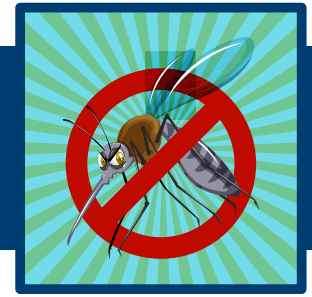


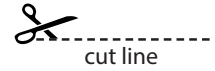
**UNIT: CHIKUNGUNYA**





**LESSON 2: IMMUNITY IN MOTION!**

*Activity 2A: Infection at the Door*



**TEXAS BIOMEDICAL  
RESEARCH INSTITUTE**  
HEALTH STARTS WITH SCIENCE



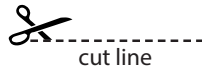
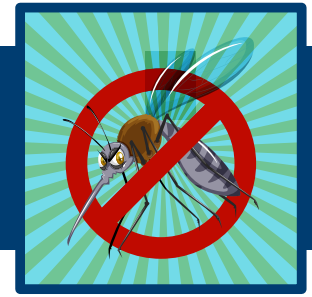
			
Time (Hours): 0 RNA/mL Copies: 107.4	Time (Hours): 0 RNA/mL Copies: 105.8	Time (Hours): 0 RNA/mL Copies: 107.4	Time (Hours): 0 RNA/mL Copies: 105.8
Time (Hours): 8 RNA/mL Copies: 106.9	Time (Hours): 8 RNA/mL Copies: 103.3	Time (Hours): 8 RNA/mL Copies: 104.7	Time (Hours): 8 RNA/mL Copies: 101.8
Time (Hours): 16 RNA/mL Copies: 107.6	Time (Hours): 16 RNA/mL Copies: 105.1	Time (Hours): 16 RNA/mL Copies: 105.5	Time (Hours): 16 RNA/mL Copies: 103.3
Time (Hours): 24 RNA/mL Copies: 107.9	Time (Hours): 24 RNA/mL Copies: 105.7	Time (Hours): 24 RNA/mL Copies: 106.	Time (Hours): 24 RNA/mL Copies: 103.6





**MIDDLE & HIGH SCHOOL LEVEL**

**UNIT: CHIKUNGUNYA**

**LESSON 2: IMMUNITY IN MOTION!**

*Activity 2A: Infection at the Door*

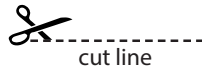

























			
<p><b>Time (Hours):</b> 36 <b>RNA/mL Copies:</b> 107.8</p>	<p><b>Time (Hours):</b> 36 <b>RNA/mL Copies:</b> 106.2</p>	<p><b>Time (Hours):</b> 36 <b>RNA/mL Copies:</b> 106.4</p>	<p><b>Time (Hours):</b> 36 <b>RNA/mL Copies:</b> 104.8</p>
<p><b>Time (Hours):</b> 48 <b>RNA/mL Copies:</b> 107.7</p>	<p><b>Time (Hours):</b> 48 <b>RNA/mL Copies:</b> 106.5</p>	<p><b>Time (Hours):</b> 48 <b>RNA/mL Copies:</b> 106.6</p>	<p><b>Time (Hours):</b> 48 <b>RNA/mL Copies:</b> 106.0</p>

**UNIT: CHIKUNGUNYA**

**LESSON 2: IMMUNITY IN MOTION!**

*Activity 2A: Infection at the Door*





			
			
			
			
			
			


**UNIT: CHIKUNGUNYA**  
**LESSON 2: IMMUNITY IN MOTION!**  
*Activity 2A: Infection at the Door*




**Data Table by Species for Individual Graph Plotting/Group Discussion**

Time (hours post-infection)	U937 MOI=5 
0	$10^{7.4}$
8	$10^{6.9}$
16	$10^{7.6}$
24	$10^{7.9}$
36	$10^{7.8}$
48	$10^{7.7}$
48	$10^{7.7}$

Time (hours post-infection)	U937 MOI=0.1 
0	$10^{5.8}$
8	$10^{3.3}$
16	$10^{5.1}$
24	$10^{5.7}$
36	$10^{6.2}$
48	$10^{6.5}$
48	$10^{7.7}$

Time (hours post-infection)	RAW MOI=5 
0	$10^{7.4}$
8	$10^{4.7}$
16	$10^{5.5}$
24	$10^{6.1}$
36	$10^{6.4}$
48	$10^{6.6}$
48	$10^{7.7}$

Time (hours post-infection)	RAW MOI=0.1 
0	$10^{5.8}$
8	$10^{1.8}$
16	$10^{3.3}$
24	$10^{3.6}$
36	$10^{4.8}$
48	$10^{6.0}$
48	$10^{7.7}$