

Nakano Laboratory

Intelligent Materials Processing Area, Biomaterials and Structural Materials
Design Sub-Area, Division of Materials and Manufacturing Science

Research subjects

Our investigations include the evaluation of biological tissues, the formation mechanisms of tissues both *in vivo* and *in vitro*, and the development of novel biomaterials which can function as or better than the original biological tissues, based on a materials science point of view. We focus on the anisotropy that appears in microstructure, cell migration, crystal growth, etc., in an attempt to control these effects by means of metal-based biomaterials or external fields. More generally and in the long term, we aim to establish "Anisotropy in Materials", a new research horizon in Materials Science.

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