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Coronavirus (CoV) proteins in GtoPdb v.2022.2

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Abstract

Coronaviruses are large, often spherical, enveloped, single-stranded positive-sense RNA viruses, ranging in size from 80-220 nm. Their genomes and protein structures are highly conserved. Three coronaviruses have emerged over the last 20 years as serious human pathogens: SARS-CoV was identified as the causative agent in an outbreak in 2002-2003, Middle East respiratory syndrome (MERS) CoV emerged in 2012 and the novel coronavirus SARS-CoV-2 emerged in 2019-2020. SARS-CoV-2 is the virus responsible for the infectious disease termed COVID-19 (WHO Technical Guidance 2020).

Contents

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Database links

Coronavirus (CoV) proteins
https://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=1034
Introduction to Coronavirus (CoV) proteins
https://www.guidetopharmacology.org/GRAC/FamilyIntroductionForward?familyId=1034

Targets

- CoV Envelope protein
  https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3116
- CoV 3C-like (main) protease
  https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3111
- CoV Membrane glycoprotein
  https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3117
- CoV Non-structural protein 6
  https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3118
- CoV Non-structural protein 7b
  https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3123
- CoV Non-structural protein 8
  https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3120
- CoV Non-structural protein 14
  https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3198
- CoV Nucleoprotein
  https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3121
- CoV Papain-like protease

https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3132
CoV Protein 3a
https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3115
CoV Protein 7a
https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3119
CoV Protein 9b
https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3122
CoV Replicase polyprotein 1a
https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3124
CoV Replicase polyprotein 1ab
https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3125
CoV RNA-dependent RNA polymerase
https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3139
CoV Spike glycoprotein
https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3114

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