a multitude of already conducted international and national funded projects in the field of sensing architecture development and an outstanding track record of the participating scientists.

## COMET FACTSHEET

### Selected company partners (max. 10):

1. CTBA Austria
2. Schülke
3. Bego
4. Sulis Polymer
5. E-DiagMetrics
6. Linxens
7. Biocrates
8. Oncnostics
9. Universam Diagnostics
10. HMNC

### Selected scientific partners (max. 5):

1. Johannes Kepler Universität Linz
2. Universität Innsbruck
3. Austrian Institute of Technology, AIT
4. University of Lille

**Duration:** 1.4.2024-31.3.2027

**Staff employment:** 12

**Management:** Prof. Dr. Christoph Kleber

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