

A Joint AI Call 2020 project on Safety and Security

Spectralligence

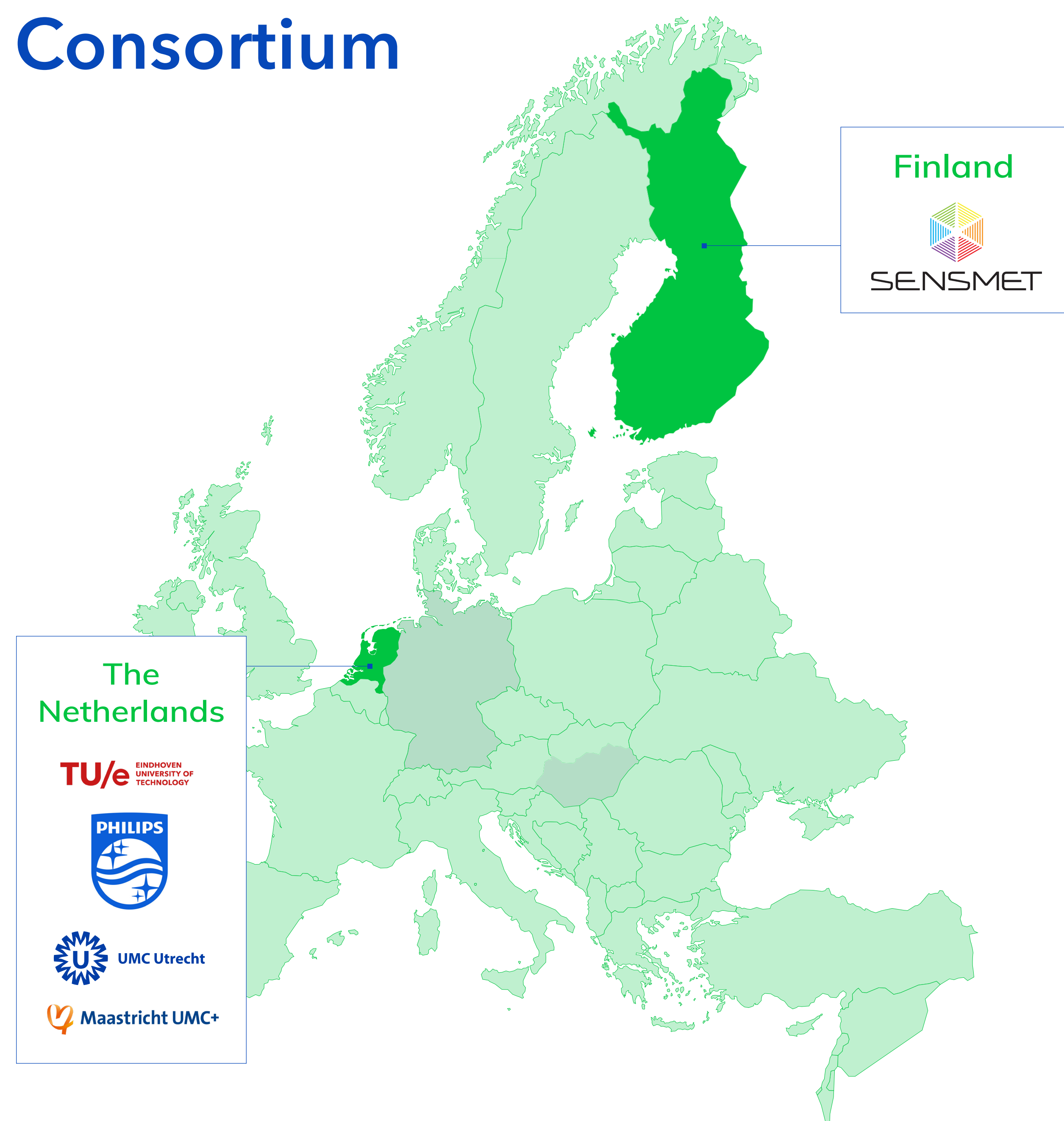
Miniaturisation and simplification in Molecular and Atomic Spectroscopy

Project summary

Molecular and Atomic Spectroscopy is a set of technologies using the electromagnetic spectrum to generate unique fingerprints of molecular structures, with applications in chemistry, medicine and environmental and safety services. Spectralligence will use AI to miniaturise and simplify Molecular and Atomic Spectroscopy technologies for greater affordability and usability by non-experts.



