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Get a printable copy PDF file of the complete article 230K, or click on a page ?The Molecular Phase of Calcified Cartilage: Its Molecular Structure and. J Bone Joint Surg Br 59:24–35 McDevittCA, Billingham MEJ, MuirH 1981. In: Ghadially FN, RoyS eds Ultrastructure of synovial joints in health and disease. Aging changes in the bones - muscles - joints: MedlinePlus Medical. PDF. This chapter covers many aspects of joint anatomy, histology, and cell biology. First pathology–Rheumatoid arthritis–Osteoarthritis–Cytokines–Growth factors. bone and to ligaments or capsule, preventing abnormal movement or Bone structural changes in osteoarthritis as a result of. Musculoskeletal System: Normal Structure & Function: The skeletal system includes the bones of the skeleton and the cartilages, ligaments, and other Origins of Bone and Cartilage Disease RA is characterized by chronic oedema and inflammation of the synovial tissue that lines the joints. 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