

Dear WATSON colleagues,

Applications are open to the **Training School** on “*Water sampling, extraction, and isotopic analyses techniques for plant water use investigation*”, to be held in **Jülich, Germany**, from **May 22nd to 26th, 2023**, organized by WATSON WG2. This will be a ‘hands-on’, practical workshop, where attendees will learn the techniques by doing. Speakers and trainers are well-known experts in the field: *Adrià Barbeta, Matthias Beyer, Teresa Gimeno, Angelika Kübert, Natalie Orlowski, Iván Prieto, Youri Rothfuss, and Christine Stumpp*. The full program is attached below.

To apply, send a CV and a motivation letter at watson.ca19120@gmail.com.

Application deadline: March 31st, 2023.

The following criteria will be used to select the participants for this training school:

- *Diversity*: We aim to maximize diversity in terms of
 - *Geographic representation*: We welcome applicants from all countries belonging to the WATSON network, but the selection of applicants will maximize geographic diversity. Applications from people working in ITC (Inclusiveness-Target-Countries) are particularly encouraged.
 - *Gender*: The selection process will aim to have a gender-balanced list of participants.
- *Position (career stage)*: Preference will be given to early career researchers and professionals.
- *Previous experience*: Preference will be given to applicants with limited experience in the techniques taught in the course, and those who will directly benefit from these techniques in their research projects or jobs.
- *Research or professional profile*: Preference will be given to researchers or professionals working in ecohydrology, plant ecophysiology, and water management in the agricultural and forestry sectors, or closely related fields.

Publication of the results: April 7th, 2023.

The WATSON Cost Action will provide full reimbursement to travel to Jülich and living expenses for the selected applicants.

On behalf of our trainers and of the organization committee, we look forward to your applications!

The WATSON WG2

Day/Time	Monday 22 nd , 2023	Tuesday 23 rd , 2023	Wednesday 24 th , 2023	Thursday 25 th , 2023	Friday 26 th , 2023	
08:00-08:30	Participants and speakers arrive					
08:30-09:00	Welcome & Introduction	Field sampling <i>(4 hrs / 3 sites - alternatively)</i> <u>Group A:</u> Forest stand <u>Group B:</u> Grassland site <u>Group C:</u> Agricultural field	Water extraction <i>(4 hrs / 1 station)</i> <u>Group A:</u> CVD <u>Group B:</u> DVE & specific lecture <u>Group C:</u> C & specific lecture on Cavitron	Course 3 - Isotopic analysis techniques - Part 2 <i>(Adrià Barbeta)</i>	Course 5 - Introduction to process-based modeling <i>(Yuri Rothfuss)</i>	
09:00-10:00	Participants' elevator pitch			Coffee Break	Coffee Break	
10:00-10:30	Coffee Break					
10:30-12:30+ break (11:30)	Course 1 - Isotopes in ecohydrology <i>(Christine Stumpp)</i>				Course 4 - In-situ techniques <i>(Matthias Beyer & Angelika Kübert)</i>	Course 6 - Statistical modeling with SIAR <i>(Iván Prieto)</i>
12:30-13:30	Lunch	Lunch	Lunch	Lunch	Lunch & goodbye	
13:30-15:30 + break (14:30)	Course 2 - Sampling & extraction techniques <i>(Teresa Gimeno & Natalie Orłowski)</i>	Water extraction <i>(4 hrs / 1 station)</i> <u>Group A:</u> Cryogenic vacuum distillation - CVD <u>Group B:</u> Direct vapor equilibration – DVE / specific lecture on DVE <u>Group C:</u> Centrifugation – C / specific lecture on Cavitron	Water extraction <i>(4 hrs / 1 station)</i> <u>Group A:</u> CVD <u>Group B:</u> DVE & specific lecture <u>Group C:</u> C & specific lecture on Cavitron	Isotopic analysis / in-situ techniques <i>(4 hrs / 3 stations - alternatively)</i> <u>Group A:</u> Isotopic analysis <u>Group B:</u> In-situ plant chambers <u>Group C:</u> In-situ soil		
15:30-16:00	Coffee Break					
16:00-17:00	Course 3 - Isotopic analysis techniques - Part 1 <i>(Adrià Barbeta)</i>					
17:00-17:30	Details for field excursion					
				Diner in Jülich		

PROGRAM – 13-03-2023