

2025 年度（第 1 回） 名古屋大学大学院医学系研究科博士課程入(進)学試験

外国語（英語）試験問題

Entrance Examination for the Doctoral Course of Nagoya University
Graduate School of Medicine 2025 (August exam)
English Examination (Mandatory for All Examinees)

第 123 回論文博士外国語試験 英語試験問題

試験時間 2024 年 8 月 1 日（木）9:00 – 11:00

Examination Date and Time August 1, 2024 (Thu.) 9:00 – 11:00

【注意事項】 Exam rules and regulations

- 受験票を机上に置いてください。
Put your admission ticket for the examination on the desk.
- 試験中は、時計（計時機能だけのもの）、筆記用具以外の使用は認めません。
You are allowed to have in your possession or access to only permitted items such as watches/wristwatches which function as a clock only and writing instruments during the exam.
- 全ての携帯電話・スマートフォンなどの電源は必ず切ってカバンの中にしまってください。
You must turn off your smartphone and any digital devices. Put them in your bag.
- 試験は監督者の時計により実施します。
The exam will be timed by the invigilator's watch.
- 試験時間中の退室はできません。トイレに行きたくなった場合は手を挙げて待ち、試験監督者の指示に従ってください。
You will not be allowed to leave the exam room during the exam. If you need to use the toilet, you should notify the exam invigilators by remaining seated and raising your hand. Follow the instructions from the invigilators.
- 試験終了後は、指示をするまで退室しないでください。
You are not allowed to leave the room until granted permission by the invigilator after the exam is done.
- 問題冊子には、指示があるまでさわらないでください。
You are not allowed to touch question papers until instructed to do so.
- 開始と同時にまずは試験問題および解答用紙の枚数を確認してください。表紙を含み、全部で 9 枚です。試験問題は、[1] が 2 枚、[2] が 2 枚の計 4 枚、解答用紙は、[1] が 2 枚、[2] が 2 枚の計 4 枚です。
As soon as the exam begins, make sure that you have nine sheets including a cover sheet. The second and third sheets are for exam question [1], the fourth and fifth sheets are for the exam question [2], the sixth and seventh sheets are for answering the exam question [1] and the eighth and ninth sheets are for answering the exam question [2].
- 解答する前にホチキスははずしてください。
Remove the staples before you start answering.
- 4 枚の解答用紙には氏名を記入せず、受験番号のみを記入してください。
You are not allowed to write your name anywhere in the answer sheets. Write down your Examinee's number only in the indicated areas.
- 問題は 2 題あるので 2 題とも解答し、[1]、[2] それぞれの解答用紙に記入してください。
There are two questions, and you must answer both. Write your answers on each answer sheet.
- 解答欄が足りない場合は、「続く」と明示し解答用紙の裏面に記入してください。
If there is no more space to answer, you must specify "Continue" and go on the back of the answer sheet.
- 不明な点がある場合は、挙手によりお知らせください。
If you have a question at any time, you must raise your hand and wait until an invigilator comes to you.

令和8年度については、TOEFL ITPの文法及びリーディングセクションを用いて実施する。

英語試験問題 [1]
English Examination (Mandatory for All Examinees)

[1]

Read the following texts taken from two articles: (A) [Nature Vol. 628, p.13-14, 2024] and (B) [The New York Times on May 12, 2024], and answer the questions in **English** or **Japanese**.

Article (A)

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Article (B)

Subsequent events [reported after Article (A)]

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***注釈; Glossary**

lurking: 潜んでいる; lying dormant, being hidden.

US Food and Drug Administration: アメリカ食品医薬品局;

a US federal agency responsible for protecting and promoting public health.

complications: 合併症; concurrent diseases.

CRISPR–Cas9 genome editing: ゲノムの特定部位を狙って DNA 配列を改変する技術;

a technology to modify genomic DNA sequence at a specific target site.

cynomolgus macaques: カニクイザル; crab-eating (or long-tailed) macaques.

compromised immune systems: 機能低下した免疫システム; weakened immune systems.

tainted: 汚染された, 有害物質を含んだ; polluted or contaminated.

latent: 潜伏した; present but needing particular conditions to become active.

porcine: ブタの; relating to pigs.

linger: いつまでも残る, 居残る; to take a long time to leave or disappear.

metric: 測定基準; a system for measuring something.

英語解答用紙 [1]
English Examination Answer Sheet

Q1. What is the humanitarian rationale for which FDA has approved clinical xenotransplantation?

Answer : _____

Q2. Which **TWO** pig organs, aside from kidneys, does eGenesis plan to transplant into humans?

Answer : _____, _____

Q3. Select the most suitable word for “⁽¹⁾()” from the options below.

- a) high
- b) quick
- c) deep
- d) long

Answer : _____

Q4. What does “⁽²⁾it ” indicate?

Answer : _____

Q5. How many human genes were incorporated into the miniature pig used for xenotransplantation, and what was the purpose of their introduction?

