



MEDIA RELEASE – for immediate release

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Biotech firm tackling COVID-19 and *M. bovis*

Auckland-based biotechnology company Pictor has received a double funding boost from government and partners for two crucial development projects to help combat COVID-19 and *Mycoplasma bovis*.

Pictor has received a grant of \$500,000 from the \$25 million MBIE COVID-19 Innovation Acceleration Fund, which supports the speedy development of new products and services that could help to detect, diagnose, treat or prevent the virus.

Pictor's grant will be used to develop a test for detection of COVID-19 infection in less than an hour.

Pictor has also concluded a research agreement with the *M. bovis* Programme (Ministry for Primary Industries, DairyNZ and Beef + Lamb) to develop a more sensitive diagnostic for *M. bovis*. The Programme has allocated up to \$30 million for *M. bovis* research projects.

“Current diagnostic testing in New Zealand for COVID-19 is slow, complex, expensive, and must be done in a specialist central laboratory,” says Pictor Chief Executive Howard Moore. “We propose developing a new diagnostic test to detect SARS-CoV-2 infection at all stages of the COVID-19 disease. It will involve the simultaneous detection of specific biomarkers involved in different stages of infection, enabling early diagnosis of infected patients, including asymptomatic patients.

“Based on our unique diagnostic technology, the test will be fast (taking less than an hour), cheap, and will not require specialist infrastructure. These characteristic features make it ideal for deploying globally, including remote locations, decentralized labs, and developing nations.”

Dr John Roche, Chair of the *M. Bovis* Strategic Science Advisory Group and Chief Science Adviser, Ministry for Primary Industries, says the development of a more sensitive test has the potential to optimise future testing.

“The Programme’s testing regime is really good for this stage of the eradication programme but, in 12-18 months as the prevalence of the disease in the cattle population gets lower and lower, the ability to detect it will get harder and harder. To provide confidence New Zealand is free of *M. bovis*, background surveillance will continue for some years after the current delimiting stage of the eradication, which is focused on eliminating *M. bovis*.”

Dr Roche says science and better diagnostics in particular will play a critical role in accelerating the eradication of *M. bovis* from New Zealand and in preventing another incursion.

Established in 2005, Pictor has developed, patented and commercialised an immunodiagnostic platform capable of detecting multiple biomarkers from a single sample of liquid, such as blood, serum or milk. This allows for multiple diseases to be tested for simultaneously or more informed diagnoses of a disease through the detection of multiple biomarkers for that specific disease. The process reduces the analysis costs, complexity, and sample volume.

Pictor’s envisaged *M. bovis* testing regime is seen as a valuable tool in the New Zealand eradication of the bacterial disease, which does not affect humans but can lead to serious health conditions in cattle.

Pictor and the University of Melbourne plan to develop a diagnostic test capable of simultaneously detecting antibodies against multiple *M. bovis* antigens, rather than detecting only antibodies against a single antigen, as is the case in existing commercial testing.

“We have a highly skilled team ready to solve both of these critical issues. Our unique diagnostic platform has great utility as demonstrated by its ability to address cattle productivity and human health issues,” says Mr Moore.

For more information, and to arrange an interview with Howard Moore, contact: Mark Russell – 027 297 0178 or mark@hotmetal.nz

About Pictor

Pictor was founded in 2005 by two entrepreneurial scientists, Dr Anand Kumble and Dr Sarita Kumble. The founders retired from Pictor in 2017 and life sciences serial entrepreneur Howard Moore was appointed CEO.

Since 2017, the Pictor team has expanded and now has 20 employees located in New Zealand, Europe and India. Some 250 laboratories in India are using Pictor's multiplex PictArrays to screen for maternal infections, auto immune diseases and hepatitis.

Pictor is commercialising its multiplex technology platform through the on-going development of an expanding portfolio of diagnostic test.