Advancing Protein Production: The Cutting-Edge Capabilities of the WEHI Protein Production Facility

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Walter and Eliza Hall Institute of Medical Research (WEHI) Protein Production Facility (PPF) is an advanced research facility dedicated to high-quality protein production for diverse scientific applications. (Fig. 1) Equipped with advanced expression systems, the facility enables the production of proteins from various sources, including bacterial, insect, and mammalian expression platforms. PPF offers comprehensive protein production services encompassing construct design, gene cloning, expression optimization, large-scale protein production and purification using a wide range of chromatography techniques. The innovative methodologies effectively enhance protein solubility, stability, and yield, enabling researchers to obtain functional and biologically active proteins. At the PPF, we prioritize quality control and implement rigorous protocols to ensure the integrity, purity, and functionality of the produced proteins. We employ cutting-edge analytical tools, such as mass spectrometry and biophysical characterization techniques, to assess the quality of the proteins generated.

We actively engage with researchers within the WEHI community and external partners, fostering collaborations to address specific protein production challenges and develop innovative approaches. With our commitment to excellence in protein production and our collaborative approach, the WEHI Protein Production Facility serves as a valuable resource for researchers seeking reliable and high-performance protein production services.

Figure 1. Overview of WEHI Protein Production Facility.