

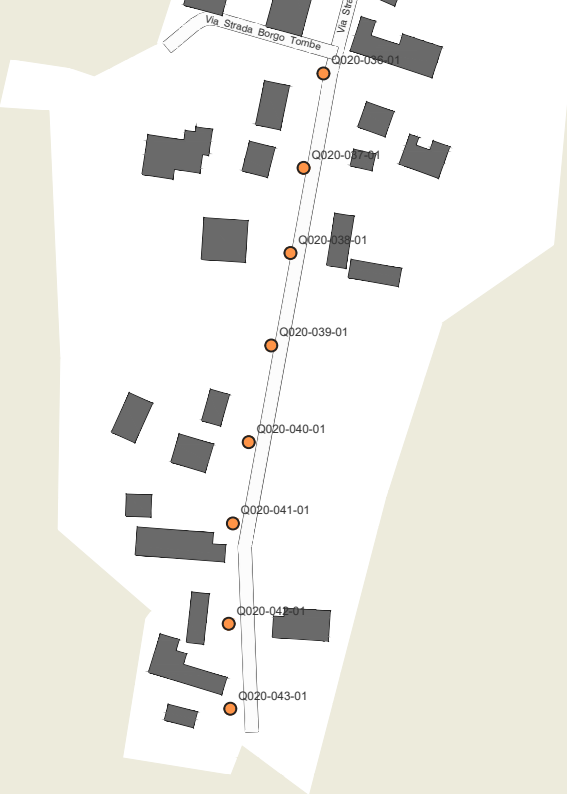


Figure 1 is a color-coded bar chart representing the distribution of 1000 genes across a pH range from 2.00 to 12.00. The bar is divided into three main color regions: red (pH 2.00-5.00), yellow (pH 5.00-8.00), and blue (pH 8.00-12.00). The pH values are marked along the top and bottom of the bar. Arrows point from specific pH values to descriptive text labels above and below the bar.

pH Value	Label Above Bar	Label Below Bar
2.00	Temperature and homeostasis	Temperature and survival of acidophilic organisms
3.00		
4.00		
5.00	Acid of bacteria	Temperature and survival of acidophilic organisms
6.00	Temperature and general metabolism of bacteria	Temperature and survival of bacteria
7.00		
8.00		Acid metabolism
9.00	Temperature in support of bacterial culture	Temperature and survival of bacteria
10.00		
11.00		
12.00		Acid production

SCALA
1:2500

