

A scatter plot showing the relationship between the H-index calculated using Ace2 (x-axis) and the H-index predicted by the SDM model (y-axis) for four species: *Y. pallidus* (yellow), *R. rattus* (red), *P. persicus* (purple), and *B. taurus* (blue). The plot includes regression lines and R-squared values for each species.

Species	Color	$R^2$
<i>Y. pallidus</i>	Yellow	0.01
<i>R. rattus</i>	Red	0.8
<i>P. persicus</i>	Purple	0.99
<i>B. taurus</i>	Blue	0.87

Zone:  West Coast  Mtn/Southwest  Central  East Coast

A scatter plot showing the relationship between Latitude (Y-axis, ranging from 25 to 45) and H-index (Ace2) (X-axis, ranging from 0.00 to 1.00). The plot includes four regression lines corresponding to different R-squared values:

- $R^2 = 0.2$  (Yellow line)
- $R^2 = 0.59$  (Red line)
- $R^2 = 0.99$  (Purple line)
- $R^2 = 0.95$  (Blue line)

The data points are colored circles corresponding to the regression lines. The plot shows a positive correlation between Latitude and H-index (Ace2) for all four series, with the Purple and Blue lines showing the steepest slopes and the Yellow line showing the shallowest slope.