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(71) Applicant: **CYGENE, INC.** [US/US]; 7786 Wiles Road, Coral Springs, FL 33067 (US).

(72) Inventors: **ERITJA, Ramon**; Viriato 43, 5, 1, E- 08014 Barcelona (ES). **Garcia, Ramon, G.**; Otto-Hahn Platz 7, D- 69126 Heidelberg (DE).

(74) Agent: **COCHENOUR, Craig, G.**; Buchanan Ingersoll, P.C., One Oxford Centre, 20th Floor, Pittsburgh, PA 15219 (US).

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(54) Title: PARALLEL STRANDED DUPLEXES OF DEOXYRIBONUCLEIC ACID AND METHODS OF USE

(57) Abstract: A triplex comprising a hairpin having at least one polypirimidine sequence linked to a complementary polypurine wherein the polypurine sequence is at least one 8-aminoprurine such as 8-aminoadenine, 8-aminoguanine and 8-aminohypoxanthine, and at least one polypyrimidine target sequence that that is complementary and antiparallel to the polypurine sequence. The polypurine sequence binds the polypyrimidine target sequence by forming a triplex helix. Methods for preparing the hairpins and for stabilizing thentriplex are provided. Methods for targeting single-stranded oligonucleotides and DNA is described using the hairpins and triplexes of this invention.