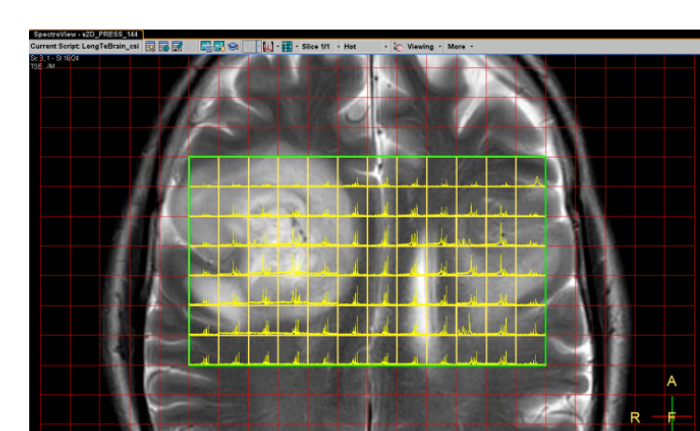
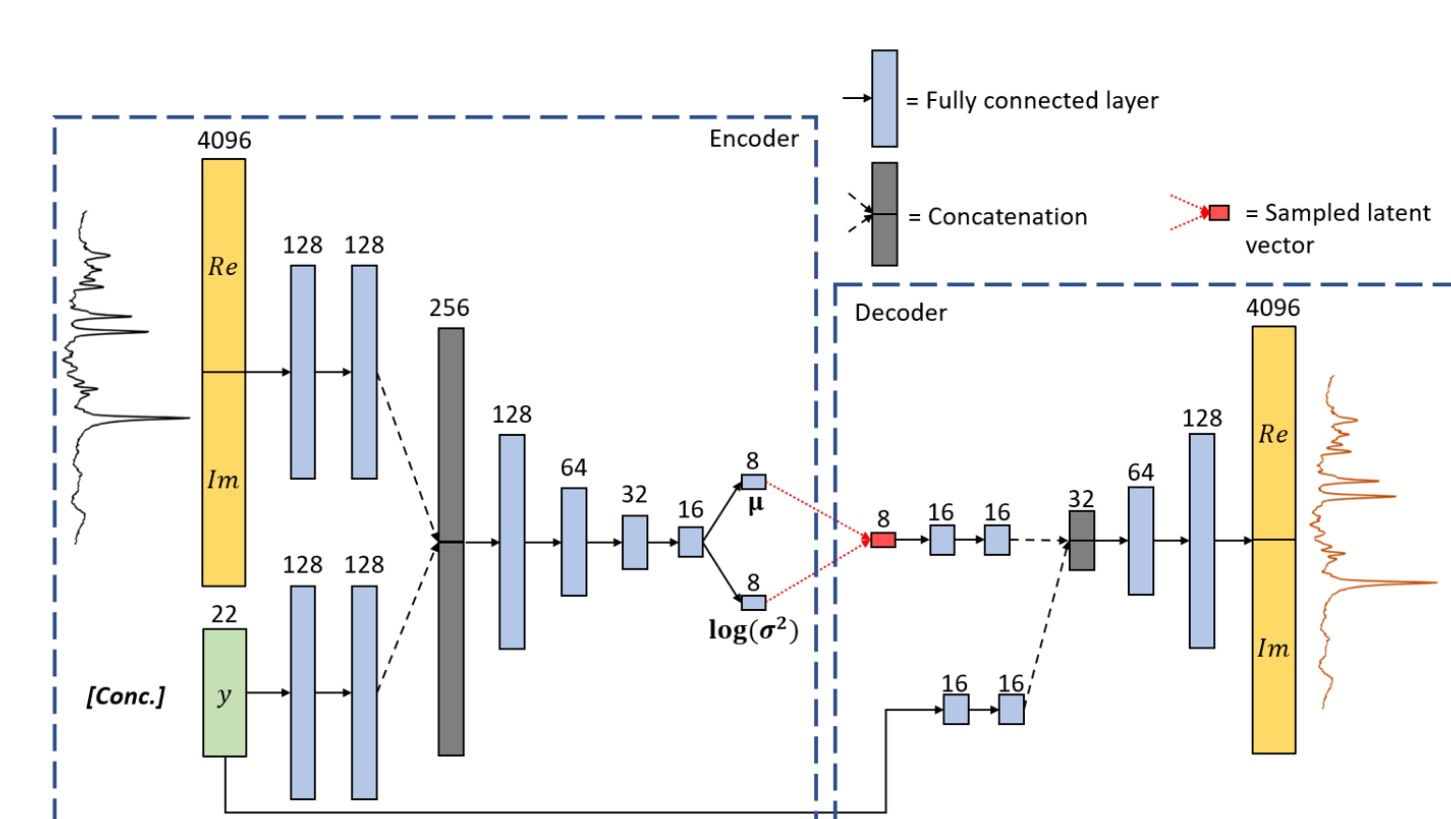
Consortium



