Biomarkers in Bone Disease

Series: Biomarkers in Disease: Methods, Discoveries and Applications

- Embraces a holistic approach to many conditions that affect the skeletal system
- Describes biomarkers in terms of conventional, new and emerging analytes, techniques, platforms and applications
- Updates scientists and professionals on advances across the disciplines
- Identifies key facts and defines words and terms for the lay person
- Opens the field to all readers inquiring into this imperative area of research

There are many conditions that affect the skeletal system. On a worldwide basis, osteoarthritis alone affects 10%-15 percent of those over 60 years of age and in some countries more than 30-50% of postmenopausal women will have osteopenia or osteoporosis. With the increasing ageing population, maintaining skeletal health is particularly important. Fractures in the aged, for example, can lead to premature deaths. It is therefore imperative that appropriate use is made of conventional, new and emerging biomarker platforms. Biomarkers in Bone Disease embraces a holistic approach by combining information on different conditions that affect the skeletal system and the use of biomarkers. Biomarkers are described in terms of conventional, new and emerging analytes, techniques, platforms and applications. It covers the latest knowledge, trends and innovations. New platforms are described which combine advances in biomedical sciences, physics, computing and chemistry.