



Supplementary Material S1: Configuration file and script containing information on the grid box centers and sizes of prepared receptors and selected drugs.

Shell script

#! /bin/bash

for f in *.pdbqt; do
 b=`basename \$f .pdbqt`
 echo Processing ligand \$b
 mkdir -p \$b
 vina --config conf.txt --ligand \$f --out \${b}/out.pdbqt --log \${b}/log.txt
done

Configuration files (i.e content of conf.txt) for the different docking simulations

receptor	=	5h6v_only.pdbqt
center_x	=	-8.522
center_y	=	3.178
center_z	=	-14.473
size_x	=	12
size_y	=	10
size z	=	17

receptor	=	5k8t_only.pdbqt
center_x	=	115.969
center_y	=	2.824
center_z	=	64.433
size_x	=	14
size_y	=	19
size_z	=	14

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receptor	=	5kqs_only.pdbqt
center_x	=	52.145
center_y	=	10.164
center_z	=	-2.722
size_x	=	15
size_y	=	15
size_z	=	12

receptor	=	5mrk_only.pdbqt
center_x	=	18.216
center_y	=	7.699
center_z	=	4.793
size_x	=	13
size_y	=	18
size_z	=	15

receptor	=	5u04_only.pdbqt
center_x center_y center_z	= = =	25.036 68.817 103.577
size_x	=	12
size_y	=	16
size_z	=	16

receptor	=	5ulp_only.pdbqt	
center_x	=	-2.874	
center_y	=	-1.66	
center_z	=	26.51	

size_x	=	15
size_y	=	17
size_z	=	16

Supplementary Material S2: The modifications made on the ligand refinement readymade script for the induced fit simulations in PELE.

```
pele &
     het Chain:ID & #The chain and identification of the drug
     pdbmodel yes &
     init_min yes &
     steric_tr 500 &
     steered 1 &
     waitfor 5 &
     task &
           show bind ene 1 &
           spawn point 1 xyz lt n & #xyz are the specific binding coordinates; n was lowered
depending on the drug position at the start of the simulation
           if random 1 gt 0.5 then tra_r 0.6 else tra_r 0.3 endif &
           if random 2 gt 0.5 then rot_r 0.25 else rot_r 0.05 endif &
           exit steps gt 100 &
     end_task &
     tries 50 &
     temp 4000 &
     anmfreq 1 &
     spfreq 1 &
     mifreq 1 &
     wrfreq 1 &
     sprad 5.0 &
     lcom con 0.01 &
     side &
           randomize yes &
           iter 1 &
           verbose no &
           failsafe no &
     sideend &
     path traj_ &
     min &
           rmsg 0.04 &
           nbup yes &
           gbup yes &
           alphaup yes &
     minimend &
     mirad 60 &
     caconst 0.5 &
     rem_bulk_mov 3 &
```

anm_eig_freq 100000 & anm_altm_freq 10 & anm_altm_type 4 & lanmanm neig 6 & lanmanm mode 5 & lanmanm move_ca 0.8 & lanmanm mix_modes 0.80 & lanmmin & mxitn 100 & iter 1 & rmsg 0.04 & nbup yes & alphaup no & minimend

HCV Polymerase-Active SiteHCV Protease-Active site2AWZ5HMY3SU32AX05HMZ3SUD2AX15HN0-3FQK3FQL3G863H5S3H5U3H59		Dengue Polymerase-	
2AWZ5HMY3SU32AX05HMZ3SUD2AX15HN0-3FQK3FQL3G863H5S3H5U3H59	HCV Polymerase-Active Site	Active Site	HCV Protease-Active site
2AX0 5HMZ 3SUD 2AX1 5HN0 3FQK 3FQK - - 3FQL - - 3G86 - - 3H5S - - 3H5U - - 3H59 - -	2AWZ	5HMY	3SU3
2AX1 5HN0 3FQK 3FQL 3FQL	2AX0	5HMZ	3SUD
3FQK 3FQL 3G86 3H5S 3H5U 3H59	2AX1	5HN0	
3FQL 3G86 3H5S 3H5U 3H59	3FQK		
3G86 3H5S 3H5U 3H59	3FQL		
3H5S 3H5U 3H59	3G86		
3H5U 3H59	3H5S		
3H59	3H5U		
	3H59		
4MIA	4MIA		
4MK7	4MK7		
4MK8	4MK8		
4MK9	4MK9		
4MKA	4MKA		
4MKB	4MKB		
5W2E	5W2E		

Supplementary Table S1. PDB accession numbers indicated by target-location

Supplementary Figure S1: Inhibitory effect of efavirenz, tipranavir, and dasabuvir on ZIKV growth in Vero cells in a post-treatment assay.



Dasabuvir, efavirenz, and tipranavir (i.e., drugs that inhibited ZIKV in a simultaneous treatment assay) were further used in a post-treatment antiviral study. The potency of these compounds to inhibit ZIKV 2 hours post-infection was assayed in Vero cells. The cells were infected with ZIKV (strain MR-766) at multiplicity of infection = 0.1. After two hours, the medium containing virus was removed and replaced with a fresh medium containing the tested compounds at concentration of 50 μ M. DMSO was added to virus-infected cells as a negative control at a concentration corresponding to a dilution of the initial drug–DMSO stock (at a maximal final concentration of 0.5% (vol/vol)). After 48 h of incubation, culture media were harvested and subjected to plaque assay. Horizontal dashed black line indicates the minimum detectable threshold of 1.44 log₁₀ PFU.ml⁻¹. Horizontal dashed red line indicates the mean titer of the control. Data were analyzed using Student's t-test (GraphPad Prism, version 7.04); **, p < 0.01; ***, p < 0.001; ****, p < 0.0001.

Supplementary Figure S2: Inhibitory effect of a reference compound (7-deaza-2'-C-methyladenosine) on ZIKV growth in Vero cells.



7-deaza-2'-C-methyladenosine was used at the concentration of 50 μ M as a reference compound in our antiviral assays. The potency of 7-deaza-2'-C-methyladenosine to inhibit ZIKV in Vero cells was investigated in a simultaneous assay, and 2 hours post-infection assay. The cells were infected with ZIKV (strain MR-766) at multiplicity of infection = 0.1. In case of simultaneous treatment, culture medium containing 7-deaza-2'-C-methyladenosine at concentration of 50 μ M was simultaneously added to the cell monolayers. In case of post-treatment, the medium containing virus was removed at 2 hours post-infection and replaced with a fresh medium containing 7-deaza-2'-C-methyladenosine at concentration of 50 μ M. DMSO was added simultaneously to virus-infected cells as a negative control at a concentration corresponding to a dilution of the initial drug–DMSO stock (at a maximal final concentration of 0.5% (vol/vol)). After 48 h post-infection, culture media were harvested and subjected to plaque assay. Horizontal dashed black line indicates the minimum detectable threshold of 1.44 log₁₀ PFU.ml⁻¹. Data were analyzed using Student's t-test (GraphPad Prism, version 7.04); *, p < 0.05; ****, p < 0.0001.