

# COREMINE VITAE – ENABLING INFORMED HEALTH DECISIONS THROUGH AI, BIOINFORMATICS, AND PATIENT EMPOWERMENT

**PIC number:** 938247827

**Organization name:** Coremine Vitae AS

**Legal status:** SME

**Country:** Norway

**Website:** [www.coreminevitae.no](http://www.coreminevitae.no)

## MISSION

Coremine Vitae is a Norwegian medical information and technology company on a mission to bridge the gap between cutting-edge biomedical research and real-world health decisions. We deliver high-quality scientific content, decision support tools, and patient-centric solutions to advance personalized healthcare and clinical research.

## Summary of Capabilities

- **AI & GenAI Tools:** Retrieval Augmented Generation (RAG) systems, fine-tuned LLMs, and generative AI applied to biomedical datasets. Integration of GPT-4o-mini for explainable insights in biological networks.
- **Text Mining & NLP:** Advanced algorithms and proprietary platforms for literature mining, relationship extraction, and scientific trend analysis.
- **Scientific Content & Communication:** Deep experience in evidence-based medical writing, knowledge portal development, and patient education.
- **Bioinformatics & Systems Biology:** Expertise in multi-omics integration, drug-target prediction, mutation analysis, and peptide generation pipelines.
- **Clinical Decision Support:** More than 200 personalized reports delivered in cancer and other complex diseases.

## Core Technologies

- **Coremine Platform:** A modular platform used in Coremine Medical and legacy tools such as Coremine Pathways and Coremine Oncology integrating structured databases and literature mining into intuitive visual networks.
- **Data-to-Peptide Pipeline:** Translating genomic data into peptides for precision immunotherapy.
- **AI Training Framework:** Support for neural networks, autoencoders, and LLM fine-tuning for domain-specific medical tasks.

## Track Record of Projects

### Key Projects (PubGene / Coremine Vitae):

- *ANTISepctic* (2022–2025): Mass spec detection of antibiotic resistance (Eurostars)
- *Pathobody* (2021–2024): Proteogenomic antibody pipeline (Eurostars)
- *Coremine Vitae Project* (2021–2024): Personalized treatment options for cancer patients (RCN)
- *Glioma Strategies* (2016–2020): Bioinformatics and phosphoproteomics (Eurostars)
- *Precision Cancer Medicine Services* (2016–2018, Coordinator, Eurostars)
- *GenomeMiner* (2012–2015): Personalized oncology software (RCN)
- *MEMORIES* (2006-2009): Design of an audio semantic indexation system allowing information retrieval (EU)
- *DIAMONDS* (2004–2008): Systems biology integration (EU FP6)

### Recent Coremine Vitae Achievements:

- Launched **Hjernesvulstportalen** (Brain cancer patient portal) - Health literacy platform (2025-Foundation DAM)
- Participating in **7 EU consortia** focused on **GenAI, cancer, and SPD**
- Delivered **200+ personalized medicine reports** to date

### Areas of Interest

- Cancer & Autoimmune Diseases
- Neuroscience & Mental Health
- Antibiotic Resistance
- Personalized & Precision Medicine
- Health Literacy
- Climate & Health (emerging focus)

### Contact

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