This presentation will focus on the successful launch of spin-off companies derived from groundbreaking bioconvergence technologies developed in academic environments, facilitated by fruitful cross-disciplinary collaborations. It will delve into how combining nanotechnology with cutting-edge biomaterials through interdisciplinary approaches is revolutionizing drug delivery systems, opening up new avenues for treating complex diseases. Furthermore, the talk will discuss state-of-the-art advancements in 3D printing technologies that enable the fabrication of ex vivo cell models for applications in tumor-on-a-chip and tissue engineering, across both medical and food technology domains. Special attention will be given to how these technological breakthroughs are shaping the future of personalized nanomedicine and precision medicine.