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power-law relationship [18,19], showing that there is symmetry in the rate at which regulatory work is partitioned across the genome. These fractal genetic systems are embedded within other levels of self-similarity in living systems. Many cellular interaction networks also exhibit scale-free architectures including protein-protein

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The fractal dimension of protein information 55 15,771,565 occurrences of 2,388,563 unique 5-mers [9]. In statistical terms, this means that each unique pentapeptide is repeated a mean average of 6.6 times

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Figure 9. The progressive increase in distributor symmetry by addition of smaller scale symmetric structure. The result is a fractal. distributor, the exit plane flow symmetry increases (compare checkerboard symmetry). The size of dots represents fluid momentum from each exit (not the size of an exit). In this example, the exiting

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### **Fractal and complex network analyses of protein molecular**

Fractals exhibit similar patterns at increasingly small scales, also known as expanding symmetry or unfolding symmetry; If this replication is exactly the same at every scale, as in the Menger sponge, it is called affine self-similar. One way that fractals are different from finite geometric figures is the way in which they scale.

### **Fractal - Wikipedia**

This leads to a new notion of symmetry. The mathematical name for this is "fractal", and it is also used when patterns of scale-self-similarity occur nearly the same at different levels; for example, in the magnifications of the Mandelbrot set. Fractals are used when a specific and detailed pattern is seen to repeat itself.

### **Symmetry | Special Issue : Symmetry and Fractals**

Fractal nature of protein surface roughness: a note on quantification of change of surface roughness in active sites, before and after binding. Anirban Banerji 1,\* and; Charudatta Navare 1,2; Article first published online: 25 MAR 2013. DOI: 10.1002/jmr.2264.

### **Fractal nature of protein surface roughness: a note on**

which, instead of the assumption of symmetry, assumes that the progress from T to the ligand-bound R state is a sequential process. ... the fractal dimension of membrane protein aggregates using fluorescence energy transfer method. This technique provides a means of assessing the nature of protein-

