FIGURE 10: Increasing compactness of a chain molecule leads to the formation of secondary structure. With increasing compactness (number of intrachain contacts), exhaustive simulations of all possible configurations of short chains on lattices show that (Chan & Dill, 1989a, 1990b) (c) the number of accessible configurations diminishes rapidly and (b) and the amount of secondary structure increases sharply. (a) Same results as (b), except plotted against radius of gyration instead of compactness.