Overview

Read these cards to learn the rules of the game

1. Setup: see overleaf

2. Play: The last player to have been bitten by a mosquito goes first. Players take turns by going clockwise around the table. Each turn is made up of optional migration followed by either mating, or a gene drive release. See Play card for details.

3. End: see Winning the Game card.
Setup

Read these cards to learn the rules of the game

1. Separate the wildtype, gene drive, and resistant mosquito cards. Shuffle a deck containing the following cards:

<table>
<thead>
<tr>
<th></th>
<th>Wild-type</th>
<th>Gene drive</th>
<th>Resistant</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 players</td>
<td>13</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>3 players</td>
<td>17</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>4 players</td>
<td>18</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>5 players</td>
<td>23</td>
<td>5</td>
<td>2</td>
</tr>
</tbody>
</table>

2. Deal this deck evenly between the players and put the remaining cards to one side.
Game Rules

Play

1. Optional migration. First, the player may choose to disperse one mosquito inwards, and one mosquito outwards.

To do so:

• Nominate another player.
• Both players pick a card at random from the others hand.
• Both players add the picked card into their own hand (without revealing the card identities).
2. Second, the player chooses to do either a **mating** or a **gene drive release**.

- **Gene drive release.** Take 1 gene drive mosquito from the leftover cards and add it to your hand.

- **Mating.** The player to your left picks two cards at random from your hand and reveals them to the table. Do this:

<table>
<thead>
<tr>
<th></th>
<th>Wild-type</th>
<th>Gene drive</th>
<th>Resistant</th>
</tr>
</thead>
</table>
| **Wild-type**  | Return to hand!    | Replace wild-type with 
                              gene drive* & return to hand! | Return to hand! |
| **Gene drive** | Discard both!      |            |                       |

* from the leftover cards
The game is won by the first player to run out of mosquitoes. If you only have one card, you will need to do a gene drive release and hope to win on your next turn!

Together, we can end malaria