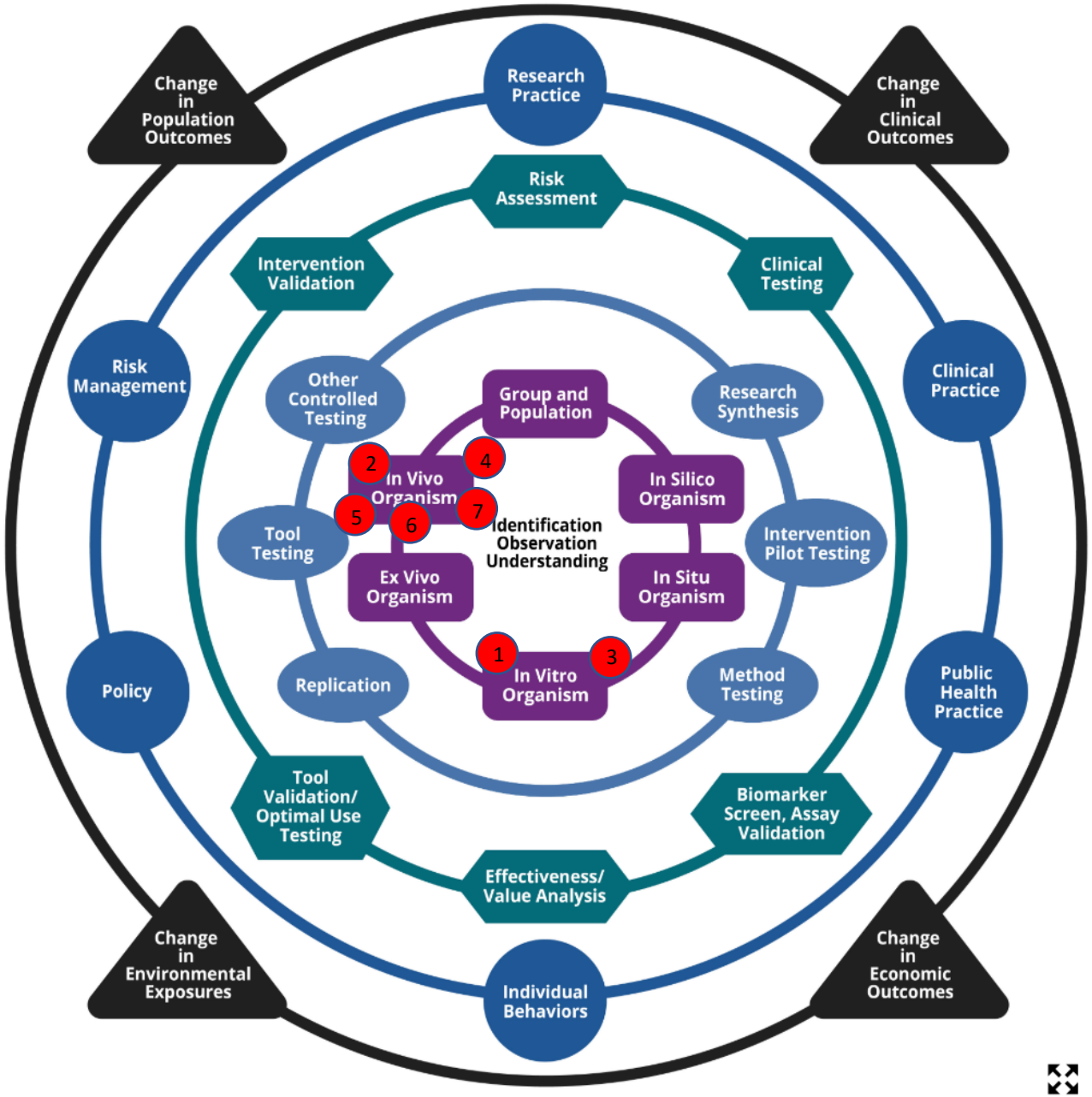
Translational Research Categories/Rings



Project 2

1. Cadmium exposure likely impairs olfaction by inhibiting p38 and JNK3 MAP kinases and disrupting neurogenesis in the subventricular zone. (Wang et al. 2017)
2. Cadmium impairs hippocampus-dependent learning and memory in mice and impairs olfaction. (Wang et al. 2018)
3. Cadmium induces apoptosis, inhibits proliferation, and impairs neuronal differentiation in cultured cells. (Wang et al. 2019)
4. Cadmium exposure reduced the number and impaired differentiation of adult-born hippocampal cells in vivo. (Wang et al. 2019)
5. Inducible and conditional activation of ERK5 rescues cadmium-induced impairments of adult hippocampal neurogenesis and hippocampus-dependent memory in mice. (Wang et al. 2020)
6. Inducible and conditional activation of ERK5 rescues mice from cadmium-induced olfactory memory deficits. (paper under revision)
7. Cadmium exposure persistently modulates the gut-liver axis in an Alzheimer's disease mouse model. (paper submitted)