

平成30年1月24日実施

名古屋市立大学大学院医学研究科博士課程入学試験(2回目)

医学・生物学一般問題(問題用紙1枚、解答用紙2枚)

Select any two of the following four questions, and write your answers on answer sheets provided.

Use one sheet per question (if you need more space for answers, continue them on the reverse side of the sheet). Please make sure that you write the number of question you selected in the answer sheet.

Question 1 “Cancer prevention” is one of the fundamental measures stated in the "Basic Cancer Countermeasures Act" in Japan. Explain what you know about “cancer prevention”.

Question 2 Please describe the mechanism(s) and pathophysiology, and the recently approved therapeutic options, of type I allergy.

Question 3 Please explain differences between life expectancy and healthy life expectancy, and describe concretely what field(s) of medicine (or of medical sciences) you are interested in and what you can contribute to the extension of healthy life expectancy in a super-aging society through your research activity in the field(s).

Question 4 Please explain two detailed methods to quantify some specific protein. Do not forget to describe the names of the methods (or techniques).

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名古屋市立大学大学院医学研究科課程博士外国語試験(2回目) 外国人一英語

I. Read the following sentences and answer the following 4 questions.

この部分に掲載されている文章については、  
著作権法上の問題から掲載することができませんので  
ご了承願います。

この部分に掲載されている文章については、  
著作権法上の問題から掲載することができませんので  
ご了承ください。

Quoted from: Bone & Joint J 99B, 147-150 (2017)

\*the WOLFF trial: Protocol for a randomised controlled trial of standard wound management versus negative pressure wound therapy in the treatment of adult patients with an open fracture of the lower limb: UK Wound management of Open Lower Limb Fractures (UK WOLFF).

(Questions 1 to 2 are listed on the next page)

Question 1 Create an effective title for spreading the information of this article.

Question 2 What is Informed Consent?

(Questions 3 to 4 are listed on the next page)

Question 3 What is Decision-Making Capacity?

Question 4 Regarding the sentence underlined (1), what are the grey areas? Explain this in your own words.

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名古屋市立大学大学院医学研究科課程博士外国語試験(2回目) 外国人一英語

II. Read the following article and answer the following 4 questions.

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著作権法上の問題から掲載することができませんので  
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Quoted and adapted from: *Nature Medicine* 23, 661-2 (2017) (doi: 10.1038/nm.4348)

(Questions 1 to 2 are listed on the next page)

Question 1 Create an effective title for spreading the information of this article.

Question 2 Regarding the underlined portion (1), what are the paradoxical effects of THC, focusing on the hippocampus, a brain region intimately linked to cognitive performance ?

(Questions 3 to 4 are listed on the next page)

Question 3 What is a potential mechanism that might mediate the effects on cognition of THC treatment in aging mice ?

Question 4 Is there any debatable point when you try to set up a translational clinical trial to estimate the THC's effect on cognitive performance?