Abstract: Bone matrix compositions and, more specifically, demineralized bone matrix (DBM) having increased osteoinductive capacity and methods for its production are provided. Specifically, DBM derived from cortical bone from the periosteal layer of bone are provided. Compositions comprising a disproportionate amount of DBM prepared from bone derived from the periosteal and/or middle layer of bone are provided. Preparations of and methods of use of periosteal DBM compositions are disclosed.
INTERNATIONAL SEARCH REPORT

International application No
PCT/US2008/080498

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61L27/36 A61L27/50 A61L27/54

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
A61L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, BIOSIS, EMBASE, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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D. Further documents are listed in the continuation of Box C.

X. See patent family annex.

- Special categories of cited documents
  - "A" document defining the general state of the art which is not considered to be of particular relevance
  - "E" earlier document but published on or after the international filing date
  - "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
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- Document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- Document member of the same patent family

Date of the actual completion of the international search: 15 October 2009

Date of mailing of the international search report: 23/10/2009

Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel: (+31-70) 340-2040, Fax: (+31-70) 340-3016

Authorized officer: Cadamuro, Sergio
# INTERNATIONAL SEARCH REPORT

**International application No**

PCT/US2008/080498

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