



WSL Biodiversity Center

Trait-Based Ecology: from theory to R tools

26 – 29 October 2021, Neuchâtel or online



Institut de biologie

Interuniversity Doctoral Program in Organismal Biology

Tuesday, October 26 th	
9:00	Welcome
9:15	Francesco de Bello and Lars Götzenberger Start: <i>Short intro to the course, Introduction of lecturers and students</i>
	Interactive: <i>Trait game (splitting into groups, providing data through Google sheets)</i>
11:00	Coffee break
11:20	Francesco de Bello Lecture: <i>Introduction to functional ecology and key definitions</i>
12:30	Lunch break
13:30	Lars Götzenberger Lecture: <i>Response of species and communities to the environment (filtering)</i>
	Lars Götzenberger Practical: <i>R material Chapter 4</i>
15:30	Coffee break
15:50	Lars Götzenberger Practical: <i>R material Chapter 5 CWM</i>
	Students: Reserved for students to present their data and projects
17:00	End



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Wednesday, October 27 th	
9:00	Welcome
9:15	Francesco de Bello and Lars Götzenberger Interactive: <i>Grime vs. Westoby</i> (1h: 20 min prep, 40 min discussion; students are grouped and instructed to read the paper at end of day 1)
	Francesco de Bello Lecture: <i>Ecology of differences and trait offs</i>
11:00	Coffee break
11:20	Francesco de Bello Practical: <i>R material Chapter 3</i>
12:30	Lunch break
13:30	Francesco de Bello Lecture: <i>Functional diversity indices (alpha, beta, gamma)</i>
	Francesco de Bello Practical: <i>R material Chapter 5 FD + results trait game</i>
15:30	Coffee break
15:50	Marco Moretti Lecture: <i>Response and effect trait framework across trophic levels (Chapters 9 and 10)</i>
17:00	End



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Thursday, October 28 th	
9:00	Welcome
9:15	Lars Götzenberger and Marco Moretti Practical: <i>R material Chapter 9</i>
	Lars Götzenberger and Marco Moretti Practical: <i>R material Chapter 10</i>
11:00	Coffee break
11:20	Francesco de Bello Lecture: <i>Intraspecific trait variability: biological relevance and quantification</i>
12:30	Lunch break
13:30	Francesco de Bello Practical: <i>R material Chapter 6</i>
	Lars Götzenberger Lecture: <i>Community assembly rules and null models</i>
15:30	Coffee break
15:50	Lars Götzenberger Practical: <i>R material Chapter 7</i>
17:00	End



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Friday, October 29 th	
9:00	Welcome
9:15	Lars Götzenberger and Marco Moretti Lecture: <i>Trait standards, data bases, and missing data</i>
	Lars Götzenberger and Marco Moretti Practical: <i>R material Chapter 2</i>
11:00	Coffee break
11:20	Lars Götzenberger and Marco Moretti Interactive: <i>Trait sampling game</i>
12:30	Lunch break
13:30	Lars Götzenberger Lecture: <i>Traits and phylogeny</i>
	Lars Götzenberger Practical: <i>R material Chapter 8</i>
15:30	Coffee break
15:50	Students: Presentations: Reserve time for students questions/presentations of their data
	Epilogue/Summary (all)
17:00	End