

	Tuesday 22/08/2017	Wednesday 23/08	Thursday 24/08	Friday 25/08	Saturday 26/08
Morning	<p>9:30-10:00 Participants welcome</p> <p>10:00-10:30 Seminar presentation</p> <p>10:45-12:00 Aurélie Cébron "DNA stable Isotope Probing for investigating PAH-degrading bacteria in soil and rhizosphere"</p>	<p>9:00-10:15 Ellen Kandeler "Spatial and temporal variation of soil microbial communities under changing environment"</p> <p>10:15-10:45 <i>Coffee break</i></p> <p>10:45-12:00 Robin Duponnois "The Management of the Mycorrhizal Soil Infectivity: Ecological and Technical Approaches"</p>	<p>9:00-10:15 David Gillan "Paleomicrobiology to investigate copper resistance in soil"</p> <p>10:15-10:45 <i>Coffee break</i></p> <p>10:45-12:00 Kornelia Smalla "Tracing the transferable resistome of environmental bacteria"</p>	<p>9:00-10:15 Karin Pritsch "Does quantity beat quality? Structural and functional changes in ectomycorrhizal communities under severe drought"</p> <p>10:15-10:45 <i>Coffee break</i></p> <p>10:45-12:00 Corinne Leyval "Ecodynamic of pollutants in plant rhizosphere"</p>	<p>11:00-12:00 Visit at the "Ecole de Nancy" museum</p>
Afternoon	<p>14:00-18:00 Practical session: preparation of YOUR soil samples</p> <ul style="list-style-type: none"> - Soil DNA extractions - Cell extraction from soils (Nycodenz) - Soil suspensions preparation for enzymatic activities - Filling of MicroResp plates with soils 	<p>14:00-18:00 Practical session Group 1 "Real-time PCR for 16S rRNA, PAH-dioxygenase and heavy metal resistance gene number quantifications" Group 2 "Enzymatic activities (FDA, laccase) and Microresp"</p>	<p>14:00-18:00 Practical session Group 1 "Use of biosensors: signal detection using microspectroscopy and flow cytometer" Group 2: "Real-time PCR for 16S rRNA, PAH-dioxygenase and heavy metal resistance gene number quantifications"</p>	<p>14:00-17:00 Practical session "Genomics and transcriptomic of Tree/microbes interactions: from gene to biome."</p>	<p>16:00-19:00 Nancy, from middle age to 18th century, trip visit of the old part of the city.</p>

	Monday 28/08	Tuesday 29/08	Wednesday 30/08	Thursday 31/08
Morning	<p>9:00-10:15 Fabrice Martin-Laurent "Pesticide soil microbial ecotoxicology: where are we and where are we going? new perspectives to improve environmental risk assessment to preserve soil ecosystemic services."</p> <p>10:15-10:45 <i>Coffee break</i></p> <p>10:45-12:00 Catherine Santaella "Anthropogenic nanoparticles in soil microbial ecosystem and plant interaction: how risky is the gamble?"</p>	<p>9:00-10:15 Stéphane Vuillemin "Dissipation of chloroacetanilides in agricultural soil microcosms: insights from stable isotope fractionation and bacterial community response"</p> <p>10:15-10:45 <i>Coffee break</i></p> <p>10:45-11:20 Patrick Billard "Use of bacterial biosensor to assess rare earth elements availability and toxicity"</p> <p>11:25-12:00 Asfaw Zegeye "Bioreduction of Sb-substituted Goethite"</p>	<p>9:00-10:15 Michael Schloter « Land use intensity as driver for the soil microbiome in grassland- and forest soils"</p> <p>10:15-10:45 <i>Coffee break</i></p> <p>10:45-12:00 Pascal Simonet "Impact of different anthropic stress on soil microbiote"</p>	<p>9:00-10:15 Alain Brauman "Soil quality and soil functioning ? where is the link ?"</p> <p>10:15-10:45 <i>Coffee break</i></p> <p>10:45-12:00 Michel Chalot "What we can learn from microbial communities at phytomanaged soils"</p>
Afternoon	<p>14:00-18:00 Practical session Group 1 "Enzymatic activities (FDA, laccase) and Microresp" Group 2: "Use of biosensors: signal detection using microspectroscopy and flow cytometer"</p>	<p>14:00-17:00 Instrument demonstration Group 1 and 2 Confocal laser scanning microscopy Raman microspectroscopy Atomic force microscope (AFM)</p>	<p>14:00-18:00 Visit of the GISFI experimental site at Homécourt (54)</p>	<p>14:00-16:00 Analysis and interpretation of results of practical session and of your soils</p> <p>16:00-17:00 Participant evaluation of the seminar, conclusions, and closure</p>
		<p>19:00-23:00 Seminar social dinner</p>		