Molecular basis of plant microbe interactions

Discipline	*Biology Formation Unit*
Title of the course	***Molecular basis of plant microbe interactions***
Code	*Code de l'UE*
Duration **Date start** **Date end**	*6 ECTS* *3rd semester of master (exact time schedule to be determined: September to December)* *158 hours corresponding to 48 in class + 110 self-study hours*
Course coordinators and contact details	*–Sylvie German-Retana (german@bordeaux.inra.fr)* *– Eric Gomès (eric.gomes@bordeaux.inra.fr)*
Other contact person	*–Florence Lartigaut* *–Florence.lartigaut@u-bordeaux.fr*
Mode of delivery	*–in-class lectures or seminars, inversed classes, work-group*
Level	*- Master*
ECTS credit points	*- Breakdown of in class and self-study hours are indicated eg 158 hours= 48h in class (12h lectures, 12h professional seminars (INRA-researchers), 22h group work, 2h exam); 110 hours self-study (50h private reading, 50h exam preparation, 10h group work preparation)*
Language	*English*
Description[1]	*- Learning objectives: strengthen the students' knowledge in the field of molecular basis of Plant Microbe Interactions.* *–Updated state of the art in the field will be presented through case studies on both model and crop plants.* *–The usefulness of the concepts and methodologies presented in the frame of the course for crop protection will be highlighted.*
Content <	*- Content is reflected in the module title* *–More precisely, different patho-systems (plant viruses, bacteria, fungi and oomycetes) and symbiotic interactions (mycorrhiza) will be studied.*
Methods	*Lectures, seminars, inverted class, scientific paper analysis and oral presentation.*
Assessment procedures	*Assessment methods specifically describe:* *- Written exam (2 hours)* *–Scientific paper group presentation* *Rules for failure: overall grade of 10/20 necessary to pass the exam.*
Prerequisites	*–1st year Master in biological science, plant biology, biotechnology or microbiology* *- Language prerequisites: scientific English*
Other informations	*-Maximum number of students: 17*

Please note that the number of places available may be limited for certain classes.

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