Electronic Supplementary Material (ESI) for Molecular BioSystems.
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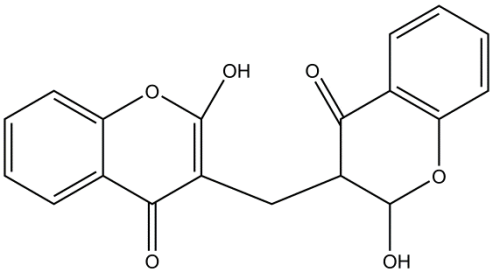
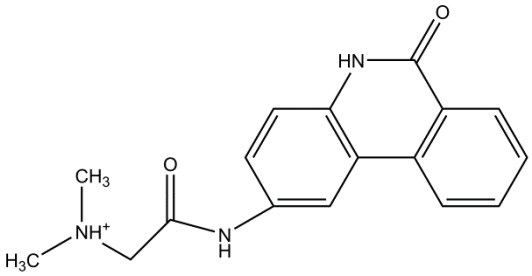
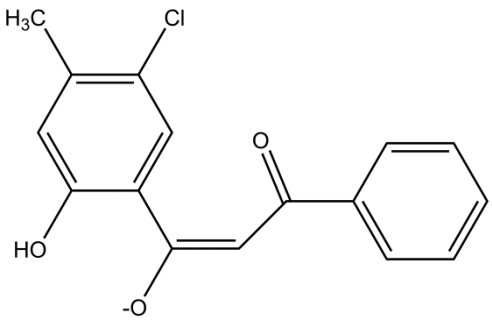
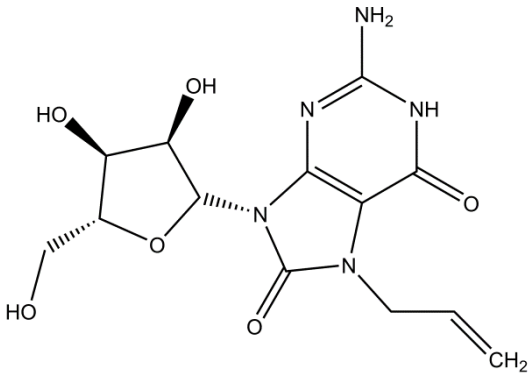
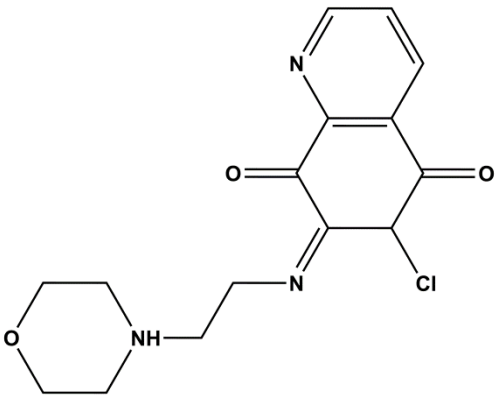
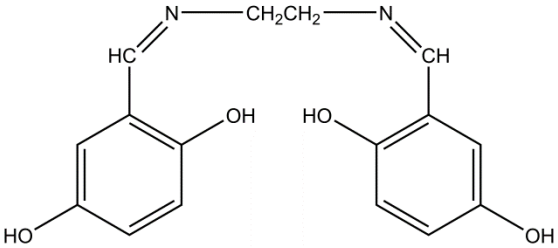
Table S1. List of the compounds used to test for the SPR assay of full-length HCoV-OC43 NP.

Number	H1	Number	H5
Chemical formula	3,3'-Methylenebis(4-hydroxycoumarin)	Chemical formula	N-(6-Oxo-5,6-dihydrophenanthridin-2-yl)-(N,N-dimethylamino)acetamide hydrochloride (PJ34)
structure		structure	
Number	H2	Number	H6
Chemical formula	1-(5-Chloro-2-hydroxy-4-methylphenyl)-3-phenyl-1,3-propanedione	Chemical formula	7-Allyl-7,8-dihydro-8-oxoguanosine
structure		structure	
Number	H3	Number	H7
Chemical formula	6-chloro-7-(2-morpholin-4-yl-ethylamino)quinoline-5,8dione	Chemical formula	N,N-Bis(2,5-dihydroxybenzylidene)ethylenediamine
structure		structure	
Number	H4	Number	H8
Chemical formula	1-(5-Bromo-2-hydroxyphenyl)-3-phenyl-1,3-propanedione	Chemical formula	6-(chloromethyl)-2-[(4-methoxyphenoxy)methyl]pyrimidin-4-ol

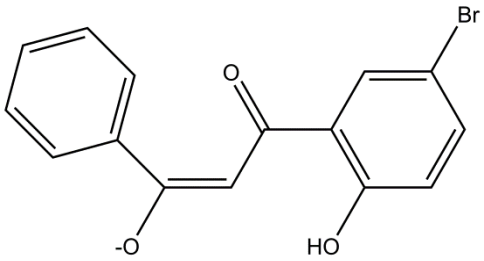
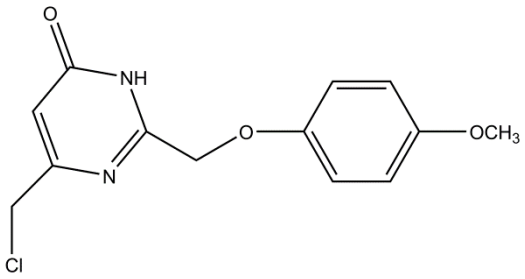
structure		structure	

Table S2. The compounds obtained from virtual screening that affected the RNA-binding capacity of N protein.

No.	Compound	Inhibition of RNA-binding activity
H1	**3,3'-Methylenebis(4-hydroxycoumarin)**	**-** [a]
H2	**1-(5-Chloro-2-hydroxy-4-methylphenyl)-3-phenyl-1,3-propanedione**	**-**
H3	**6-chloro-7-(2-morpholin-4-yl-ethylamino)quinoline-5,8dione**	**++** [b]
H4	**1-(5-Bromo-2-hydroxyphenyl)-3-phenyl-1,3-propanedione**	**-**
H5	**N-(6-Oxo-5,6-dihydrophenanthridin-2-yl)-(N,N-dimethylamino)acetamide hydrochloride**	**+** [c]
H6	**7-Allyl-7,8-dihydro-8-oxoguanosine**	**-**
H7	**N,N-Bis(2,5-dihydroxybenzylidene)ethylenediamine**	**-**
H8	**6-(chloromethyl)-2-[(4-methoxyphenoxy)methyl]pyrimidin-4-ol**	**-**

[a] No significant inhibition was observed.
[b] decreased the RNA-binding capacity of N protein by 20%.
[c] decreased the RNA-binding capacity of N protein by 10%.