Biochem-Env, The environmental biochemistry for research
Nathalie Cheviron, Virginie Grondin, Sylvie Nelieu, Olivier Crouzet, Mickael Hedde, Christian Mougin

To cite this version:
Nathalie Cheviron, Virginie Grondin, Sylvie Nelieu, Olivier Crouzet, Mickael Hedde, et al.. Biochem-Env, The environmental biochemistry for research. BESFE 2014 (joint 2014 annual meeting British Ecological Society and Société Française d’Ecologie), Dec 2014, Lille, France. 2014. hal-02798056

HAL Id: hal-02798056
https://hal.inrae.fr/hal-02798056
Submitted on 5 Jun 2020

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L’archive ouverte pluridisciplinaire HAL, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d’enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.
BIOCHEM-ENV,
The environmental biochemistry for Research
Cheviron Nathalie, Grondin Virginie, Nélieu Sylvie, Olivier Crouzet, Mickael Hedde, and Mougin Christian
(1) Plateforme Biochem-Env, INRA, UR251 PESSAC, Route de St-Cyr, Versailles cedex
(2) INRA, UR251 PESSAC, Route de St-Cyr, Versailles cedex

GENERAL CONTEXT

The platform Biochem-Env is a technical platform supported by the project ANAEE-F and dedicated to the study of continental ecosystems, terrestrial and aquatic. The platform Biochem-Env represents a strategic service for analysing ecosystems (soil, sediment, macrofauna) in the field of environmental biochemistry. Its equipment allows an increase of the analytical throughput, based on robotics, as well as on standardized protocols.

INNOVATION FOR ENVIRONMENTAL BIOCHEMISTRY

Feasibility study, help for project building,

DATA ANALYSIS

SAMPLING

Soil and sediment enzymology

Respirometry

Biochemistry of organisms

PLFA measurements

Enzymatic activities of biogeochemical cycles

Lipidic indicators

Membrane components as a tool to differentiate sites or evidence stresses

EXEMPLES of APPLICATIONS

Carbon mineralisation and OM gradient after irrigation for 80 years

Biomarkers and metabolic indicators

AChE

Catalase

Lipids

Robotisation of experimentations

INQVATION FOR ENVIRONMENTAL BIOCHEMISTRY

Feasibility study, help for project building,