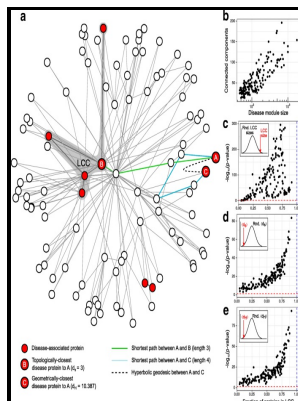# Geometry of DNA - a structural revision.

Blue Gallery - The geometry of DNA: a structural revision Mark E. Curtis email: mark@ne-x.uni.rf.gd

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. These nanorods were initially designed with Cadnano 2. The increasing complexity of novel applications requires significant computational support for the design, modelling and analysis of DNA nanostructures.

Structure of DNA

DNA double helix has Phosphate-sugar backbone The backbone of DNA double helix is made by the sugar and phosphate molecules.

The Structure of DNA

However, current in silico design tools have not been developed in view of these new applications and their requirements. Nucleoid is present in the center of most of the bacterial cells. The genetic information is also transferred to the next generation of cells via DNA.

DNA structure

Quite simply, as I say earlier, they can map as many genes or genomes as they like, but they will never make any real sense of them until they get the primary structure correct. Further strands were added to constrain the cross angles and to give further stability. Basic modification options include the deletion of various elements, concatenation or insertion of DNA strands, and breaking strands by deleting the phosphodiester bond between nucleotides, amongst others.

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