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I have worked as an Associate Professor at the Andong National University. I started my own research program on studying the benefits of plant-derived exosome-like nanovesicles. In fact, our lab demonstrated the beneficial effects of plant-derived nanovesicles against alcohol-or nonalcohol-induced intestinal barrier dysfunction and liver injury. The nanovesicles that our lab studied were isolated from yam, aloe, plum, pomegranate, apple, hemp, and ginseng. The nanovesicles isolated from edible plants turned out to be safe and effective in preventing or attenuating the symptoms of tissue injury caused by binge alcohol or nonalcoholic substances, including dextran sodium sulfate-mediated inflammatory bowel disease. Consequently, in 2019 to 2024, I have published more than 17 articles in peer-reviewed journals, Hepatology, Nature Communications, J Controlled Release, Antioxidants, Nutrients, J Med Food, etc.

I worked as a post-doc fellow at the NIAAA, during 2015-2018. I had published 16 articles with eight papers in high impact and/or solid peer-reviewed journals. These journals include: Journal of Hepatology, Pharmacology & Therapeutics, Redox Biology, Proc Natl Acad Sci USA, Scientific Reports, Hepatology Communications, etc. Some of her articles are selected as Faculty 1000 papers and featured as a subject of an Editorial paper.