

Supplementary Table 1.

Explanation of selected abbreviations and terms used in the review

Abbreviation/ Term	Expanded Term/Definition	Comments
ABM	anorganic bone matrix	e.g., hydroxyapatite
Ad	adenovirus	
allograft	grafted tissue derived from another individual of the same species, e.g., humans	
autogenic/autogenous	generated in the body; self-produced	
autograft	grafted tissue derived from the host	
BCP	biphasic calcium phosphate	
BDNF	brain-derived neurotrophic factor	
BMP	bone morphogenetic protein	growth factor stimulates regeneration of periodontal tissue, especially alveolar bone
BMP-2		polypeptide
BMP-6		also known as OP-1
BMP-7		
BMSCs	bone marrow stromal cells	subgroup of MSCs
CAL	clinical attachment level	
cytosol	intracellular fluid, cytoplasmic matrix	
EDTA	ethylenediaminetetraacetic acid	colorless chelating agent keeping blood from clotting in lab
EMD	enamel matrix derivative	a mixed peptide combination from immature enamel of ≈6-month-old piglets
ES cells	embryonic stem cells	
FDA	Food and Drug Administration	
FGF-2	fibroblast growth factor-2	binds heparin; broad mitogenic and angiogenic capabilities
GBR	guided bone regeneration	
GDF-5	growth and differentiation factor-5	plays important role in joint development
GFP	green fluorescent protein	cell labeling technique
GTR	guided tissue regeneration	
HA	hydroxyapatite	
HA/TCP	hydroxyapatite/tricalcium phosphate	
HPC	hydroxypropyl cellulose	
iPS cells	induced pluripotent stem cells	generated from somatic cells through forced expression of specific genes
LIM	Lin11, Isl-1, and Mec-3 (the proteins initially discovered)	unique double-zinc finger motif found in a variety of proteins
LMP	LIM domain mineralization protein	
LMP-3		a transcription variant of LMP lacking LIM domains
MSC	mesenchymal stem cell	adult pluripotent stem cell
Nd:YAG	neodymium:yttrium-aluminum-garnet	
OP-1	osteogenic protein-1	also known as BMP-7
osterix	a transcription factor	functions in osteoblast differentiation and bone formation
P-15	synthetic peptide-binding protein	polypeptide consisting of 15 amino acids, mimics cell-binding domains of Type I collagen
PD	probing depth	

Abbreviation/ Term	Expanded Term/Definition	Comments
PDGF-BB	platelet-derived growth factor-BB	promotes wound healing in hard and soft tissue, affecting cell proliferation, migration, and angiogenesis
PDL	periodontal ligament	
peptide	string of amino acids	building block in protein
progenitor cell	biologic cell with tendency to differentiate	more specific than an adult stem cell; differentiates into its “target” cell type
protein	large biologic molecules, or macromolecules, consisting of one or more chains of amino acid residues	proteins perform a vast array of functions within living organisms, including catalyzing metabolic reactions, replicating DNA, responding to stimuli, and transporting molecules
PRP	platelet-rich plasma	often used in gel form
PTH	parathyroid hormone	
RCTs	randomized controlled trials	
SOST	sclerostin	osteocyte-specific protein and bone anabolic agent, coded by the SOST gene in humans
SRP	scaling and root planing	
teriparatide	recombinant form of PTH	
TCP	tricalcium phosphate	
VEGF	vascular endothelial growth factor	
<i>Wnt-4</i>	wingless-type MMTV integration site family, member 4	gene
xenogenic	from a different species	
xenograft	graft derived from a different species	e.g., a bovine graft used in a human