Particle sizing
Dynamic Light Scattering

Do you want the best results when characterizing colloidal dispersions of nanoparticles?

Do you need to

- **Characterize particles in cell culture media or in blood?**
- **Ensure that your results are accurate and reproducible?**
- **Explain average size and polydispersity in dispersions and suspensions?**
- **Deal with agglomeration and prepare stable formulations?**

Join us on September 27-28, 2023. Registration deadline 01.09.2023

Swiss NanoAnalytics, BioNanomaterials Group

Adolphe Merkle Institute, Fribourg, Switzerland

Day 1   Lectures & demo, Pitfalls, Best practices

Fundamental principles, Sample quality, Method development, Quality control, Complementary and orthogonal experimental techniques

Day 2   Hands-on laboratory training

Individual Q&A slots, tailored solutions. Limited to max. 10 participants, *bring your own samples**
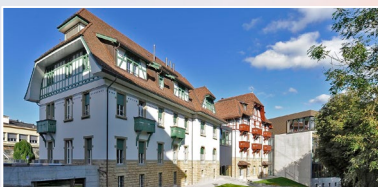
Fee: 800 CHF.- / day

Registration

or
Click here!

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https://www.ami.swiss/bionanomaterials
https://www.ami.swiss/en/nanoanalytics
https://instrumat.ch/meet-us-about/front-desk/
https://www.malvernpanalytical.com

Program Dynamic Light Scattering

Day 1 — Lectures & demo, Pitfalls, Best practices

Morning

9h – 9h30	Welcome & introduction
9h30 – 10h30	What is light scattering? What do you need to know for an analysis? The important parameters such as refractive index, viscosity and Temperature
10h30 – 11h	Coffee break
11h – 12h30	What is a colloidal system? How to prepare good samples for DLS measurements? What are agglomerates and aggregates? What is happening when using complex media (such as serum or cell culture media)?
12h30 – 14h	Lunch

Afternoon

14h – 15h30	How to interpret results of the measurements? How to analyze data from the correlation function and retrieve the size measurement?
15h30 – 16h	Coffee break
16h – 17h	How can we measure the concentration using DLS - Zetasizer Advance or particle tracking analysis NTA?
17h – 17h30	Summary
18h – 20h	Dinner

Day 2 — Hands-on laboratory training, Individual Q&A slots, tailored solutions

Limited to max. 10 participants, *bring your own samples**

9h – 12h30	Hands-on laboratory training
12h30 – 14h	Lunch

*Please, let us know ahead, so we can make the best out of it.

…and who are we?

Amélie Bazzoni, PhD in Materials Science and Engineering
Amélie is an experienced R&D and Quality Control engineer, specialized in the materials characterization.

François Maystre, PhD in Physics
François is the CEO of Instrumat AG, the Swiss distributor of Malvern Panalytical. He has profound experience in analytical instrumentation and materials characterization.

Adrien Bottarelli, MSc in Biology
Adrien is an application specialist at Instrumat AG with an extensive experience in various fields dedicated to nanomaterials characterization.

Sandor Balog, PhD in Physics
Sandor is a staff scientist fascinated by the theory and application of experimental techniques dedicated to particle system.