

Lay Summary Example

To aid in your preparation of your IBC Application Coversheet an example of a **good Lay Summary** is written below. The reasons why it is good include:

- Provides background information
- Easy to read and understand
- Describes what the project entails.
- Discusses the virus's which will be included
- Provides background information
- Gene information supplied
- Refers to the facility and resources within the facility e.g. Class 2 Biosafety cabinet
- Safety included

Example of a Good Lay Summary For IBC Application

The focus of research covered in this NLRD is to understand Flaviviridae replication and pathogenesis, in particular the involvement of specific viral proteins in the host response to infection. The three agents used in this research will be dengue virus (DENV), hepatitis C virus (HCV) and bovine viral diarrhoea virus (BVDV). Both DENV and HCV are risk group 2 human pathogens for which there is no current vaccine and limited treatment options, while BVDV is a domestic animal pathogen, but is not listed as an exotic pathogen requiring quarantine. DENV virus is transmitted by mosquito bite and the specific mosquito vector is not present in South Australia. HCV is a blood borne virus and is transmitted by intravenous drug use or blood transfusion. The work covered in this application will not produce infectious virus and none of the proteins to be expressed as toxic or pathogenic outside of the intact organisms. Our studies will focus on the viral structural envelope (E) protein, non-structural NS3 and NS5 and untranslated region (UTR) of the viral genome.

Amplification of DNA for constructs encoding viral proteins or UTR will be performed in E.Coli, where the constructs are incapable of generating infectious virus. Additionally, individual sections of the viral genome will be manipulated or expressed in E.Coli and in mammalian cells but alone these sections are not pathogenic and have no transforming properties. All work will be performed in a OGTR certified PC2 facility (Rm 5D-316, current application). All handling of infectious material will be performed in a class II biosafety cabinet and all materials will be inactivated and disposed of in accordance with safety guidelines and OGTR requirements.