Human Subjects (*if applicable*): If the research involves human subjects, please provide a section immediately following the research plan that addresses:

1. **Risks to Human:**
   - Describe and justify the proposed involvement of human subjects in the work outlined in the Research Strategy section.
   - Describe the characteristics of the subject population, including their anticipated number, age range, and health status, if relevant.
   - Describe and justify the sampling plan, including retention strategies and the criteria for inclusion or exclusion of any subpopulation.
   - If relevant, explain the rationale for the involvement of special vulnerable populations, such as fetuses, neonates, pregnant women, children, prisoners, institutionalized individuals, or others who may be considered vulnerable populations. Note that 'prisoners' includes all subjects involuntarily incarcerated (for example, in detention centers) as well as subjects who become incarcerated after the study begins.
   - If relevant to the proposed research, describe procedures for assignment to a study group. As related to human subjects protection, provide details about all planned interventions such as dose, frequency, and administration.
   - List any collaborating sites where human subjects research will be performed, and describe the role of those sites and collaborating investigators in performing the proposed research. Explain how data from the site(s) will be obtained, managed, and protected.

2. **Sources of Materials**
   - Describe the research material obtained from living individuals in the form of specimens, records, or data.
   - Describe any data that will be collected from human subjects for the project(s) described in the application.
   - Indicate who will have access to individually identifiable private information about human subjects.
   - Provide information about how the specimens, records, and/or data will be collected, managed, and protected, as well as whether any individually identifiable private information will be collected specifically for the proposed research project.

3. **Potential Risks**
   - Describe all the potential risks to subjects posed by participation in the research (physical, psychological, financial, legal, or other), and assess their likelihood and seriousness to the human subjects.
   - Where appropriate, describe alternative treatments and procedures, including the risks and potential benefits of the alternative treatments and procedures, to participants in the proposed research. When alternative treatments or procedures are possible, the rationale for the proposed approach should be clear
4. Recruitment and Informed Consent
   - Describe plans for the recruitment of subjects (where appropriate) and the
     process for obtaining informed consent. If the proposed studies will include
     children, describe the process for meeting requirements for parental permission
     and child assent.
   - Include a description of the circumstances under which consent will be sought
     and obtained, who will seek it, the nature of the information to be provided to
     prospective subjects, and the method of documenting consent. When
     appropriate, describe how potential adult subjects’ capacity to consent will be
     determined and plans for obtaining consent from a legally authorized
     representative for adult subjects not able to consent.
   - If a waiver of some or all of the elements of informed consent will be sought,
     provide justification for the waiver. Informed consent document(s) need not be
     submitted unless subsequently requested by NPCRC.

5. Protections Against Risk
   - Describe planned procedures for protecting against or minimizing all potential
     risks identified, including risks to privacy of individuals or confidentiality of
     data, and assess their likely effectiveness.
   - Where appropriate, discuss plans for ensuring necessary medical or
     professional intervention in the event of adverse effects to the subjects.
   - Where appropriate, describe plans for handling incidental findings that may be
     uncovered as a result of the research, such as incidental findings from research
     imaging, results of screening tests, or misattributed paternity.

6. Potential Benefits of the Proposed Research to Human Subjects and Others
   - Discuss the potential benefits of the research to research participants and others.
     • Discuss why the risks to subjects are reasonable in relation to the anticipated
       benefits to research participants and others.
   - Please note that financial compensation of subjects should not be presented as a
     benefit of participation in research.

7. Importance of the Knowledge to be Gained
   - Discuss the importance of the knowledge to be gained as a result of the
     proposed research. • Discuss why the risks to subjects are reasonable in relation
     to the importance of the knowledge that reasonably may be expected to result.