#### Using various TeX/LaTeX macros

 $G \searrow N \rightarrow P$  is easy.

$$G \to N \to P$$

$$\uparrow \\ E$$

That looks good, doesn't it! The E over N version seems to require a medskip:

$$G \to \stackrel{E}{\stackrel{\downarrow}{N}} \to P$$

## Using substack

The genotype-network-phenotype mapping is:

$${}_{E \to}^{G \to} N \to P$$

And here it is inline  $-\stackrel{G\to}{E\to} N\to P$ . And now inline with \textstyle G and E  $-\stackrel{G\hookrightarrow}{E} N\to P$ . This also uses substack, but with N as a \mathop{}:  $G\to N_{\stackrel{}{E}}\to P$ ?

# Using genfrac

Here's another way to represent it, using the genfrac command from amsmath.

$$G \to N \to F$$

$$\uparrow$$

$$E$$

This is also using genfrac but with the E on top:

$$E$$

$$G \to \stackrel{\downarrow}{N} \to P$$

The problem with genfrac is that it doesn't produce a very nice looking inline version  $-G \rightarrow N \uparrow \rightarrow P$ ?

E

### Using atop

Display style atop:

$$\frac{G}{E} \to N \to P$$

And here it is inline  $-\frac{G}{E} \to N \to P$ . This also uses atop but uses a double arrow symbol from the MnSymbol package  $-\frac{G}{E} \rightrightarrows N \to P$ . And now with squiggly arrows and \textstyle G and E.  $-\frac{G}{E}$   $\stackrel{\backslash}{_{\mathcal{F}}} N \to P$  This is atop as well, but using script style arrows:

$$G \searrow N \to P$$

Here's another way to represent it using atop:

$$G \to N \to P$$

$$\uparrow$$

$$E$$

### Using atop with sideset

Here's some more takes using \atop in combination with \sideset{}:

$$\frac{G_{\searrow}}{E^{\nearrow}}N \to P$$

And the inline version –  $E^{\nearrow}N \rightarrow P$ . Followed by more text, how does it effect the interline spacing? Does it make things look funny? Well, does it?

$$\frac{G \searrow}{E \nearrow} N \to P$$

And inline it looks like:  $G \nearrow N \rightarrow P$ 

And the inline version  $-\frac{G}{E} N \rightarrow P$ .