

Title (en)
COPOLYMERS FOR THE TRANSFER OF NUCLEIC ACIDS TO THE CELL

Title (de)
COPOLYMERE FÜR DEN TRANSPORT VON NUKLEINSÄUREN IN DIE ZELLE

Title (fr)
COPOLYMERES POUR LE TRANSPORT D'ACIDE NUCLEIQUE DANS LES CELLULES

Publication
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Application
EP 00947874 A 20000623

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• EP 0005869 W 20000623
• EP 99112260 A 19990625

Abstract (en)
[origin: EP1063254A1] Charged polymer derivatives (I) comprising a cationic or anionic peptide or peptide derivative, a spermine or spermidine derivative, a glycosaminoglycan or a non-peptide oligo- or poly-cation or -anion linked to an amphiphilic polymer are new. Charged polymer derivatives (I) comprising a cationic or anionic peptide or peptide derivative, a spermine or spermidine derivative, a glycosaminoglycan or a non-peptide oligo- or poly-cation or -anion linked to an amphiphilic polymer are new. R = an amphiphilic polymer or a homo- or heterobifunctional derivative of an amphiphilic polymer; X = an amino acid, an amino acid derivative, a peptide, a peptide derivative a spermine or spermidine derivative, d-C(a)(c)b or N(a)(b)c, substituted aromatic ring with three functional groups W1Y1Z1 (W1, Y1 and Z1 are not defined); a = H or optionally halo- or dialkylamino-substituted 1-6C alkyl; b, c, d = H or optionally halo- or dialkylamino-substituted 1-6C alkylene; W, Y, Z = CO, NH, O, S or linked groups reactive with SH, OH, NH or NH2; E = a cationic or anionic peptide or peptide derivative, a spermine or spermidine derivative, a glycosaminoglycan or a non-peptide oligo- or poly-cation or -anion; m, n = 0-2; p = 3-20 and l = 1-5. Independent claims are also included for the following: (1) a compound (I) coupled to a ligand for a higher eukaryotic cell; (2) a complex comprising one or more nucleic acid molecules and one or more compounds (I); (3) a complex comprising one or more nucleic acid molecules condensed with organic polycation or cationic lipid molecules, with a compound (I) bound to its surface through ionic interaction.

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IPC 8 full level
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