Scientific Rationale

What is known about 3clpro?

- There is no proven cure for COVID-19
- The 3C-like protease (3clpro), also known as the main protease (Mpro),
 - is a key part of the life cycle of the COVID-19 virus
 - cleaves polyproteins to allow the virus to assemble
- 3cl-pro is a possible target for structure-based drug design
 - Proteases with similar function are established drug targets in other viruses, like HIV
 - A high-resolution (2.16 Å) structure in complex with an inhibitor has been solved and deposited into the protein data bank as 6LU7 [1]
 - The enzyme is inhibited by several compounds with a micromolar IC₅₀ [1]

