

HCB.C411-02

Interdisciplinary Research Fundamentals I 2 [Biomaterials]

Course description and aims:

Biomaterials have been used as functional materials in various application fields. Both the chemical structure (molecular structure) and the aggregate structure (solid-state structure and surface structure) of biomaterials act as an important factor in regulating their properties and functions. By this lecture, I survey it about the relationships between properties and functions of biomaterials and the molecular structure, solid-state structure, and surface structure, and also explain it about the basic way of thinking for designs of biomaterials having appropriate performance.

Day/Period (Room No.) Mon 3-4 (G223)

1. 4/12 Mon. Syntheses and molecular structure of biomaterials-1
2. 4/19 Mon. Syntheses and molecular structure of biomaterials-2
3. 4/26 Mon. Solid-state structure and properties of biomaterials-1
4. 5/10 Mon. Solid-state structure and properties of biomaterials-2
5. 5/17 Mon. Surface structure and functions of biomaterials-1
6. 5/24 Mon. Surface structure and functions of biomaterials-2