

Call for participants

Concerns: New training activity in Systems Biology/Medicine

Dear Colleague,

The Life Sciences are undergoing a revolution. Now that genomics and post-genomics enable us to *describe* biological processes comprehensively at various levels (e.g., genome, transcriptome, proteome, metabolome), a new paradigm has emerged: by integrating that data in computational frameworks, biological functions should now become understandable in terms of molecular players. This new paradigm is Systems Biology.

A great impact of Systems Biology is going to be felt in Medicine, as it finally addresses our, multi-factorial, diseases, such as cancer, metabolic syndrome and neurodegeneration, adequately and truly in terms of molecules engaged in networking. New combinations of existing drugs will now work because of individualization: one man, one model; one man, one therapy.

In similar ways industrial processes will become more predictable, precise, robust and competitive, also enabling synthetic biology.

The first Systems Biology and Systems Medicine School (1st SyBSyM Como School; www.complexcomolake.it/sybsymcomoschool) at the prestigious “Lake Como School of Advanced Studies” (www.complexcomolake.it) and under the auspices of the Italian Academy of Sciences, is a full immersion course. Hands-on sessions explicating Systems Biology will enable participants to tackle complex networks of life in an operational way. Lectures will underpin these. And discussions of the students’ research projects, will show how the life sciences may now get their acts together.

With its International lecturers, SyBSyM provides a stimulating environment to PhD students, post docs, early career researches and industry researchers, alike. Participants will have the opportunity to present their results as posters. Every poster will be discussed with leading scientists.

We are writing to ask you to identify excellent scientists and students that are keen on traveling this new avenue towards precision biotechnology and medicine.

With best regards,

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