Theragnostics and Nanomedicine in Translational Research

이상명*
강원대학교
(sangmyung@kangwon.ac.kr*)

Several efforts have been invested in developing theragnostics, and these systems and strategies have contributed substantially to realizing the potential of personalized medicine. Moreover, the combination with nanotechnology can afford theragnostics to be dramatically advanced in translational research including bioimaging and drug delivery. Multifunctional nanoparticles are introduced in the respect of in-vitro and ex-vivo dual optical imaging of apoptosis and cancer stem cells. As translational research, the use of radiolabeled monoclonal antibody is described using the example of the radiopharmaceutical imaging and combination therapy with another monoclonal antibody or chemical therapeutic agents.