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ChemHouse, a research and development centre for chemometrics

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ChemHouse, a research group

Members

Around 50 experts, users, and students in chemometrics from public research institutes, R&D departments of industrial companies, NIR equipment suppliers, and scientific societies such as HelioSPIR

Objective

To help the community and partners to overcome methodological barriers and difficulties in the use of chemometrics and to go beyond the current limits

ChemProject



ChemHouse (centre of expertise)

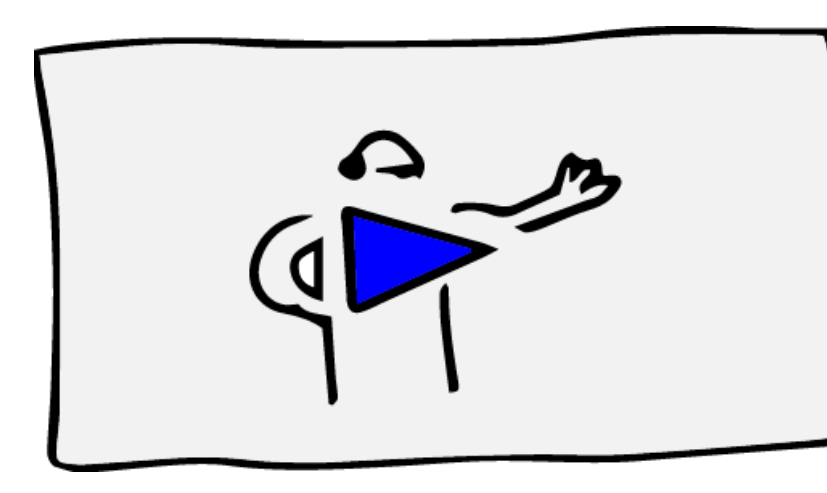
Internal scientific seminars (around 20 each year), on Near Infrared Spectroscopy data modeling, pre-processing of spectra, variable selection, variants of PLS modeling...

Hosting of students and researchers (for weeks to months, on average 9 months per year) to exchange on scientific subjects, and to improve their data processing skills.

Organization of ponctual workshops and chemometrics events such as ChemSchool (workshop in collaboration with the COST action Sensorfint) and HelioSPIR events.

Initiation and collaboration on research projects, to go deeper into data analysis by developing workflows, tools and algorithms:

- Participation in the setting up and implementation of national (Digitbio-MIMS) and international (Explore, AVITech) projects
- Co-author of scientific publications (more than 10 articles each year)



CheMOOCs

CheMOOCs (Massive Open Online Course (MOOC))

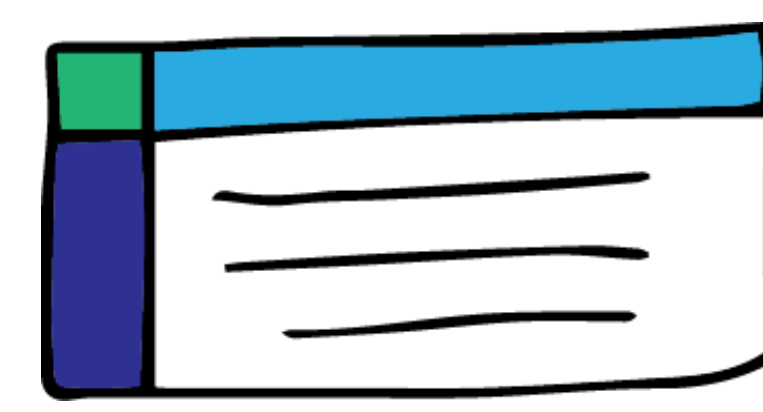
Annually followed by around 1500 people from over than 40 countries
28 training modules in 2 sessions: unsupervised and supervised methods.



ChemFlow

ChemFlow (Galaxy instance)

Application of conventional and more advanced chemometrics
Interactive graphs
Able to upload of various data types

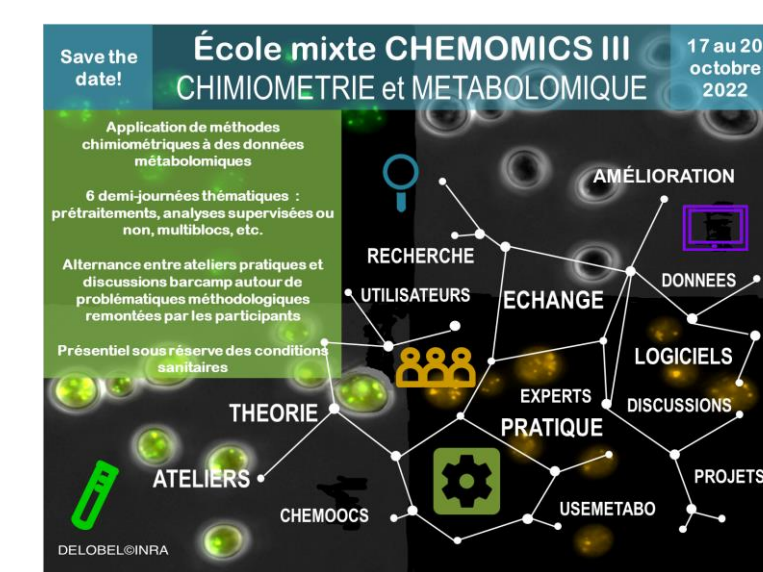


ChemData

ChemData (database)

Datasets from the MOOC, from public projects of the ChemHouse group, or from external repositories.

NEW



ChemOmics

ChemOmics (joint school)

Practical workshops and barcamp discussions between chemometricians and metabolomicians on methodological issues.

<https://chemproject.org/ChemHouse>

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Partenaires

