

## SOURCES AND BASIC THREATS OF BIOLOGICAL SAFETY.

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Biological safety of any state is connected with development of its public protection against biological weapons and opportunity to prevent bioterrorist attacks. That's why in modern social-economic and geo-political conditions, the problem of biological safety strengthening become significant, which is connected with migration process globalization, development of bio-technology and dramatically increased risk of pathogenic germ infections proliferation, which can be used as biological weapon. Despite of undertaken efforts by world community on full prohibition of biological weapon, its proliferation in the world still takes place.

Biology revolution during second and third millennium lead to development not only biotechnology but new achievements in medicine, agriculture and other fields of economy, but also created scientific and research preconditions for development of advanced biological means of mass destruction, that make it more attractive for achieving superiority and assigned targets:

- Ø Low developments costs, opportunity to create it by one small laboratory with two-three high qualified specialists biotechnologists.
- Ø Tremendous impact effect: one substance gram can contain from one till one hundreds quintillions ( $10^{18} - 10^{20}$ ) active pathogen molecules and in case if they belong to amplified RNA and DNA, each molecule getting to organism, will multiply and contaminate environment (the last one is its principal difference from chemical weapon).
- Ø Bypass of organism immunological barriers and specific vaccinations
- Ø Unusual clinic finding, hard diagnosis
- Ø Weakness of traditional medications and treatment methods

- Ø Lack of material destruction
- Ø Opportunity of tight-lipped developments
- Ø Opportunity of tight-lipped application
- Ø Opportunity of delayed effect
- Ø Opportunity of selective influence on specific population (by use of genetic, climatic and cultural specifications of race, nations and nationalities).

Above mentioned specifications create exclusively serious problems in problems solution connected with prevention to biological terrorism.

#### REFERENCES

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