

NANOBIOMATJND-02: JSU-NDSU Nanotech. & BioMaterials Workshop, Jackson & Fargo, USA, 2020



Machine Learning & EU Food Nanotechnology Regulation

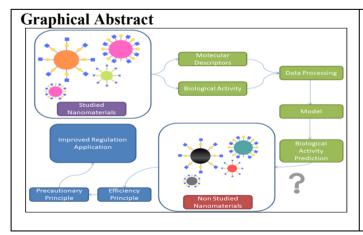
Ricardo Santana ^{1,2,3,4}*, Enrique Onieva ^{1,2}, Zulamita Zapata-Benabithe, Aliuska Duardo-Sanchez *,

¹DeustoTech-Fundacion Deusto, Avda. Universidades, 24, 48007, Bilbao, Spain.

²Faculty of Engineering, University of Deusto, Avda. Universidades, 24, 48007, Bilbao, Spain.

³Grupo de Investigación Sobre Nuevos Materiales, Universidad Pontificia Bolivariana, Circular 1° N° 70-01, Medellín, Colombia.

- ⁴Facultad de Ingenieria Agroindustrial, Universidad Pontificia Bolivariana UPB, 050031, Medellin, Colombia.
- ⁵ Facultad de Ingeniería Quimica, Universidad Pontificia Bolivariana UPB, 050031, Medellin, Colombia.
- ⁶ Department of Public Law, Law and the Human Genome Research Group, University of the Basque Country UPV/EHU, 48940, Leioa, Biscay, Spain.



Abstract. In a recent paper we analyzed in detail the principles of EU food and nanotechnology regulations perspectives for Machine Learning application towards safety issues analysis. In-depth review and discussion of the regulation opportunities to apply ML models of nanoparticles was presented involving EU foods nanotechnology regulation. It is concluded Machine Learning could improve the application of nanotechnology food regulation. ML can be applied on this area following the principles lined up by the standards of OECD, EU regulations and EFSA.