

## Nanobioconvergence

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On the nanoscale, all the sciences merge into one. This is interesting and challenging, because the borders between the fields disappear, and knowledge transfer is not only possible across fields, it is a necessity. Because of the increasingly rising amount of knowledge in all science fields, it is impossible to train researchers in the converging sciences the way we use to train specialist scientists. Understanding rather than learning by heart becomes increasingly important. Our current school and university systems aim at educating the young in various specialist fields. To succeed and excel in converging science and technology on the nanoscale, new ways of teaching, new ways of doing research and new ways of publishing research results and accessing human knowledge are necessary – the new type of scientist will be able to transfer knowledge and connect the dots across fields.

The presentation will be given by two researchers/teachers with physics engineering as background. They will highlight the changes they experience in their respective circles (students, researchers, general population, policy makers, Europe and Asia) concerning successful dealing with nanoscience and nanotechnologies, and highlight the especially interesting convergence of the biological sciences with technology and engineering.

Since this new, emerging science is very powerful, accompanying technology assessment studies are necessary to inform fellow colleagues and the general public about possible ethical, legal and societal issues of such research and development. The presentation will also touch upon these important points.