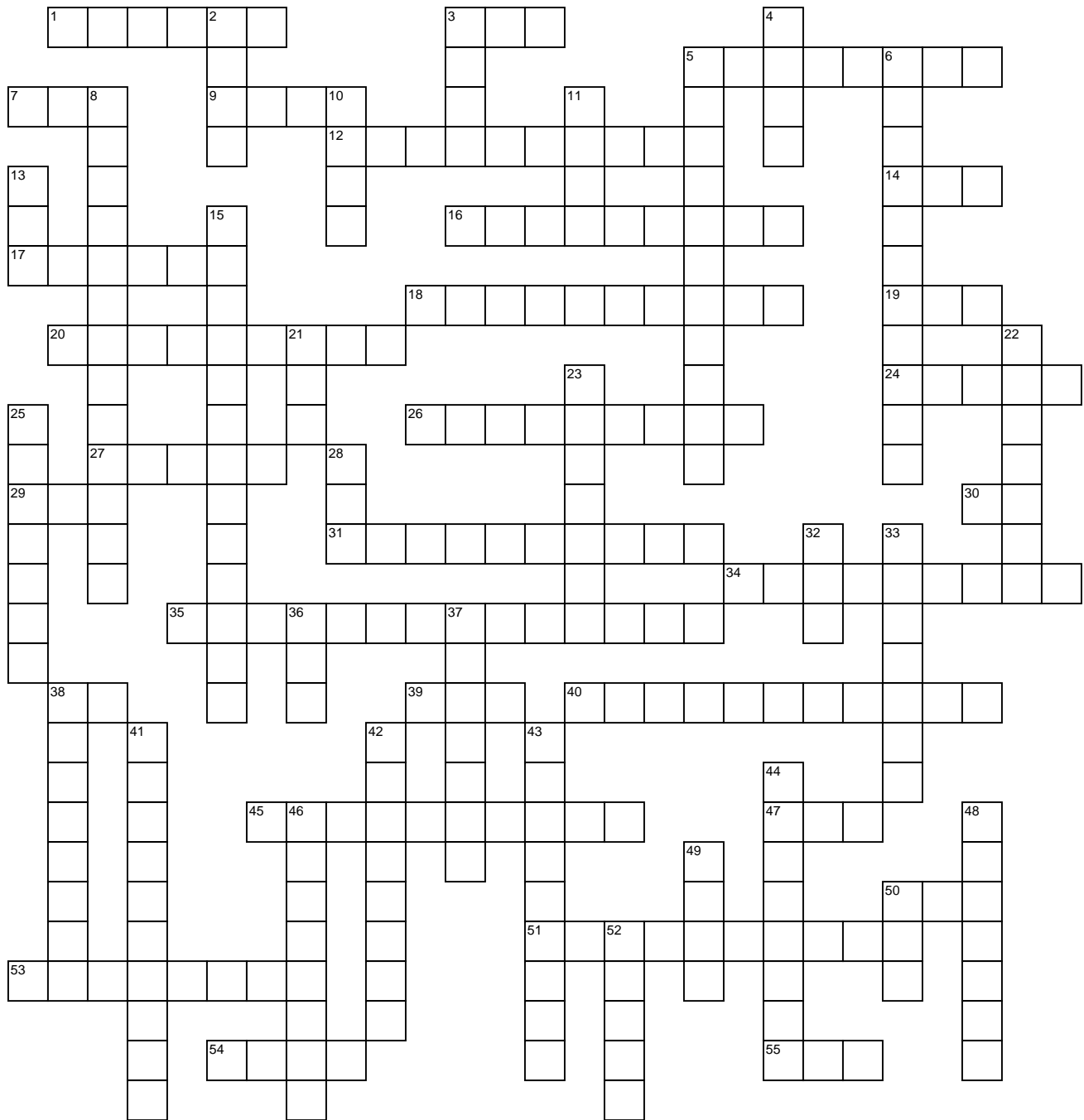


# Culture of Biosafety, Biosecurity, and Responsible Conduct



## ACROSS

- 1 A principle, plan, or course of action that the Executive branch of the Federal Government can establish it through the use of both regulations and guidance documents
- 3 Biosafety cabinet
- 5 Systematic investigation aimed at the discovery or interpretation of facts, revisions of accepted theories or laws in the light of new facts, or practical application of such new or revised theories or laws, including the processes of experimentation, development, testing, and evaluation
- 7 Security Risk Assessment
- 9 Recombinant DNA
- 12 Such agents include any microorganism (including, but not limited to, bacteria, viruses, fungi, rickettsiae, or protozoa), or infectious substance, or any naturally occurring, bioengineered, or synthesized component of any such microorganism or infectious substance, capable of causing death, disease, or other biological malfunction in a human, an animal, a plant, or another living organism; deterioration of food, water, equipment, supplies, or material of any kind; or deleterious alteration of the environment
- 14 Presidential Policy Directive
- 16 "biological" and "hazard" combined
- 17 Public Health Emergency Medical Countermeasures Enterprise
- 18 A rule based on a statute
- 19 Select agent regulations
- 20 The ethics of medical and biological research
- 24 A type of research that is meant to increase our scientific knowledge base with regard to certain phenomena or behavior
- 26 The application of combinations of laboratory practices and procedures, laboratory facilities, safety equipment, and appropriate occupational health programs when working with potentially infectious microorganisms and other biohazards
- 27 The toxic material or product of plants, animals, microorganisms (including, but not limited to, bacteria, viruses, fungi, rickettsiae, or protozoa), or infectious substances, or a recombinant or synthesized molecule, whatever their origin and method of production, and includes any poisonous substance or biological product that may be engineered as a result of biotechnology, produced by a living organism; or any poisonous isomer or biological product, homolog, or derivative of such a substance
- 29 An infection resulting from exposure to an infectious agent in a laboratory
- 30 Responsible Official
- 31 When applied to risk, it is a process used to identify the hazardous characteristics of a known infectious agent or potentially infectious agent or material, the activities that can result in exposure to such an agent, the likelihood that such exposure will cause a laboratory-acquired infection (LAI), and the probable consequences of such an infection
- 34 The Biosafety Review .... or a group of individuals affiliated with a facility whose functions typically extend beyond those of the "institutional biosafety committee" (IBC) as described in the NIH Guidelines
- 35 For all high and maximum containment facilities, it refers to the physical containment barriers in a facility such as contained dressing and shower rooms, sealed service penetrations, specialized doors, entry and exit avenues to prevent cross-contamination, specialized air handling systems for contamination control, personal protective equipment, biosafety cabinets, etc.
- 38 The individual designated by a research entity to direct a project or program, and who is responsible to the entity for the scientific and technical direction of that project or program
- 39 Specialized clothing or equipment worn by an employee for protection against a hazard
- 40 The protection of hazardous biological agents, including toxins, from loss, theft, diversion, or intentional misuse
- 45 The effective ... of risks posed by working with hazardous biological agents in laboratories; it includes a range of practices and procedures to ensure the biosecurity, biosafety, and biocontainment of high-consequence pathogens
- 47 A body of rules of conduct of binding legal force and effect, for instance the Public Health Security and Bioterrorism Preparedness and Response Act of 2002

