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The quest for broad-spectrum coronavirus inhibitors

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Abbreviations

Thesis summary

List of publications

Curriculum Vitae

Abbreviation	Meaning
+RNA	positive-sense single-stranded RNA
5-FU	5-fluoro-uracil
aa	amino acid
ACE2	angiotensin-converting enzyme 2
APN	aminopeptidase N
ARDS	acute respiratory distress syndrome
ATA	aurintricarboxylic acid
BCoV	bovine coronavirus
BwCoV	Beluga whale coronavirus
CCoV	canine coronavirus
cDNA	complementary DNA
CEACAM	carcinoembryonic antigen-related adhesion molecules
CHO	chloroquine
CL ^{pro}	chymotrypsin-like protease
CNI	calcineurin inhibitors
CoV	coronavirus
COVID-19	coronavirus disease 2019
CPE	cytopathic effect
Cryo-EM	cryo-electron microscopy
CsA	cycloporine A
CTD	C-terminal domain
Cyp	cyclophilin
DENV	Dengue virus
DFA	6',6'-difluoro-aristeromycin
DMV	double-membrane vesicles
dpi or d p.i.	days post infection
DPP4	dipeptidyl peptidase 4
dpt or d p.t.	days post transfection
ds	double-stranded
E	envelope protein
EAV	equine arteritis virus
EBOV	Ebola virus
EMA	European Medicines Agency
EMC	Erasmus Medical Center
EndoU	endoribonuclease
EqCoV	equine coronavirus
ER	endoplasmic reticulum
ERGIC	endoplasmic reticulum-Golgi intermediate compartment
EVL	everolimus
ExoN	exoribonuclease
FeCoV	feline enteric coronavirus
FIPV	feline infectious peritonitis virus
GMP, GDP, GTP	guanosine mono-, di-, triphosphate

Abbreviations

gRNA	genomic RNA
GTase	guanylyltransferase
HAE	human airway epithelial cells
HBV	hepatitis B virus
HCoV-229E	human coronavirus 229E
HCoV-HKU1	human coronavirus HKU1
HCoV-NL63	human coronavirus NL63
HCoV-OC43	human coronavirus OC43
HCV	hepatitis C virus
HEL	helicase
HIV	human immunodeficiency virus
hpi or h p.i.	hours post infection
HR	heptad repeat
HTS	high-throughput screening
IBV	infectious bronchitis virus
ICTV	International Committee on Taxonomy of viruses
IFN	interferon
k/d	knockdown
k/o	knockout
kb	kilobase
kDa	kilodalton
KTR	kidney transplant recipients
LUMC	Leiden University Medical Center
M	membrane protein
MERS	Middle East respiratory syndrome
MHV	mouse hepatitis virus
MMF	mycophenolate mofetil
MoA	mode of action
MOI	multiplicity of infection
Mpro	main protease
MPA	mycophenolic acid
mRNA	messenger RNA
N	nucleocapsid protein
N7-Mtase	N7-guanine methyltransferase
NGS	next generation sequencing
NHC	N4-hydroxycytidine
NiRAN	Nidovirus RdRp-associated nucleotidyl transferase domain
nsp	non-structural protein
nt	nucleotide
NTD	N-terminal domain
NTP	nucleoside triphosphate
O2-Mtase or 2'-O-MTase	2'-O-methyltransferase
ORF	open reading frame
PDB	Protein Data Bank

PDCoV	porcine deltacoronavirus
pDFA	monophosphoramidate 6',6'-Difluoro-aristeromycin
PEDV	porcine epidemic diarrhea virus
PFU	plaque forming unit
PhCoV	pheasant coronavirus
PHEV	porcine hemagglutinating encephalomyelitis virus
PL ^{pro}	papain-like protease
pp	polyprotein
PSCNV	planarian secretory cell nidovirus
RbCoV	rabbit coronavirus
RBD	receptor binding domain
RCoV	rat coronavirus
RdRp	RNA-dependent RNA polymerase
RDV	remdesivir
RNA	ribonucleic acid
RO	replication organelle
RSV	respiratory syncytial virus
RTC	replication and transcription complex
rwt	recombinant wild-type virus
S	spike protein
SAH	S-adenosylhomocysteine
SAM	S-adenosylmethionine
SARS	severe acute respiratory syndrome
SARS-CoV-2	severe acute respiratory syndrome coronavirus 2
sg	subgenomic
ss	single-stranded
TAC	Tacrolimus
TGEV	transmissible gastroenteritis virus
TMPRSS2	transmembrane protease serine 2
TPase	triphosphatase
TRS	transcription-regulating sequence
TuCoV	turkey coronavirus
UMP, UDP, UTP	uridine mono-, di- triphosphate
VCS	voclosporin
VEEV	Venezuelan equine encephalitis virus
VZV	Varicella zoster virus
WNV	West Nile virus
wt	wild type
ZBD	zinc binding domain
ZF	zinc finger
ZIKV	Zika virus

