

科目ナンバリング		U-LAS70 10002 SE50					
授業科目名 <英訳>	ILAS Seminar-E2 :From Traditional Herbal Remedies to Robotics and Gene Editing: Breakthroughs in Medical Treatments (漢方からロボット手術と遺伝子編集まで: 治療におけるブレイクスルー)			担当者所属 職名・氏名	医学研究科 助教 LUO , Yan		
群	少人数群	単位数	2単位	週コマ数	1コマ	授業形態	ゼミナール (対面授業科目)
開講年度・ 開講期	2024・前期	受講定員 (1回生定員)	12 (10) 人	配当学年	主として1回生	対象学生	全学向
曜時限	水5	教室	共北23			使用言語	英語
キーワード	Healthcare / Medicine / Treatment / Technology / Therapy						
【授業の概要・目的】							
<p>This course offers an overview of cutting-edge scientific and technological innovations driving the forefront of modern medicine. Students will comprehend how breakthroughs in genetics, immunology, and other disciplines are reshaping the treatment of diseases. We will discuss the effectiveness assessment of these treatments and therapies. By critically evaluating clinical trials and evidence-based studies, students will grasp the significance of evidence in determining the viability of new medical interventions. At the same time, this course will put an emphasis on patients' values and preferences in medical decision making. Students will recognize the importance of patient-centered care and the role patients play in shaping their own treatment paths. Ethical considerations surrounding new medical breakthroughs will also be explored. Additionally, students will be encouraged to envision the prospects and potential of future medicine. The class incorporate lectures, presentations, and discussions to facilitate learning and engagement.</p>							
【到達目標】							
<p>1.To explore the science and technology behind medical breakthroughs. 2.To recognize the significance of patient values and patient-centered care. 3.To understand and critically assess ethical challenges associated with scientific and technological advancements. 4.To enhance the skills of information collection, critical thinking and problem solving. 5.To acquire a general understanding of evidence-based medicine and informed decision making.</p>							
【授業計画と内容】							
<p>In principle, the course will be offered according to the following plan. The order and content may be subject to slight changes.</p> <p>Week 1: Introduction - Overview of medical innovations Week 2: Ancient wisdom - Traditional herbal remedies and alternative medicine Week 3: Battling bacteria - Antibiotics Week 4-5: Preparing for infection - Vaccines Week 6-7: Tackling cancer - Targeted therapy, stem cell therapy, and immunotherapy Week 8-9: From barbers to robotics - Advancements in surgical techniques</p>							
<p>ILAS Seminar-E2 :From Traditional Herbal Remedies to Robotics and Gene Editing: Breakthroughs in Medical Treatments (漢方からロボット手術と遺伝子編集まで: 治療におけるブレイクスルー)</p>							

Week 10-11: From dialysis to transplantation - Organ replacement therapies

Week 12: Life-saving innovations - Critical care technologies

Week 13: Genetic revolution: Gene editing and genetic therapies

Week 14: Minds transformed - From lobotomy to innovative psychiatric treatments

Week 15: Poster session

Week 16: Feedback

【履修要件】

特になし

【成績評価の方法・観点】

Attendance and active participation - 50%

Presentation - 25%

Poster session - 25%

【教科書】

No textbook will be used. Materials will be provided in class or on Panda.

【参考書等】

(参考書)

Materials will be provided in class or on Panda.

【授業外学修（予習・復習）等】

Students are expected to complete assignments after some lectures.

【その他（オフィスアワー等）】

Students may ask questions or request to schedule an in-person appointment via email.