

Biomedical Ecosystem Strategy (Jan 2024)

Scope

mRNA for the purpose of developing vaccines (that trigger immune responses to prevent infection or treat chronic diseases).

Vision

Establish the highly-skilled Queensland biomedical ecosystem as a sustainable, world-leading location of choice to conduct end-to-end R&D and commercialisation.

Strengths



World class research capabilities in vaccines, infectious diseases, immunology & clinical research



High quality universities and an educated, highly-skilled workforce



Attractive location for clinical trials with sophisticated academic health translation research infrastructure



Geographic proximity to the high-growth Asia Pacific region



Government with a focus on medical innovation as a priority industry for investment

Opportunities



Optimised target identification and selection for development



Access to locally sourced materials



Expertise in drug delivery systems and access to / development of improved delivery mechanisms



Analysis services for preclinical development and clinical trials



Improved sovereign capability for mRNA production and drug development

Strategies

1. Capacity Building

- Conduct capability audit based on availability
- Develop or facilitate better access to manufacturing infrastructure
- Better utilise existing knowledge and technology capabilities at Queensland universities
- Foster collaboration and partnerships with aligned interests
- Support and enable the growth of Queensland health and medical precincts

2. Workforce

- Foster a training environment for the future workforce
- Provide an international standard of integrated industry work and learning experiences for Queensland students and early career researchers
- Attract and retain world-leading experts
- Establish a strong and attractive pathway for students to engage in research or transition to industry (and return)

3. Investment

- Support targeted bids for federal research and infrastructure funding programs
- Attract overseas companies and investors
- Connect Queensland companies into local and international markets and supply chains
- Shape/inform government policy to improve investment attraction
- Attract government and non-government investment