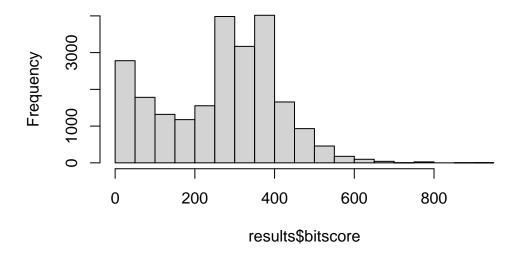
Class 16

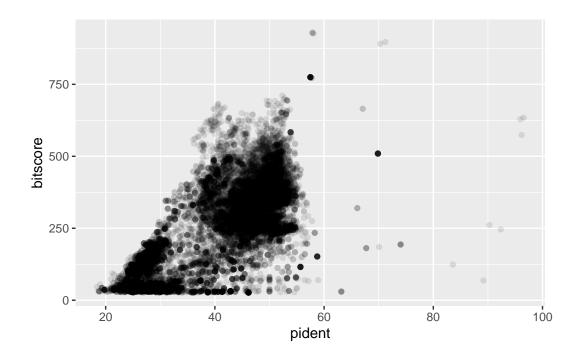
Grace Wang (PID: A16968688)

Histogram of results\$bitscore



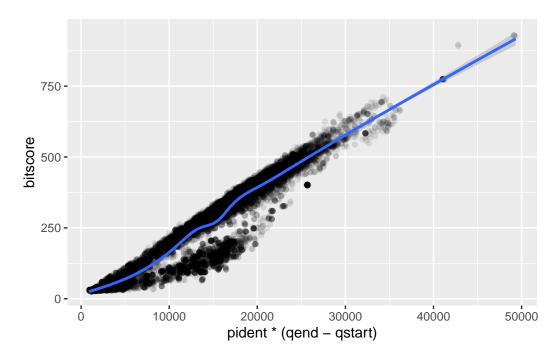
There are a few hits with very high bitscores, but the rest of the bitscores seem to be centered around ~ 350 with another peak close to 0.

```
ggplot(results) +
aes(pident, bitscore) +
geom_point(alpha = 0.1)
```



```
ggplot(results) +
  aes(pident * (qend - qstart), bitscore) +
  geom_point(alpha = 0.1) +
  geom_smooth()
```

 $^{&#}x27;geom_smooth()' using method = 'gam' and formula = 'y ~ s(x, bs = "cs")'$



Multiplying percent identity by alignment length reveals a strong relationship between scaled percent identity and bitscore.