Testing Powers of All Local Tests of Mantel for Increasing Dimension 1.Linear 2.Cubic 3.Step Function 4.Exponential **5.Joint Normal** Neighborhood Choice of Y 7.W Shape 8.Two Parabolas 9.Fourth Root 10.Logarithmic 6.Quadratic 11.Circle 12.Ellipse 13.Spiral 14.Square 15.Diamond 17.Sine Period 1/8 16.Sine Period 1/2 **18.Multiplicative Noise** 19.Uncorrelated Binomial **20.Independent Clouds** 0.4 0.3 0.2 0.1

Neighborhood Choice of X