

SPIN-OUT CASE STUDY 2:

RENEWVAX



- Sector: Vaccines
- Nearly £300K seed funding from Innovate UK matched by £300K University funding*

Bacterial infectious diseases are an ongoing global issue and are extremely serious. Streptococcus pneumoniae, commonly known as pneumococcus, is the cause of life-threatening diseases such as pneumonia, meningitis and sepsis that lead to over 1.9 million deaths every year. There are a hundred distinct variants of the bacterium, and they can be spread asymptomatically. Current vaccines, such as Appexnar[®] , are only effective against 20% of the existing variants. A universal vaccine that can treat all variants is required to lower infection rates and will also contribute to minimising the development of antimicrobial resistance.

ReNewVax is a University of Liverpool spin-out established in 2022 with a new vaccine development platform with the potential to produce next-generation vaccines for a variety of diseases, beginning with a pneumococcal vaccine, for use around the world. The pneumococcal vaccine market was the largest pre-pandemic vaccine market and had an estimated value of £9.5 billion in 2022. The team are developing a novel protein-based vaccine formulation that will provide a safe, easy-tomanufacture and affordable solution. In addition, their vaccine is effective against all types of the pneumococcal bacterium creating a more universal product compared to those already on the market, which target only specific strains.

ReNewVax was co-founded by Dr Marie Yang and Professor Aras Kadioglu, both from the Institute of Infection, Veterinary and Ecological Sciences. The company was awarded £299,578 in seed funding from Innovate UK's, Innovation to Commercialisation of University Research (ICURe), which was matched by £300,000 in funding from the University of Liverpool's Enterprise Investment Fund*. Their pneumococcal vaccine is expected to enter early phase clinical trials in 2025, and their contribution to the rising challenge of antimicrobial resistance is a key focus for the University of Liverpool and a strength for the Liverpool City Region. The company is expected to create at least five full time posts during its first 12 months.

"With the tremendous support of the IP **Commercialisation team at** the University of Liverpool (UoL) and seed funding from Innovate UK and UoL Enterprise board, we are now in a position to take our vaccine research beyond the bench and into the real world. ReNewVax represents an opportunity for us to foster innovation and make a difference. We have a very strong management and scientific team, and I cannot wait to see how far we will take this venture".

> Dr Marie Yang Co-founder of ReNewVax