**Agent Summary: Bloodborne Pathogens and Other Potentially Infectious Materials**

**Agent Information**

* Bloodborne pathogens (BBP) are pathogenic organisms that are present in human blood (or its components) and can cause disease in humans, including but not limited to human immunodeficiency virus (HIV), hepatitis B virus (HBV), hepatitis B virus (HCV), human papillomavirus (HPV), cytomegalovirus (CMV), human T-cell lymphotropic virus (HTLV), Epstein-Barr virus (EBV) and *Mycobacterium tuberculosis* (in lung tissue).
* Other potentially infectious material (OPIM), are agents that may harbor bloodborne pathogens, including:
* human body fluids: semen, vaginal secretions, cerebrospinal fluid, synovial fluid, pleural fluid, pericardial fluid, peritoneal fluid, amniotic fluid, saliva in dental procedures
* any human body fluid that is visibly contaminated with blood, and all body fluids in situations where it is difficult or impossible to differentiate between body fluids
* any unfixed tissue or organ (other than intact skin) from a human (living or dead)
* all primary human cell explants from tissues and subsequent in vitro passages of human tissue explant cultures (i.e., all human primary and cultured/immortalized cell lines)
* BBP-containing cell or tissue cultures, organ cultures, and BBP-containing culture medium or other solutions
* blood, organs, or other tissues from experimental animals infected with BBP (e.g., humanized mice infected with HIV) or experimental animals into which other BBP or OPIM have been introduced, including human-derived cells or subcellular components
* Nonhuman primate-derived materials, such as those described above for humans, may also be considered to be OPIM because they may harbor agents that can infect humans.
* Workers may be exposed to bloodborne pathogens through routine handling or manipulation of primary or immortalized human cell lines or direct exposure to blood or body fluids by any route including needle inoculation, animal bites and scratches, splashes, accidental ingestion, mucous membrane contamination, contaminated caging and equipment, or infectious aerosols.
* All of the agents described above require, at minimum, Biosafety Level 2 (BSL2) containment.
* Animals into which any of the above agents have been introduced require, at minimum, ABSL2 containment.
* Use personal protective equipment (PPE) as described in the associated SOP 2.0.

**References:**

* [Occupational Safety and Health Administration (OSHA) Standard 29 CFR 1910.1030. United States Department of Labor. 2017](https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1030).
* [US Department of Labor. Occupational exposure to bloodborne pathogens. Final Rule. Standard interpretations: applicability of 1910.1030 to established human cell lines. June 24, 1994](https://www.osha.gov/laws-regs/standardinterpretations/1994-06-21).
* [Biosafety in Microbiological and Biomedical Laboratories-6th Edition (BMBL 6). U.S. Department of Health and Human Services, CDC, NIH](https://www.cdc.gov/labs/pdf/CDC-BiosafetyMicrobiologicalBiomedicalLaboratories-2020-P.pdf)
* [Identifying Infectious Hazards Associated with the Use of Nonhuman Primates in Research. Chapter 3*. In Occupational Health and Safety in the Care and Use of Nonhuman Primates.* Committee on Occupational Health and Safety in the Care and Use of Nonhuman Primates, National Research Council. 2003](https://www.ncbi.nlm.nih.gov/books/NBK43451/pdf/Bookshelf_NBK43451.pdf).

Enter the following information:

1. Name of the Principle Investigator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Applicable IBC protocol number(s) (approved or submitted): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. List the laboratory locations (building/room[s]) for BBP or OPIM, BSL2 (or above) agents:

* Procedures:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and Storage: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. If introducing BBP or OPIM into animals, list the animal facility locations (building/room[s]) for these animals. Minimally, ABSL2 containment is required.

* Confirm with ULAR that the rooms listed below are suitable for ABSL2 animals.

Procedures:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and Housing:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Date of Agent Summary form completion: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_