

MicroResp™ training

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| Tuesday 23 rd February | 8h30-9h00 | Welcome ceremony |
| | 9h00 12h | Theoretical part |
| | | <ul style="list-style-type: none"> - Alain BRAUMAN (IRD, LM LUSES) <ul style="list-style-type: none"> ▪ Introduction ▪ How and why it is important to measure biological activities in soil - Alexis Thoumazeau (LMI-IRD-CIRAD) <ul style="list-style-type: none"> ▪ How to measure in situ Soil CO₂ respiration - Monrawee PEERAWAT (LDD) <ul style="list-style-type: none"> ▪ Presentation of MicroResp™ technique - Pascal ALONGSO (IRD) <ul style="list-style-type: none"> ▪ Organization and schedule of the training |
| | 14h30 -15h30 | Microplate preparation - Gel (Practical 1h) |
| | | <ul style="list-style-type: none"> - Gel, color indicator, how pour microplate without bubble - Incubate overnight plate |
| | 15h30-17h00 | Soil and substrate preparation Calibration curve (Practical 1h00) |
| | <ul style="list-style-type: none"> - Filled the microplate, which substrate? prepare substrate solution, and antibiotic solution, design the soil microplate | |
| | 15h30-17h00 | Calibration curve (theory 30 min) |
| | | <ul style="list-style-type: none"> - Presentation of 2 methods of calibration |
| Wednesday 24 th February | 8h30-09h30 | Soil and substrate preparation (Practical 1h00) |
| | | <ul style="list-style-type: none"> - Soil humidity, add substrate ?, Antibiotic application - First Gel reading - Closing MicroResp system (soil microplate and gel microplate) |
| | 09h30-10h00 | Calibration curve (Practical 30 min) |
| | | <ul style="list-style-type: none"> - Preparation of the calibration |
| | 10h30 12h00 | Discussion and questions about the method |
| | 16h00-17h00 | Measures (Practical 30 minutes) |
| | | <ul style="list-style-type: none"> - 6h after closing MicroResp system or calibration curve preparation Final gel reading |
| Thursday 25 th February | 9h00 16h00 | Data analysis (Practical and theory) |
| | | <ul style="list-style-type: none"> - Theory on respiration analysis - Calculate the calibration equation - Analysis of MicroResp Data |

