

Nanosafety, Bio/Nano Interaction, Training

e.g. NMBP 13, 14, 15, FOF 01

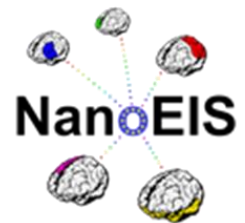
Thematic brokerage workshops

EU Brokerage Event on Kets in Horizon 2020

Strasbourg, 17th October 2017

University of Salzburg

- Public university, 18,000 students, *Allergy Cancer Bio/Nano Research Centre*
- Immunology, immunotoxicology, in vitro systems, bio/nano interaction, training



Safety

- Quick and robust readouts for cell stress, inflammation, allergy.
- LPS is ubiquitous but not trivial to measure (cryptic LPS).
- Immune tests have to be modified for dealing with real-life nanoparticles, i.e. mixtures.
- NP bind to allergens, leading to stronger allergic reactions.



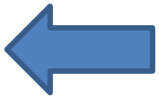
Cryptic LPS:
doi: 10.1038/srep44750

Allergens and NP:
doi: 10.1186/s12989-016-0113-0

Training

- Huge gap between university training contents and industrial job skill needs.
- Even worse for training on the job.
- Interested in FOF-01, *Skills needed for new manufacturing jobs?*

SKILLS	5 YEARS TIME
Health and safety issues	26
Regulation/standardization	23
Environment/disposal/recycling	23
Nanochemistry	23
Nanocoatings/smart surfaces	20
Nanobiotechnology	18
Nanostructures/composites	17
Nanomanufacturing	17
Marketing and communication	15
Pilot lines/scaling up processes	14
Modelling/simulation	12
Metrology	12
Nanoelectronics	11
Characterization techniques	10
Design	9



Industrial skill needs in 5 years time.

http://nanoeis.sbg.ac.at/sites/nanoeis.eu/files/downloads/NA_NOEIS%20D2.1%20Report%20on%20European%20industry%20needs.pdf

Contact details

Contact person	
Organisation	University of Salzburg
Adress	Hellbrunner Strasse 25, 5020 Salzburg, Austria
Phone nr	0043 664 8289270
E-mail	Albert.duschl@sbg.ac.at

Risk assessment, training needs