

<b>Category</b> (科目区分)	Research subject		
<b>Course Title</b> (授業科目名)	Urology		
<b>Instructors</b> (担当者名)	Tomonori Habuchi	<b>Academic Year</b> (配当年次)	2,3
<b>Required Course / Elective Course</b> (必修/選択)	Elective Course	<b>Credits</b> (単位数)	15
<b>Class Format</b> (授業形態)	Lecture, Experimental practice and Exercise, Webclass (on demand)		
<b>Schedule</b> (開講期間)	Schedule will be notified to participants directly by email.		
<b>Class Date/Period</b> (開講曜日・時間)	Schedule will be notified to participants directly by email.		
<b>Course Outline/ Course Objectives</b> (授業の概要・到達目標) Course Outline: 1) Urology deals with diseases of the male and female urinary tract (kidney, ureter, bladder and urethra), as well as with the male and female genital organs. Given urology is a surgical specialty, besides surgical therapeutics, urologists should have knowledge of internal medicine, pediatrics, gynecology and other parts of health care. The scope of urology is wide, so a urologist can expect to encounter a wide range of clinical problems. 2) Especially, our tem in Akita Univ. is focusing on urologic oncology, minimally invasive urologic surgeries and kidney transplantation. We are applying modern molecular biology and genetics to delineate the mechanisms of urologic malignancies and rejection/deterioration of transplanted kidneys. We are now trying to create novel methods to overcome these problems. The graduate students should learn and master these problems in urologic oncology and kidney transplantation, their strategies and modern methodologies to overcome such problems.  Course Objectives: 1) To learn the mechanisms and modern views on cancers of the kidney, prostate, upper urinary tract and bladder, testis and other urologic organs. 2) To learn standard and state-of-art diagnosis and treatment of urologic tumors. 3) To learn transplantation immunology and the preservation of kidney function in kidney transplantation. 4) To learn modern minimally invasive surgical approach in urologic surgeries, especially robotic surgeries. 5) To learn up-to-date of modern molecular genetics and biology in the field of urologic oncology and kidney transplantation. 6) To learn pediatric urological management and surgeries.			
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<b>Coment</b> (その他特記事項)  The graduate students are highly expected to present papers in international medical/scientific meetings and to publish a paper(s) in an internationally acknowledged medical/scientific journal(s). Each student is required to learn a lot from up-dated version of medical and scientific information from WEB voluntarily.			