## Master in Life Sciences

A cooperation between BFH, FHNW, HES-SO, ZFH

Module	Genetic Resources and Grapevine Production		
Code	MLS_S13		
Degree Program	Master of Science in Life Sciences (MSLS)		
Cluster	Food		
Specialization	Viticulture & Enology		
ECTS Credits	4		
Workload	Fall term 120 h: Contact & Field work 75 lessons = 56 h; Self-study 64 h		
Module Coordinator	Name	Jean-Philippe Burdet	
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Lecturers	<ul> <li>Jean-Pl</li> </ul>	Jean-Philippe Burdet, CHANGINS, Viticulture and Enology	
		kus Rienth, CHANGINS, Viticulture and Enology	
	Guest le	ecturers	
Entry Requirements	Equivalent of a Bachelor of Science in Viticulture, Enology, or Agronomy		
Learning Outcomes	After completing the module students will be able to:		
and Competences	<ul> <li>Analyze the plant heritage of a large vineyard or an entire region</li> </ul>		
	<ul> <li>Evaluate the genetic variability within vineyard blocks, the plant's state of health, and the match of the rootstock- grape variety combination in relation t agronomic and enological aptitude</li> </ul>		
	Develop	o strategies of varietal selection in the long term in relation to mental pressure and climate changes	
Module Content	Application of observation and evaluation methods to obtain information about the grape vine concerning		
	<ul> <li>state of</li> </ul>	health and viruses	
	-	nic and enological suitability	
	_	variability, clones and rootstocks	
		ion potential to climate-physiology	
		ogy of vine	
	•	new information for interpretation, resulting in	
		g programs for crosses or tolerant varieties	
		d planting programs with polyclonal selections	
	Synthesis and strategies	analysis of the collected information and proposition of planting	
	<ul> <li>report write</li> </ul>	ling	

Teaching / Learning Methods	Lectures, field trips, literature study, case study. Active participation is requested		
Assessment of	Oral presentations (20%)		
Learning Outcome	Case study (40%)		
	Written exam (40%)		
Bibliography	Literature will be provided during the lectures		
Language	English		
Comments			
Last Update	11.06.2020 / JPB		