

World Journal of Gastroenterology

Attn: Editor

November 28, 2022

CERTIFICATE

The authors of the review paper entitled “**The relation between COVID-19 with liver diseases and its impact on healthcare systems: the Portuguese case**”, certified that the study we conducted to produce this paper had a qualitative nature and therefore, no biostatistics analysis were used or performed. Any quantitative information reported is from other articles reviewed in preparation for this paper and is properly cited.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Isabel Silva', with a long horizontal stroke extending to the right.

Isabel Silva, PhD

Research at Laboratory of Pharmacology and Neurobiology – Department of Immuno-physiology and Pharmacology / Center for Drug Discovery and Innovative Medicines (MedInUP) - Instituto de Ciências Biomédicas Abel Salazar da Universidade do Porto (ICBAS-UP), Portugal

Invite Professor in Department of Immuno-physiology and Pharmacology - Instituto de Ciências Biomédicas Abel Salazar da Universidade do Porto (ICBAS-UP), Portugal

Rua Jorge Viterbo Ferreira, nº228, 4050-313 Porto

Email: isabel.silva@ibmc.up.pt / issilva@icbas.up.pt

Invite Professor in Escola de Ciências da Saúde do Norte da Cruz Vermelha – Oliveira de Azeméis, Portugal

Email: isabel.silva@essnortecvp.pt