



ATMO ACCESS
Access to Atmospheric Research Facilities



Services provided by ChAMBR_e

Chamber for Atmospheric Modelling and Bio-Aerosol



This work has received funding from the European Union's Horizon 2020 research and innovation programme through the ATMO-ACCESS Integrating Activity under grant agreement No 101008004

atmo-access.eu

SERVICE 1 – Bioaerosol characterization	
TYPE OF SERVICE	Research service, technical service, innovation service
SERVICE DESCRIPTION	Measurement of bacteria viability vs. atmospheric and air quality conditions: injection of viable bacteria through different nebulizer, production in the chamber of different atmospheric conditions and composition (meteo-climatic, gaseous and aerosol species concentration), monitoring of the bacteria concentration via particle counters and WIBS, collection of viable bacteria through Andersen impactor, liquid impingers, petri dishes, filters. Incubation and counting, microscopic characterization. More details at: https://labfisa.ge.infn.it/index.php/chambre
ATMOSPHERE TYPE	Controlled atmosphere
TYPE OF ACCESS	Physical, remote
TARGET USERS	Academia, Business, Public sector
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	None
CONTACT	Paolo Prati (prati@ge.infn.it)
SERVICE 2 – Testing and characterization of bioaerosol monitors/sensors	
TYPE OF SERVICE	Research service, technical service, innovation service
SERVICE DESCRIPTION	Testing/characterization/calibration of bioaerosol on-line monitors/sensors: injection of different bacteria strains and measurement of the detectors response, testing of selection/identification algorithms, comparison with WIBS-NEO response, possibility to include fungi and pollens. More details at: https://labfisa.ge.infn.it/index.php/chambre
ATMOSPHERE TYPE	Controlled atmosphere
TYPE OF ACCESS	Physical, remote
TARGET USERS	Academia, Business, Public sector
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	None
CONTACT	Paolo Prati (prati@ge.infn.it)

SERVICE 3 – Measurement of aerosol optical properties

TYPE OF SERVICE	Research service, technical service, innovation service
SERVICE DESCRIPTION	Multi-wavelength on-line and off-line measurement of the optical properties (absorption and scattering) of atmospheric aerosols: injection of different aerosol species (soot, dust, salt, organic), modulation of the meteo-climatic conditions, on-line measurement by 3-lambda photoacoustics monitors (PAXs), OPS and SMPS, sampling on filters/impactors and off-line analyses by Multi Wavelength Absorbance Analyzer (MWWA) and two-lambda thermo-optical analysis. More details at: https://labfisa.ge.infn.it/index.php/chambre .
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TYPE OF ACCESS	Physical, remote
TARGET USERS	Academia, Business, Public sector
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	None
CONTACT	Paolo Prati (prati@ge.infn.it)

SERVICE 4 – Testing of samplers and gas/aerosol monitors

TYPE OF SERVICE	Research service, technical service, innovation service
SERVICE DESCRIPTION	Testing and calibration of aerosol samplers and aerosols/gas monitors (e.g. low-cost detectors): connection/introduction of the samplers/detectors to/in the chamber, production of different aerosol and gas species, comparison of the detectors response with those of the ChAMBRé reference equipment. More details at: https://labfisa.ge.infn.it/index.php/chambre
ATMOSPHERE TYPE	Controlled atmosphere
TYPE OF ACCESS	Physical, remote
TARGET USERS	Academia, Business, Public sector
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	None
CONTACT	Paolo Prati (prati@ge.infn.it)

SERVICE 5 – Design, organization and execution of custom experiments

TYPE OF SERVICE	Research service, technical service, innovation service
SERVICE DESCRIPTION	<p>Custom experiments on aerosol chemistry and physics: ChAMBRé is a multi-purpose facility connected to a laboratory fully equipped for aerosol sampling and characterization.</p> <p>Specific experiments/tests can be organized with the support of the ChAMBRé teams.</p> <p>Full description of the multi-purpose facility at https://labfisa.ge.infn.it/</p>
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TYPE OF ACCESS	Physical, remote
TARGET USERS	Academia, Business, Public sector
SERVICE STATUS	The service is available (operational and ready to be offered)
AVAILABILITY PERIOD	All year round
TIME CONSTRAINTS	None
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