Answer : the number, _____

 : the purpose, _____

Q6. Select the most suitable word for “⁽³⁾()” from the options below.

- a) mutated
- b) edited
- c) embedded
- d) fragmented

Answer : _____

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English Examination Answer Sheet

Q7. What was the primary concern of the FDA regarding the pig kidney transplant?

Answer :

Q8. Describe **TWO** lines of physiological evidence suggesting that the transplanted pig kidney was functioning well during and after the surgery in Mr. Slayman's case.

Answer :

1)

2)

Q9. Select **TWO** sentences from the options below that align with the descriptions in this article.

- a) Genome editing technology plays an important role in xenotransplantation.
- b) The first pig kidney transplant was performed by Dr. Kawai in Japan.
- c) A full-scale clinical trial of pig organ transplantation in patients has already been approved in the United States.
- d) Rejection and infection are important issues in xenotransplantation.
- e) Mr. Slayman had never undergone a kidney transplant before the pig kidney transplant.

Answer : _____, _____

Q10. Select the most suitable title for this article.

- a) Warnings in miniature pig-to-human xenotransplantation
- b) Ethical issues in pig-to-human xenotransplantation
- c) First pig kidney transplant in a person: what it means for the future
- d) Animal welfare and xenotransplantation to humans

Answer : _____

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英語試験問題 [2]
English Examination (Mandatory for All Examinees)

[2]

Read the following text taken in part from an article by Michael Liu & David G. Munson (N Engl J Med. Vol. 390, p.2136-2139, 2024), and answer the questions in **English** or **Japanese**.

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***注釈; Glossary**

unsheltered: シェルター（グループホームや救護施設）に入っていない; not in a shelter (group home or rescue shelter).

Department of Housing and Urban Development: 米国住宅都市開発省; the US government department in charge of financial programs to build houses and to help people buy their own homes.

reside: 住む; to live.

habitation: 居住地; the place of living.

prospective cohort study: 前向きコホート研究（ある集団を経時的に追跡する疫学研究法）; epidemiological research methods that follow a population over time.

mortality: 死亡率; the number of deaths in a particular situation or period of time.

brick-and-mortar clinics: （建物にある）実際の診療所; actual clinics (in the building).

Centers for Medicare and Medicaid Services: 米国連邦政府の公的医療保険制度（メディケア、メディケイド）の運営センター; a US federal agency that administers Medicare and Medicaid, public health insurance programs.

reimbursement: 償還, 払い戻し; an act of paying back money to someone who has spent it.

specialty referrals: 専門医への患者の紹介; an act of directing a patient to a medical specialist by a primary care physician.

risk adjustment: 患者の健康状態、医療サービスの利用可能性、およびそれらのサービスの費用に基づいて、医療提供者に支払う金額を計算する方法; a way to calculate what to pay a health provider based on a patient's health, their likely use of health care services and the costs of those services.

deliberate: 計画的な; intentional or planned.

relegate: 追放する; to put someone or something into a lower or less important rank or position.

英語解答用紙 [2]
English Examination Answer Sheet

Q1. Select the sentence that most closely matches the meaning of the underlined sentence (1).

- a) Recent studies show that unsheltered homeless individuals experience worse health outcomes than the general population.
- b) There is no significant difference in health outcomes between unsheltered and sheltered homeless populations.
- c) Health outcomes for all homeless populations are improving.

Answer: _____

Q2. When did national reporting on the size of the unsheltered homeless population commence?

- a) 2000
- b) 2007
- c) 2022
- d) 2023

Answer: _____

Q3. Where do many unsheltered homeless individuals typically reside?

- a) In emergency shelters
- b) In transitional housing
- c) On sidewalks and in vehicles
- d) In brick-and-mortar clinics

Answer: _____

Q4. What significant challenge does the text identify for the unsheltered homeless population within the health care sector?

- a) Overutilization of emergency services
- b) Frequent hospital admissions
- c) Spread of infectious diseases due to low immunization rates
- d) Limited access to primary care and essential services

Answer: _____

Q5. What is the primary goal of the street-medicine movement?

- a) To build more group homes and rescue shelters
- b) To reduce emergency room visits
- c) To bring health care directly to patients in their own environments
- d) To provide temporary housing

Answer: _____

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英語解答用紙 [2]
English Examination Answer Sheet

Q6. What is the purpose of the new place-of-service code (code 27: "outreach site/street") introduced by the CMS?

- a) To raise insurance premiums for the general public to support street-medicine programs
- b) To facilitate reimbursement for services provided on the street
- c) To fund new group homes and rescue shelters
- d) To train new healthcare providers

Answer: _____

Q7. Who are the key members that make up street teams in the street-medicine movement?

Answer: _____

Q8. What additional financial support is expected to be required to sustain street-medicine programs under global payment models?

Answer: _____

Q9. Summarize the text in 5 lines or less.

Answer: _____

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