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(71) Applicant *(for all designated States except US)*: MEDICAL BIOSYSTEMS LTD. [GB/GB]; The Old Mill, Beaston Cross, Broadhempston, Nr. Totnes, Devon TQ9 6BX (GB).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: DENSHAM, Daniel, Henry [GB/GB]; The Old Mill, Beaston Cross, Broadhempston, Nr. Totnes, Devon TQ9 6BX (GB).

(74) Agent: GILL JENNINGS & EVERY; Broadgate House, 7 Eldon Street, London EC2M 7LH (GB).

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(54) Title: POLYNUCLEOTIDE SYNTHESIS USING A PROCESSING ENZYME

(57) Abstract

A method for polynucleotide synthesis, comprises the steps of: (i) reacting a polynucleotide processive enzyme, e.g. a polymerase or TdT, with a nucleotide substrate under conditions suitable for enzyme activity; and (ii) modulating the conformation of the enzyme, e.g. using radiation, to allow incorporation of a predetermined nucleotide.