

Collecting, Handling and Long-Term Conservation of Seeds of Wild Plant Species

Hosted by National and Kapodistrian University of Athens 6th-10th June 2022

The course will bring together plant conservation practitioners and botanists to Athens to participate in a workshop on collecting, handling and long-term conservation of seeds of wild plant species. The purpose of this course is to equip participants with the skills required to conserve seeds of wild plant species.

Approach

The course will cover the main aspects of seed banking as a conservation tool with a focus on the Seed Conservation Standards agreed by the MSBP. It will combine theory sessions with practical field and laboratory sessions, to give you a chance to improve both your understanding and your practical skills.

Facilitators

Royal Botanic Gardens, Kew (RBG Kew) Ian Willey Millennium Seed Bank Country Project Officer Tel +44 7506247876, Email <u>i.willey@kew.org</u> Hanna Oldfield Training Coordinator Tel +44 7593011298, Email <u>h.oldfield@kew.org</u>

Contact at University of Athens Costas Thanos tel +30-210-7274655, fax +30-210-7274656 email <u>cthanos@biol.uoa.gr</u>

Learning facilities

The training course will take place at: National & Kapodistrian University of Athens School of Science Faculty of Biology Panepistimiopolis 15701 Athens – Greece



Day 1 Monday 6 th June			
Time	Programme	Led by	Venue
8:45 - 9:00	Registration, outstanding paperwork		Classroom
9:00 - 9:45	Welcome to the course/ Introduction to MSBP and seed conservation as conservation tool	Aisyah Faruk	Classroom
9:45 - 10:30	MSBP Seed Conservation Standards	Aisyah Faruk	Classroom
10:30 - 11:00	Tea break		
11:00 - 12:00	 Seeds and Storage Behaviour Categories of storage behaviour Screening for recalcitrant species 	Aisyah Faruk	Classroom
12:00-13:00	Lunch		
13:00 - 14:00	Seed development and maturity lecture and quiz	Hanna Oldfield	Classroom
14:00-15:00	Viability and longevity	Hanna Oldfield	Classroom
15:00-15:30	Tea break		
15:30-16:30	Viability monitoring – Theory	lan Willey	Classroom
16:30-17:30	 Viability monitoring – Practical Cut test for seed quality & oversow calculation Chipping Set up germination tests 	Frances Stanley	Lab

Day 1



Day 2 Tuesday 7 th June			
9:00-10:00	Planning and preparing a seed collecting trip	Aisyah Faruk	Classroom
	Legal collecting		
	Team logistics		
10:00-11:00	Seed collecting techniques	Ian Willey	classroom
	Risk assessments		
11:00-11:30	Break		
11:30 - 12:00	Making quality collection	Hanna Oldfield	Classroom
	 Assessing populations in the field 		
	Seed quality assessment		
12:00-13:00	Field data form & Pre-collection assessment	lan Willey	Classroom
13:00 - 14:00	Lunch		
14:00 - 15:00	Sampling genetic diversity lecture and exercise	lan Willey	Classroom
15:00-15:30	Break		
15:30-16:30	Seed Drying/Keeping Seeds Alive	Hanna Oldfield	Classroom
16:30 - 17:00	Preparation for the field day	lan Willey	Classroom

Day 3 Wednesday 8 th June			
8:00 - 9:00	Travel to field site		Field
9:00 - 11:00	Practical: Introduction to seed collecting	lan Willey	Field
	 Identifying target species 		
	Pre-collection assessments		
11:00 - 11:15	Break		
11:15 - 12:45	Practical: Making quality collections	lan Willey	Field
	Collection techniques		
	Field data		
	Herbarium specimens		
12:45-14:45	Lunch and travel (order TBD)		
14:45 - 15:15	Post-harvest handling	Hanna Oldfield	Classroom
	Ripening immature collections		
	Initial drying		
	Ambient conditions		
15:15 – 15:45	Measuring seed moisture using hygrometers	Aisyah Faruk	Lab
15:45-16:15	Break		
16:15-17:00	Introduction to Seed Processing/Review of the field day	Frances Stanley	Classroom



Day 4 Thursday 9 th June			
			Lab
9.00 - 11.00		Frances Stanley	Lau
	• (theory)		
	Cleaning Practical		
11:00 - 11:30	Tea break		
11:30 - 13:00	Quality assessments and counting of seeds	Frances Stanley	Lab
13:00 - 14:00	Lunch		
14:00 - 15:15	Viability monitoring practical: scoring	Frances Stanley	Lab
15:15 – 15:45	Tea break		
15:45 - 17:00	Germination lectures and activity	Ian Willey	Classroom
17:00-17:30	Follow up on seed collection made on field trip	Frances Stanley	Lab

Day 5 Friday 10 th June			
9:00 - 10:10	Database management, data sharing and data warehouse	Hanna Oldfield	Classroom
10:00-11:00	Seed bank and collections management	lan Willey	Classroom
11:00 - 11:30	Tea break		
11:30 - 12:00	Quiz	Hanna Oldfield	Classroom
12:00 - 13:30	Tour of the NKUA seed bank	Costas Thanos	
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13:30 - 14:30	Lunch		
14:30 - 16:00	Open Q&A session on course, feedback forms	all	
16:00 - 16:30	Tea break and evaluations		
16:30 - 17:00	Closing words and photo		
	Presentation of certificates?		

Facilitators:

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