

2016-20:

Enhanced Survivability of Responders in Radiologically Contaminated Environment

Operators in a radiation contaminated environment, as in the Fukushima disaster, need to be able to complete their mission while sustaining their operational capabilities. They will need to maintain speed of operations, with minimal attrition, within a dangerous and hazardous zone. This call would like to explore ways to protect operators so that they will be able to operate unencumbered in a radiation contaminated environment.

Possibilities include (but not limited to): (i) protective devices, (ii) prophylaxis measures and (iii) radiation proof-robots. Logistic efficiency is an important consideration (e.g. light-weight, low resource reliance, low maintenance and cost effective solutions, etc). While the use of off-label drugs and supplements may be considered, new drug development will not be considered.