

CLAIMS

1. A compound of hyaluronic acid and at least one heterocycle derived from purine and/or pyrimidine, said compound being further associated with at least one different organic compound selected from naturally occurring amino acids in the single, oligomeric or polymeric form, for its use in the treatment of skeletal conditions, in particular in the regeneration of hard tissues.
2. The compound for the use according to claim 1, wherein said at least one heterocycle is thymine.
3. The compound for the use according to claim 1 or 2, wherein said at least one different organic compound is lysine.
4. The compound for the use according to anyone of the preceding claims, wherein the bond between said hyaluronic acid, said heterocycle and said naturally occurring amino acid is a chemical bond of ionic type.
5. The compound for the use according to anyone of the preceding claims, wherein said compound of the hyaluronic acid is T-LysYal[®], which comprises hyaluronic acid in combination with lysine and thymine.
6. The compound according to anyone of the preceding claims, for its use in the induction and stimulation of cell differentiation in the osteogenic and chondrogenic lineage of mesenchymal stem cells.
7. The compound for its use according to claim 6, wherein said mesenchymal stem cells are stem cells of the dental germ.
8. An implantable scaffold comprising a compound of hyaluronic acid and at least one heterocycle derived from purine and/or pyrimidine, said compound being further associated with at least one different organic compound selected from naturally occurring amino acids in the single, oligomeric or polymeric form.
9. The implantable scaffold according to claim 8, for its use in the treatment of skeletal conditions, in particular in the regeneration of hard tissues.
10. A pharmaceutical formulation comprising a compound of hyaluronic acid and at least one heterocycle derived from purine and/or pyrimidine, said compound being further associated with at least one different organic compound selected from naturally occurring amino acids in the single, oligomeric or polymeric form, for its use in the

treatment of skeletal conditions, in particular in the regeneration of hard tissues.