- 50 Biosafety level
- 51 Likely to spread infection
- 53 A laboratory event that may include exposure of staff or the public to an infectious, potentially infectious, or zoonotic agent; environmental release of a biological hazard; escape of infected animals or vectors; spill of a biohazard outside of a primary containment device; loss or theft of biohazardous agents and other loss of containment; or equipment failure in conjunction with a biohazard (e.g., centrifuge accident) that may lead to a release of a hazardous agent within the laboratory environment or outside the laboratory environment
- 54 National Plant Diagnostic Network
- 55 Laboratory Response Network

## DOWN

- 2 Chemical, biological, radiological, and nuclear
- 3 Biosafety in Microbiological and Biomedical Laboratories
- 4 Biological Select Agents and Toxins
- 5 An assurance that individuals with access to dangerous pathogens are trustworthy, reliable, and physically and mentally competent
- 6 This type of conduct in research is simply good citizenship applied to professional life
- 8 An objective assessment of an institution's biosafety/biocontainment or biorisk management program by an independent body
- 10 Designations of laboratories for work with biohazards used in a vivarium that include zoonotic or human pathogens
- 11 When referring to containment is BSL-3
- 13 Select Agents Program
- 15 Validating the expertise and credentials of an individual or an engineering control and in some cases a laboratory facility
- 21 Institutional Biosafety Committee
- 22 A microscopic organism, such as a bacterium, fungus, protozoan, or virus
- 23 When referring to containment is BSL-4
- 25 An assumed truth which is part of the organizational culture (plural)
- 28 Deoxyribonucleic acid
- 32 Subject Matter Expert
- 33 The combination of the probability of the occurrence of harm and the severity of that harm where the source of harm is a biological agent or toxin (adapted from ISO/IEC Guide 51:1999)
- 36 Code of Federal Regulations
- 37 ... biosafety and biocontainment research - Research designed to generate science-based practices and procedures, engineering controls, personal protective equipment, and risk-assessment methodologies necessary to optimize the safety of research facilities; and to keep safety equipment, practices, and procedures up to date
- 38 A microorganism (including bacteria, viruses, rickettsiae, parasites, fungi) or other agent, such as a proteinaceous infectious particle (prion) that can cause disease in humans, animals, or plants
- 41 Standards or principles written by an organization to assist in the effectiveness of an operation, or to recommend a course of action
- 42 The action of teaching someone a particular skill or type of behavior
- 43 The process of a multi-tiered, often-overlapping system-from principal investigators at individual laboratories to agencies of the Federal Government-seeking to ensure the safety of biological laboratories and their activities through compliance with existing laws, regulations, policies, standards, and guidelines on biosafety and biocontainment
- 44 A type of laboratory where diagnostic or other screening procedures are performed on blood or other potentially infectious materials
- 46 A manner of thinking, feeling, or behaving that reflects a state of mind or disposition and is fundamental to the culture of biosafety, biosecurity, and responsible conduct
- 48 An assembly of beliefs, attitudes, and patterns of behavior of individuals and organizations that can support, complement or enhance operating procedures, rules, and practices as well as professional standards and ethics designed to prevent the loss, theft, misuse, diversion, of biological agents, related materials, technology or equipment, and the unintentional or intentional exposure to (or release of) biological agents.
- 49 National Registry of Certified Microbiologists
- 50 Biosafety officer or biological safety officer
- 52 Federal Experts Security Advisory Panel

# Culture of Biosafety, Biosecurity, and Responsible Conduct

Solution:

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