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Nota di contenuto	1. Introduction (basic science, systems and analysis, manufacturing) -- 2. Grand challenges (threat reduction, preparation, situational awareness, threat neutralization and remediation) -- 3. Specific challenges (threat reduction, preparation-medical countermeasures, interdisciplinary and multidisciplinary research, situational awareness, threat neutralization and remediation) -- 4. Research directions (threat reduction, preparation, situational awareness, threat neutralization and remediation).