

ESCAPADE PEDAGOGIES TESTED DURING ALNARP SUMMER SCHOOL 2021

Type of pedagogy	Description of the task for students	Teachers in charge during ESCAPAdE summer school	Reference in MAPe
Self-presentation	Create a self-presentation on Padlet	Erik Alexandersson (SLU)	
Board game on host resistance	To discuss plant immune system with the help of a game	Elsa Ballini (MSA)	Learning by doing: The example of a board game
Computer simulation	Use the R package "landsepi" to find an optimal strategy to deploy major gene resistance	Loup Rimbaud (INRAE/ MSA)	Active learning: the example of using a simulator
Student debate	Learn about decisions on the approval and usage of pesticides from different points of view	Björn Klatt (Lund University)	Students' debate
Discussion-based teaching	Discussion: How do you plan for Microbe assisted breeding for your favorite crops? (Preceded by an introductory video)	Soledad Sacristan, UPM, Ramesh Vetukuri, SLU	

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Flipped classroom	Each of four groups prepares a short (~20 minutes) teaching unit - using a presentation tool of your own choice- on one of four topics: 1) resistance breeding with phenotypic selection; 2) resistance breeding using marker- and/or genomics assisted selection; 3) breeding for pest- and/or disease resistance using transgenics; 4) new breeding technologies for resistance breeding	Elena Benavente, UPM, David Collinge, UCPH, Hermann Bürstmayr, BOKU, Sjur Sandgrind, SLU, Laura Morales, BOKU	<u>The Flipped Classroom</u>
Interactive and online Jigsaw group activities	Group discussions in a jigsaw formation on how to breed for disease resistance in newly domesticated/orphan crops	Cecilia Hammenhag, SLU, Zbynek Polesny, CULS	<u>Interactive and online Jigsaw group activities</u>
Project-based learning	Students divided in 8 groups (identified by a logo on a bandana and a badge) try to solve an existing challenge for plant research.	PhD / postdoc tutors, non-academic advisors, academic supervisors (Dominique This, Julien Rose, Institut Agro, David Collinge, Copenhagen U.	<u>Project-based learning in applied plant sciences (ESCAPAdE project)</u>
Students' feedback on a postcard	Students write their best memories of the summer school and lessons they will bring back home on a postcard, sent two months later with an illustration from the summer school	Julien Rose, MSA; Mathilde Cathelain, MSA	<u>Teaching tip: the Postcards activity</u>