

<b>Category</b> (科目区分)	Cluster of Biofunctional Systems		
<b>Course Title</b> (授業科目名)	Biological regulation in surgical field		
<b>Instructors</b> (担当者名)	Junichi Arita	<b>Academic Year</b> (配当年次)	1,2
<b>Required course / Elective Course</b> (必修/選択)	Elective Course	<b>Credits</b> (単位数)	1 credit
<b>Class Format</b> (授業形態)	Lecture, exercise		
<b>Schedule</b> (開講期間)	Contact about the proposed date by e-mail		
<b>Class Date/Period</b> (開講曜日・時間)	Every Thursday, 18:00 – 20:00		
<b>Course Outline/ Course Objectives</b> (授業の概要・到達目標)			
<p>The aim of this course: Understand about surgical indication and biological regulation in response to surgery.  Course Outline: Describe organ damage during surgery and postoperative complications.  Course Objectives:</p> <ol style="list-style-type: none"> <li>1. Understand the types of gastrectomy and complications in relation to the methods of reconstruction.</li> <li>2. Understand the types of colectomy and complications in colorectal surgery.</li> <li>3. Understand the impact of resected liver volume on postoperative liver failure. Learn how to diagnose liver function.</li> <li>4. Understand the basic knowledge of anatomical liver resection.</li> <li>5. Understand the long-term outcomes and quality of life following biliary reconstruction.</li> <li>6. Understand the long-term outcomes and quality of life following pancreaticoduodenectomy.</li> <li>7. Learn the effects of infections on postoperative complications and prognosis.</li> <li>8. Learn the effects of cancer recurrence on biological regulation.</li> <li>9. Understand contribution of radiological imaging on deciding types of surgery.</li> </ol>			
<b>Course Planning</b> (授業計画)			
	<b>Course Outline/ Course Objectives</b> (授業の概要及び到達目標) (Contents of Class) (授業内容)	<b>Instructor</b> (担当教員名)	<b>Department</b> (講座名) <b>Class Room</b> [実施場所]
1	Gastrectomy: Indications and postoperative complications	Junichi Arita	Gastroenterological Surgery [conference room at 1-6 ward]
2	Colectomy: Indications and postoperative complications		
3	Hepatectomy: Indications and postoperative complications		
4	Liver vascular anatomy and safe limits for liver resection		
5	Biliary reconstruction: Technique and postoperative complications		
6	Pancreaticoduodenectomy: Postoperative complications		
7	Infectious complications of gastroenterological surgery		
8	Cancer recurrence and biological regulations		
9	Role of radiological imaging in management of gastrointestinal cancer		
10	Role of endoscopic imaging in management of gastrointestinal cancer		
<b>Grading Criteria</b> (成績評価の基準と方法)			
<p>One credit is 45 hours in total, consisting of 20 hours of practical training in a lecture room (laboratory) and 25 hours of self-study training.  Evaluation will be based on attendance, oral examinations and submitted reports.</p>			
<b>Contact Information</b> (問い合わせ先(氏名, メールアドレス等))			
Name: Junichi Arita / E-mail: jarita@med.akita-u.ac.jp			
<b>Comment</b> (その他特記事項)			
<p>Information about the course: If you are a working graduate student and cannot attend the practical training due to work, we will adjust the schedule.  Textbooks and reference materials: Materials will be distributed as necessary.  Content of study during self-study time: It is desirable to conduct preparatory study according to the objectives and class content.</p>			