

Subject Index

A

Absorbable collagen sponge, 150
 Adventitious agents, 176
 Aging, 77
 Alginate, 172
 standards, 137
 Allograft, 47
 processing, 54
 Anhydrobiosis, 197
 Artificial skin, 12
 Assays, 176

B

bFGF, 254
 Bioinformatics, 40
 Biological safety, 176
 Biological tissue constructs, 120
 Biomarkers, 84, 246, 254
 Biomechanical properties, 67
 Biomechanics, 67
 Biopolymers, 137
 Biopreservation, 197
 Biosynthetic response, 77
 Bone, 100
 Bronchoscopic lung, 20

C

Cartilage, mechanical properties, 67
 Cartilage injury, 67, 77
 CE-SSCP, 246
 Cell characterization, 40
 Cell culture, 100
 Cell differentiation, 254
 Cell growth, monitoring, 59
 Cell-material interactions, 40
 Cellular damage, 246
 Chitosan, 172
 standards, 137
 Chondrocyte viability, 67, 77
 Coherence microscopy, 59
 Collagen, 172
 Complex moduli, 120
 Connexin43, 254

Cortical bone, 47
 Cryopreservation, 197

D

Demineralized bone matrix, 90
 DHPLC, 246
 Disease transmission, 54
 DNA, 40
 oxidative damage, 84

E

Elastic modulus, 67
 Emphysema, 20
 Encapsulation, 137
 Endpoint determination, 90

F

F 2064, 137
 F 2103, 137
 Fast Fourier transform, 120
 Fibrin gels, 20
 Fluorescence microscopy, 59
 Fracture repair, 150
 Free radical damage, 84
 Freeze-drying, 197

G

Gap junction, 254
 Genetic damage, 246
 Glycosaminoglycan, 67, 77

H

Human dermal fibroblast, 254
 Human papillomavirus, 12
 Hyaluronate, 172
 Hydrogel, 20
 Hypothermic storage, 197

I

IL-1beta stimulation, 67, 77
 InnervTube, 182
 Intercellular communication, 254

K

KGF, 254

M

Material characterization, 40, 47, 120
 Measurement technologies, 40
 Mechanical properties, 47, 120
 Mechanical testing, 47
 Mesenchymal cells, 120
 Microbiological contamination, 176
 Morphology, 3, 59

N

National Institute of Standards and
 Technology, 40
 Natural materials, characterization, 172
 Neural guidance conduit, 182

O

OCT, 59
 Osteoblasts, 100
 Osteoinductive properties, 150

P

PCR, 12
 Pore size, 3
 Porosity, 3
 Pre-market approval, 182

R

Recombinant bone morphogenetic
 protein-2, 150
 Risk management, 226

S

Safety, 12
 SRM, 40
 Stabilization, 197
 Standard reference materials, 40
 Standards, 40, 172
 alginate and chitosan, 137
 international, 226
 testing, 182
 Stereomicroscopy, 90
 Sterilization, 54
 Storage, 197
 Surface characterization, 40

T

Test methods, 4, 176
 Tissue scaffolds, 3, 40, 59, 137, 172
 TP53, 246
 Transport, 197
 Trauma, 67, 77
 Tumor promotion, 254

V

Virus, 176
 Viscoelastic, 120
 Vitrification, 197
 Volume reduction therapy, 20

Y

Y-chromosome, 246