Evolution of hump shape relationship between body size ratio and attack rates

Logically, larger organisms have higher metabolic needs than smaller organisms BUT their metabolic needs per unit body mass are lower. Metabolism scales with body size to the -¾ power, and because organisms. Because organism need to match their energy requirements with food intake, food consumption should scale also scale to the -¾ power.

What we see however is that relationship can be complex, and rarely is there evidence for consumption scaling to the -¾ power.

*How does consumption (in units of resource mass / consumer mass) scale with the biomass of the consumer?*