VUmc_Minor_TSM_2017-01-09_inzage

Wednesday, March 22, 2017 13:55

1 of 50

Until now, the underlying cause of psychosis is unknown. Yet, researchers claim that via knock out of several genes they constructed a transgenic mouse model of psychosis. This model shows the typical clinical signs of psychosis, e.g. delusions and hallucinations.
At which level of validity will this mouse model hamper the translational value towards the human situation?

At the level of:

- face validity and predictive validity
- face validity and construct validity
- face validity, construct validity and predictive validity
- construct validity and predictive validity

IF choice c. is selected
Set score to 1

Correct.

2 of 50

In a new phase III study, 3000 patients take part. 50% of all subjects will be given an active drug and 50% of the subjects will be given a placebo.
The researchers want to estimate the number of patients that will suffer from either moderate or severe side effects. In order to predict these numbers, number needed to treat (NTT) data of a previous phase II study with this drug are used. In this previous phase II study, the NTT for moderate side effects was 7, whereas the NTT for severe side effects was 16.

How many patients are expected to suffer from either moderate or severe side effects in this new phase III study?

- 7 patients with moderate, and 16 patients with severe side effects
- 1493 patients with moderate, and 1484 patients with severe side effects
- 23 patients with moderate, and 9 patients with severe side effects
- 214 patients with moderate, and 94 patients with severe side effects

IF choice d. is selected
Set score to 1

Correct.

3 of 50

Which condition is not part of the FINER criteria for a good research question?

- relevant
- interesting
- experimental
- feasible

IF choice c. is selected
Set score to 1

Correct.

4 of 50

You plan a small-scale clinical trial in patients to measure the efficacy and dosage of a new drug.
What is the drug development phase you are in?

- clinical development phase I
- clinical development phase II
- clinical development phase III
- post-marketing study

IF choice b. is selected
Set score to 1

Correct.

5 of 50

A scientist investigates the association of intracellular calcium levels with cardiomyocyte contraction in order to elaborate whether calcium overload is the reason for contractile dysfunction.

What type of research approach is this?

- integrative
- causative
- reductionist

IF choice c. is selected
Set score to 1

Correct.

6 of 50

What directive is the basis for the law on animal experiments?

- a Dutch directive
- a US directive
- a European directive
- a global directive

IF choice c. is selected
Set score to 1

Correct.

7 of 50

What is determined in a drug effectiveness study?

- effectiveness determines whether a drug produces an outcome in a well-controlled setting
- effectiveness determines whether a drug produces an outcome under day-to-day circumstances
- effectiveness determines whether a drug produces an outcome together with high compliance

---

IF choice b. is selected
Set score to 1

Correct.

8 of 50

For an animal experiment, a scientist is considering the use of dogs, rats or fish.

Are these animal species equally valued, or is there an existing hierarchical classification with respect to the ability to suffer?

- there is a hierarchy with respect to the ability to suffer based on a socio-zoological scale
- there is a hierarchy with respect to the ability to suffer based on brain volume
- there is a hierarchy with respect to the ability to suffer based on pain thresholds
- dogs, rats and fish are considered to be equal with respect to the ability to suffer

---

IF choice a. is selected
Set score to 1

Correct.

9 of 50

You work with a rat model in which you replace one allele of a gene with a gene that inhibits the development of heart failure.

What type of genetically modified rat model is this?

- heterozygous knock-out
- homozygous knock-out
- heterozygous knock-in
- homozygous knock-in

IF choice c. is selected
Set score to 1

Correct.

10 of 50

Preclinical research shows very promising results of a new drug in rats.

What is the correct order of testing this drug before implementation in clinical practice?

- safety & dose-ranging, safety & efficacy, safety & effectiveness, long-term effects
- safety & efficacy, safety & dose-ranging, safety & effectiveness, long-term effects
- safety & effectiveness, safety & efficacy, safety & dose-ranging, long-term effects

IF choice a. is selected
Set score to 1

Correct.

11 of 50

Which of the 3Rs should be considered first in the design of animal experiments?

- reduction
- replacement
- refinement

IF choice b. is selected
Set score to 1

Correct.

12 of 50

For which type of research are animal experiments no longer allowed in the Netherlands?

- drug toxicity testing
- testing of medical devices
- testing of cosmetic ingredients
- testing of skin sensitizing products

IF choice c. is selected
Set score to 1

Correct.

13 of 50

Cultured skin equivalents are able to mimic a number of characteristics of intact in vivo skin.

Which skin characteristics can be mimicked in cell cultured skin equivalents at present?

- the dermal elasticity
- the epidermal barrier
- the hair growth
- epidermal and dermal characteristics

IF choice d. is selected
Set score to 1

Correct.

14 of 50

Which of the following questions contains all information you need for a PICO?

- is propranolol effective in elderly adults?
- how effective is propranolol compared to an ACE inhibitor in patients undergoing cardiac surgery?
- is propranolol superior to an ACE inhibitor in the treatment of arrhythmias in patients undergoing cardiac surgery?
- does propranolol influence the occurrence of arrhythmias?

IF choice c. is selected
Set score to 1

Correct.

