

Orthopedic Surgery

2 units (selection) 1st-year(whole year), 2nd-year(whole year), 3rd-year(whole year), 4th-year

Natsuo Yasui(Manager) · PROFESSOR / COURSE OF PATHOLOGIC MEDICINE FOR SENSO-MOTORIC SYSTEM, MEDICAL SCIENCE, Shinsuke Katoh · ASSOCIATE PROFESSOR / COURSE OF PATHOLOGIC MEDICINE FOR SENSO-MOTORIC SYSTEM, MEDICAL SCIENCE, Koichi Sairyo ·

Mitsuhiko Takahashi · ASSISTANT PROFESSOR / COURSE OF PATHOLOGIC MEDICINE FOR SENSO-MOTORIC SYSTEM, MEDICAL SCIENCE

Target) To study the fundamental mechanism of musculo-skeletal development, growth, repair, and regeneration. To learn the current techniques and knowledges for advanced research.

Outline) We give systemic lectures elucidating fundamental mechanism of musculo-skeletal development, growth, repair and regeneration. We focus our attention to introduce the current techniques and knowledges to study the fracture healing process, genes causing skeletal dysplasias, and molecular mechanism of the growth plate. We also explain the growth factors and cytokines that may affect repair and regeneration after spinal cord injury.

Notice) 講義の一部は e-learning 化しているので, e-learning 学習も出席として取り扱う.

Schedule)

	大項目	担当
1.	guidance for musculo-skeletal tissue research	Natsuo Yasui
2.	Matrix contents of bone and cartilage	”
3.	Skeletal growth and development	”
4.	Fracture repair mechanism	”
5.	Bone formation and resorption	”
6.	Aging and regeneration of bone	”
7.	Development, growth and repair of the muscle	Koichi Sairyo
8.	Structure and function of the tendon	Mitsuhiko Takahashi
9.	Structure and function of the nerve	”
10.	Reair and regeneration of the peripheral nerve	”
11.	Development and growth of the spinal vertebra	Koichi Sairyo
12.	Development and growth oa the spinal cord	Shinsuke katoh
13.	Intervertebral disc degeneration	”
14.	Ossification of spinal ligaments	Koichi Sairyo
15.	Genes causing skeletal dysplasias	Natsuo Yasui

Evaluation Criteria) 出席状況と小テストまたはレポート等により評価する.

Contents) <http://cms.db.tokushima-u.ac.jp/cgi-bin/toURL?EID=217611>

Contact)

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- ⇒ 他の教員についても, e-mail にて時間調節の上, 面談して下さい.