

Centre for NanoBioSafety and Sustainability: “because the world deserves better Nanotechnolgy”

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Abstract

The Centre for NanoBioSafety and Sustainability (CNBSS) is an initiative created by the Catalan Institute of Nanotechnology (ICN) and Leitat Technology Centre to answer the emerging needs to rationalise and assess the benefits & risks of new Nanotechnologies. In this context, by bridging the excellence of the two institutes toward Industry and Society, the CNBSS is supporting local and national companies to create Safe and Sustainable Nanotechnology in Spain.

The CNBSS-ICN is dedicated to provide high standard services such as high-standard characterisation of sample,^[1,2] providing well-designed shape/size/surface/inner-shell Nanoparticles (NPs)^[3-6] (Figure 1) and offering expertise in specify field of Nanotechnology. All those services are supported by the opinion of our experts and secure the use of the correct tool or NPs design for companies.

Those services are supported by a research focus on the development of new, safe and sustainable applications of nanoscience and nanotechnology in a broad spectrum of fields including environmental remediation, drug delivery, energy, novel semiconductors, construction, and food. This goal also includes development of metrology, as a fundamental tool needed to facilitate efficient standardisation and regulation, and the production of standards (courses on in-house designed NPs).

Moreover, promotion of the use of nanotechnology-based solutions in strategic sectors, via activities such as training (synthesis, characterization method, state-of-art of technology for targeted audience), education (design of small taller), and dissemination, and by making nanotechnology more available to society and industry is the key factor that integrates nanotechnology in our Society.^[7]

References

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Figures

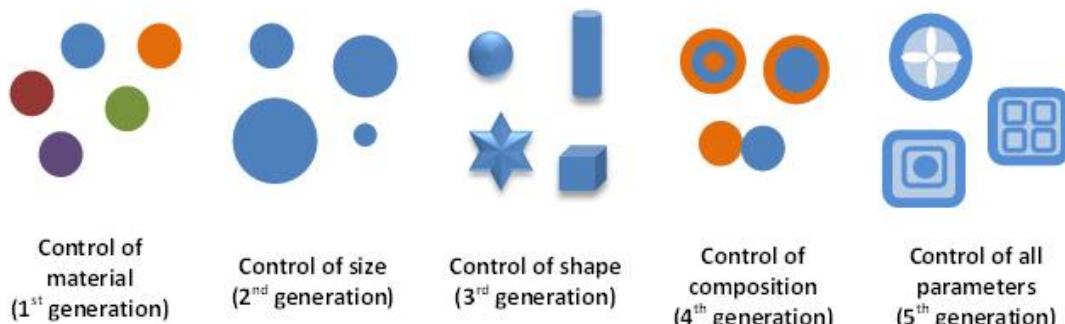


Figure 1: 5 generations of NPs.