15 of 50

Your daughter of 13 years old is asked to participate in a medical study focusing on changes in growth hormones in subjects of 6-20 year old. The study requires an oral mucosa specimen with the aid of a cotton swab.

Does this study fulfill the criteria of the Medical Research Involving Human Subjects Act (WMO)?

- no, because it is an interventional clinical study
- yes, because it is non-therapeutic research without discomfort
- yes, because this study can only be executed in children

IF choice b. is selected
Set score to 1

Correct.

16 of 50

You would like to know how doctors and nurses look at the status of euthanasia in cases of advanced dementia and write a research proposal to investigate this study objective.
You approach 10 doctors and 10 nurses for a semi-structured interview in which their opinion about euthanasia in case of advanced dementia is questioned.
At the end of your study you hope to be able to write a scientific publication on this topic.

Does this research proposal require ethical review by the medical research ethics committee (MREC)?

- yes, you are required to approach the MREC for a non-WMO declaration
- no, because the study proposal does not include medical/scientific research
- no, because subjects are not exposed to procedures or are required to follow rules of behavior
- yes, this is a study proposal that fulfills the criteria of the Medical Research Involving Human Subjects Act (WMO)

IF choice a. is selected
Set score to 1

Correct.

17 of 50

As part of an internship study of a medical student a pilot study is designed in 8 intensive care patients. The internship period may take up to 4 months, and there is therefore some urgency to complete the study within this time frame.
Therefore, the principle investigator decides to also include incapacitated patients. Incapacitated patients constitute a majority of the intensive care population.

Unfortunately, your research proposal is rejected by the medical research ethics committee (MREC). Due to which ethical principle the research proposal is rejected?

- subsidiarity
- clinical equipoise
- integrity
- proportionality

IF choice a. is selected
Set score to 1

Correct.

18 of 50

When an investigator performs a study with a medicinal product, side effects of the study medication may occur. In case of severe side effects, such as serious adverse events (SAE) or suspected unexpected serious adverse reactions (SUSAR), there is a specific timeline for reporting the event to the sponsor.

Within how many days should an SAE or SUSAR be reported to the sponsor?

- 28 days
- 14 days
- 7 days
- 1 day

IF choice c. is selected
Set score to 1

Correct.

19 of 50

You would like to measure cardiac output by a non-invasive measurement device in patients undergoing neurosurgery.
You would like to publish these data, but you doubt whether you require MERC approval.

Which of the following statements is the most appropriate in this situation?

- yes, you are required to approach the MREC for a non-WMO declaration
- no, because this is a non-invasive device you don't need a declaration
- yes, this is a study proposal that fulfills the criteria of the Medical Research Involving Human Subjects Act (WMO)

IF choice a. is selected
Set score to 1

Correct.

20 of 50

In a new study your aim to investigate a new anti-diabetic drug. Patients included in the study are randomized to an intervention arm (intake of new anti-diabetic drug for 3 months) or a control arm (intake of a placebo for 3 months).
A patient diagnosed with the novo diabetes mellitus is asked for informed consent to participate in a randomized controlled trial for a new anti-diabetic drug.

Are you allowed to include the patient in this randomized controlled study?

- no, because randomization in the placebo arm may lead to serious health consequences

- yes, because the patient will start with regular anti-diabetic therapy after the study
- no, because it is not allowed to include patients with de novo illness in a randomized trial
- yes, because the patient has an equal chance to receive the study medication or placebo

---

IF choice a. is selected
Set score to 1

Correct.

21 of 50

Which of the following statements applies for doing medical research on mentally incapacitated subjects?

- research in incapacitated subjects may only take place when a drug is studied
- research in incapacitated subjects may only take place when the study can only be executed in this category of subjects
- research in incapacitated subjects may only take place when there is no discomfort for the subject
- research in incapacitated subjects may take place under any circumstances or condition

---

IF choice b. is selected
Set score to 1

Correct.

22 of 50

What are the STOPP/START criteria?

- are used in the first step of the WHO 6 step
- are rules for the withdrawal of patients from a clinical study
- are defined in a pharmacokinetic software program for optimal dosing
- are used to screen elderly for inappropriate prescriptions

IF choice d. is selected
Set score to 1

Correct.

23 of 50

In what range the percentage of patients admitted to the hospital due to medication errors according to the HARM study?

- 1-2%
- 3-10%
- 11-15%
- 16-20%

IF choice b. is selected
Set score to 1

Correct.

24 of 50

Which one of the principles below is no part of the Code of Conduct for Academic Practice in the Netherlands?

- scrupulousness
- verifiability
- robustness
- impartiality

IF choice c. is selected
Set score to 1

Correct.

25 of 50

There are three determinants of scientific misbehavior: System, Individual and Culture.
Choose the correct determinant of scientific misbehavior for each of the statements below.

1: The scientist receive research funding of an industrial partner to perform scientific research (Individual)
2: The competition among scientists for grant money is high (System)
3: A PhD student is insufficiently supervised by the project leader of the study (Culture)

- 1: Culture; 2: System; 3: Individual
- 1: System; 2: Culture; 3: Individual
- 1: Individual; 2: System; 3: Culture

IF choice c. is selected
Set score to 1

Correct.

