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BLUEPRINT FOR LIFE.



Every one of our cells contains the blueprint for the entire body. This set of instructions is carried by a long, unbranched molecule inside the cell's nucleus: a molecule of DNA (deoxyribonucleic acid). This molecule can be up to two metres long!

The molecule's structure is like that of a spiral rope ladder, whose vertical sides are alternate deoxyribose sugar (D) and phosphate (P) groups connected together. The "rungs" are base pairs, of which there are only two types – adenine (A) with thymine (T) and cytosine (C) with guanine (G). It is the ordering of these bases which constitutes the genetic code.

Our model shows a short section of the human genetic code for the insulin receptor. If its function is disrupted, diabetes can develop.