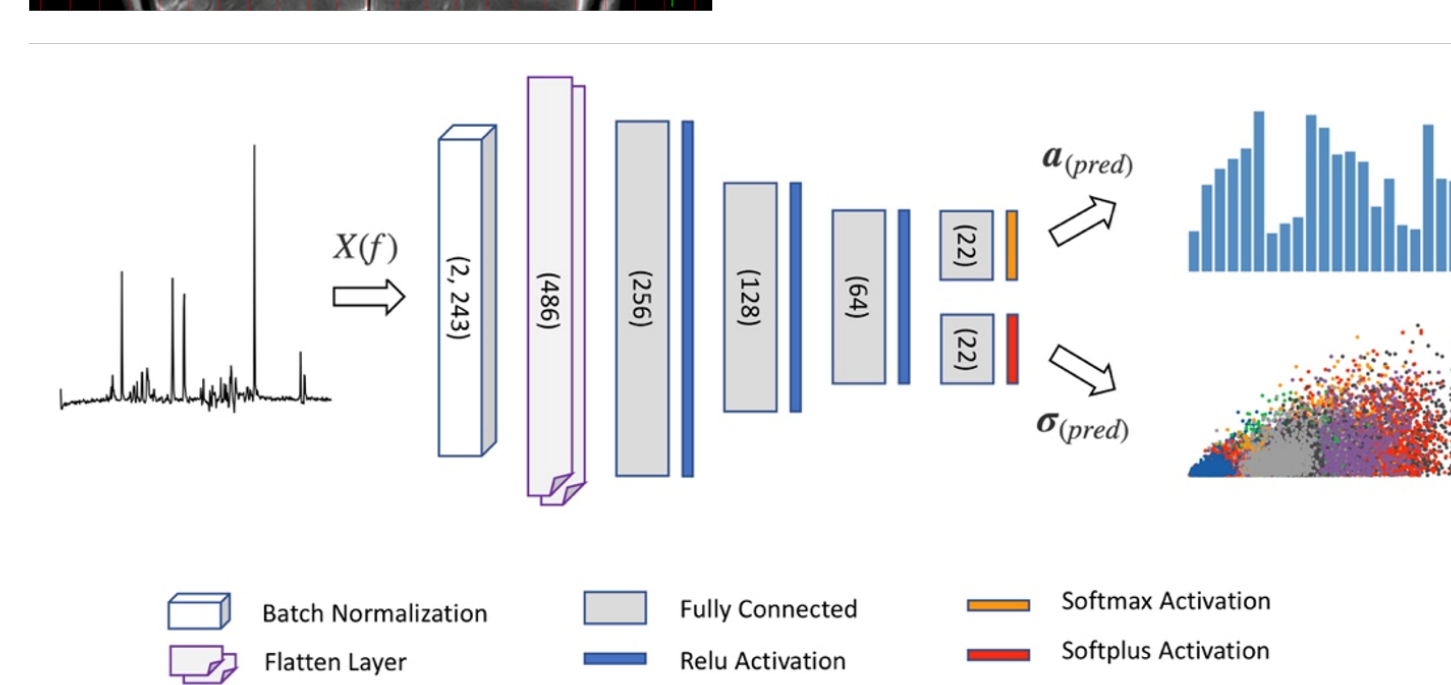
Project duration

November 2021 - October 2024

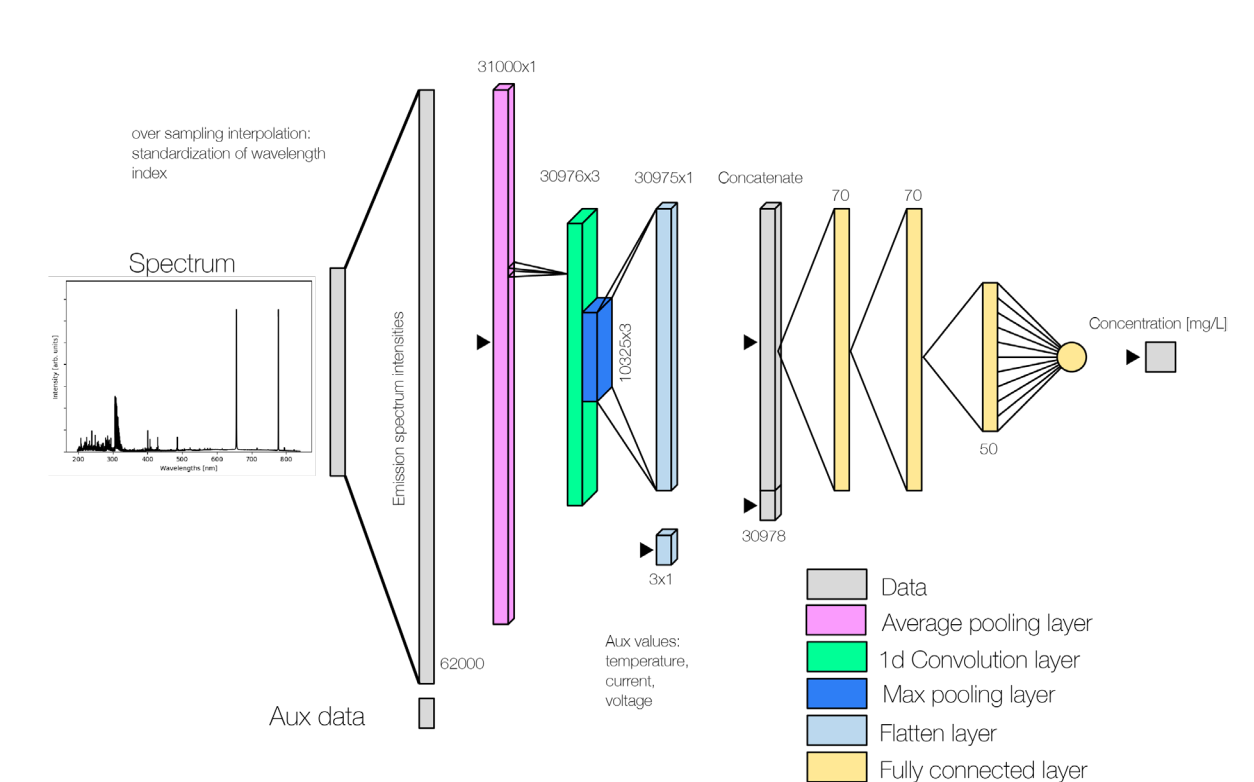
Medical



VAE simulated spectra to train quantification networks without relying on privacy sensitive data



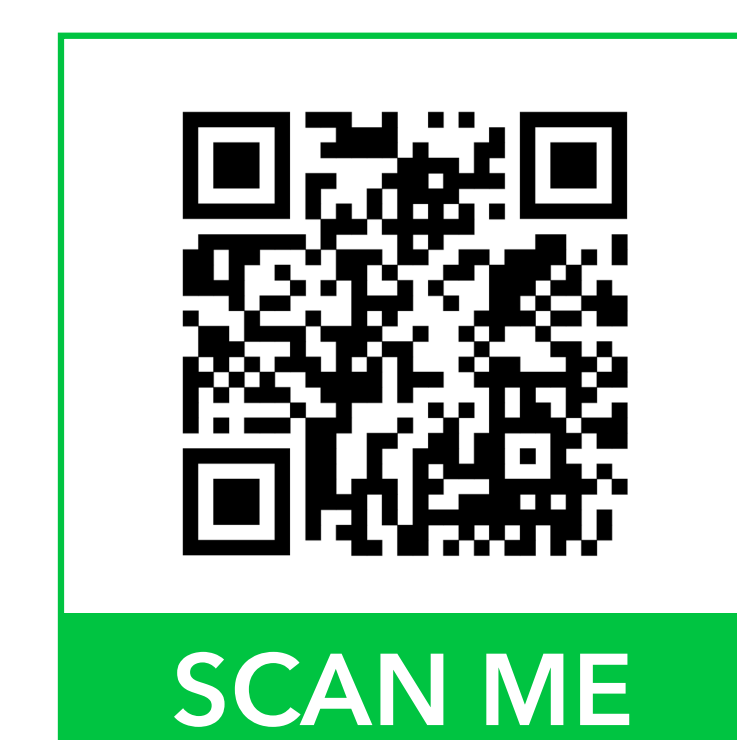
Environmental



Unique Selling Points

- > Single-click AI auto-tuning reduces calibration lead times from weeks to hours for AES water analysis
- > Fast and accurate clinical MR spectroscopy for the non-expert through AI/ML classification and quantification
- > AI/ML enabled denoising and super-resolution for clinical non-proton MRI (e.g. ²³Na)

More information



<https://spectralligence.eu/>



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