



Supplementary Materials

KGBR: A Domain-Specific Knowledge Graph for Bone Regeneration Research

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Table S1. Review papers identified by querying the immune system subgraph (SNOMED CT ID: 116003000) and filtering article titles containing the term “review”.

No.	PMID	Title
1	33007863	Macrophage Polarization and Osteoporosis: A Review
2	33082950	Role of skeletal macrophages in fracture repair: A systematic review
3	34221025	The Crosstalk between Mesenchymal Stem Cells and Macrophages in Bone regeneration: A Systematic Review
4	34576310	Impacts of Hypoxia on Osteoclast Formation and Activity: Systematic Review
5	35120918	Reappraising the role of flavanols, flavones and flavanones on osteoblasts and osteoclasts: A review on its molecular mode of action
6	35196145	Macrophages and Bone Marrow Derived Mesenchymal Stem Cells Work in Concert to Promote Fracture Healing: A Brief Review
7	35979176	Modulating macrophage polarization for the enhancement of fracture healing: a systematic review
8	36817259	The role of macrophages in fracture healing: a narrative review of the recent updates and therapeutic perspectives
9	37257287	Macrophage polarization in bone implant repair: A review
10	37927000	The bidirectional effect of neutrophils on periodontitis model in mice: A systematic review
11	38253189	Is there a role for N1/N2 neutrophil phenotypes in bone regeneration? A systematic review
12	38391677	Bone Formation and Maintenance in Oral Surgery: The Decisive Role of the Immune System—A Narrative Review of Mechanisms and Solutions
13	38965076	The efficacy of Platelet and Leukocyte Rich Fibrin (LPRF) in the healing process and bone repair in oral and maxillofacial surgeries: a systematic review
14	39340960	Contribution of macrophage polarization in bone metabolism: A literature review
15	39372603	Osteoclast indices in osteogenesis imperfecta: systematic review and meta-analysis
16	40508228	Mediation of Osseointegration, Osteoimmunology, and Osteoimmunological Integration by Tregs and Macrophages: A Narrative Review
17	40771725	Physical cues in biomaterials modulate macrophage polarization for bone regeneration: a review
18	40856870	Efficacy of Platelet and Leukocyte Rich Fibrin (LPRF) in the healing process and bone repair in maxillary sinus lift surgeries: a systematic review

Supplementary Table S2. Immune cell-related concepts most frequently represented in recent bone regeneration publications identified using KGBR



Table S2. Immune cell-related concepts identified from the immune system subgraph of KGBR and ranked by the number of distinct PubMed records associated with each concept.

Rank	Immune Cell-Related Concept	Number of Distinct PubMed Records
1	Macrophage (cell)	690
2	Osteoclast (cell)	396
3	Polymorphonuclear leukocyte (cell)	50
4	Segmented neutrophil (cell)	50
5	Monocyte (cell)	42
6	T lymphocyte (cell)	40
7	Leukocyte (cell)	30
8	B lymphocyte (cell)	13
9	Helper T cell (cell)	11
10	Peripheral blood mononuclear cell (cell)	11
11	Eosinophil, segmented (cell)	8
12	Lymphocyte (cell)	8
13	Microgliocyte (cell)	8
14	Kupffer cell (cell)	7