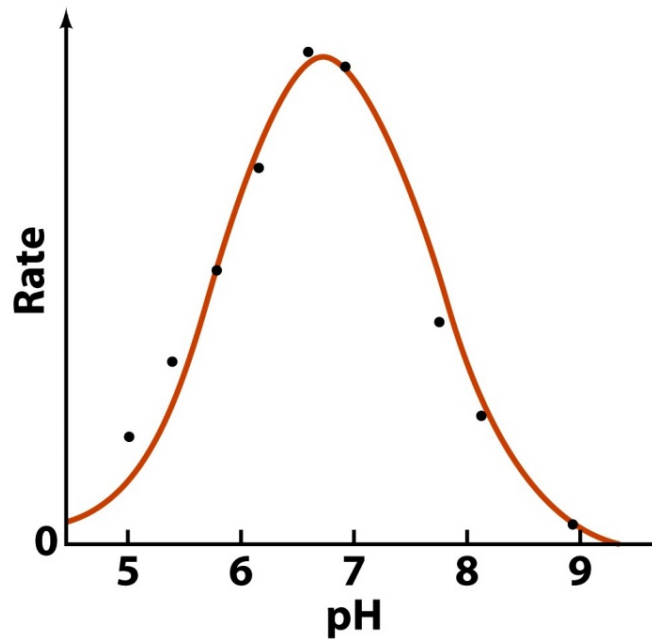


Below is the dependence of RNase A activity on pH.

Which amino acid plays a critical role in acid/base catalysis for this enzyme?

Why does this data suggest that this amino acid plays an acid/base role?

Imagine that glutamate played a key role in catalysis instead of the amino acid that you suggested above. Add the expected pH dependence curve for the glutamate-mechanism to the plot.



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