26 of 50

What can be considered as scientific fraud?

- exclusion of patient data without describing the reasons for exclusion in the scientific publication
- imputation of empty cells in the SPSS database but with an explanation of this method in the scientific publication
- repeating a scientific study that already has been published by others

IF choice a. is selected
Set score to 1

Correct.

27 of 50

What is meant by the term ‘reporting bias’?

- confirmation of a scientific outcome that already has been published
- the possibility of a systemic bias in published research due to over-reporting of positive results
- selective revealing or suppression of data during the publication process

IF choice c. is selected
Set score to 1

Correct.

28 of 50

You are a medical doctor visiting a scientific conference in the Netherlands. Your husband/wife, who is a nurse without prescription rights, accompanies you to the conference.
You attend the meeting, and decide to visit the booths (stands) of pharmaceutical companies at the conference exhibition.

Can you bring your husband/wife to this exhibition?

- no, only a nurse with prescription rights is allowed to visit the exhibition
- no, a nurse is never allowed to visit the pharmaceutical exhibition
- yes, a nurse is in all cases allowed to visit the pharmaceutical exhibition

IF choice a. is selected
Set score to 1

Correct.

29 of 50

Your scientific society organizes a scientific conference that is sponsored by a large pharmaceutical company.
The pharmaceutical company pays for the conference registration, the flight to the conference venue and the accommodation during the conference stay for all attendees.

Statement: According to the Code of Conduct for Pharmaceutical Advertising, the Dutch attendees are required to return 50% of these costs to the pharmaceutical company.

Is this statement true?

- yes
- no

IF choice a. is selected
Set score to 1

Correct.

30 of 50

You are in the final stage of a scientific publication and are constructing the author list.
One of the criteria of the International Committee of Medical Journal Editors (ICMJE) for authorship of a scientific publication is ‘Made substantial contributions to the conception or design of the work; or the acquisition, analysis, or interpretation of data for the work’.

The head of the department was not involved in the design and execution of the study but claims an author position.
Do you need to grant this request?

- yes, since he/she can take full responsibility for the content of the publication
- no, since his/her contribution to the study and publication is negligible
- yes, since he/she provided financial support for the scientific work

- no, since a head of the department is always excluded from the author list

---

IF choice b. is selected
Set score to 1

Correct.

31 of 50

Protocols include evidence for diagnosis and treatment. The NICE and ACOG guidelines state that women should be screened at 20 weeks gestation for Group B streptococcus (GBS) in the urine and if positive treated accordingly.
However, trials supporting these guidelines were performed more than 30 years ago. Despite these shortcomings, routine screening and treatment of GBS in pregnancy is applied in many countries, including the Netherlands. In the Netherlands, the national protocol however requires an update.

What is the best option for revision of the national protocol?

- no adjustment of the national protocol – no screening of GBS
- conduct a randomized controlled study to provide evidence for the protocol
- adjust the national protocol according to the NICE and ACOG guideline
- conduct a case- control study to provide evidence for the protocol

---

IF choice b. is selected
Set score to 1

Correct.

32 of 50

Preeclampsia is a common pregnancy-specific complication characterized by hypertension and proteinuria. When women deliver, complaints disappear and they usually return home soon after labor. Recently, it was however hypothesized that these women might be at risk for developing cardiovascular disease later in life based on epidemiologic data.

What type of study should we perform to test this hypothesis?

- a longitudinal study
- a randomized controlled trial
- a case-control study
- a systematic review

IF choice c. is selected
Set score to 1

Correct.

33 of 50

Below a number of major transformations are listed that are expected for future health care.

Choose the answer that matches the expected transformation to its main driver.

- transition: Increased use of smartphone applications – Driver: increased economic status
- transition: Decreased costs of health care in terms of %BNP (bruto national product) – Driver: larger amount of illness in the ageing population
- transition: Transition of care from in-hospital to extramural care settings – Driver: increased value attached to shared decision-making with the patient by health care professionals
- transition: Increased personalization of prevention, cure and care – Driver: increased predictive power of biomarkers paired to increased demand by citizens for shared decision-making with health care professionals

---

IF choice d. is selected
Set score to 1

Correct.

34 of 50

You are a treating physician of end-stage cancer patients who receiving palliative therapy.
As principle investigator of a Phase II trial for a new anti-cancer drug you include three of your patients in this trial.
During the informed consent procedure you tell the patients that they are able to participate in a trial for a new anti-cancer drug.

Is it possible to include these patients in the trial in light of the Medical Research Involving Human Subjects Act (WMO)?

- yes, because this drug may provide new therapeutic options for your patients
- no, because these patients have a treatment relationship with you
- yes, as the effects of the drug outweigh the side effects of the drug
- no, because you mislead the patients with respect to the study benefits

---

IF choice d. is selected
Set score to 1

Correct.

35 of 50

To what animals does the animal law not apply?

- living fetal forms in their 3rd part of development
- living insects
- living non-human invertebrates
- living non-human vertebrates

IF choice b. is selected
Set score to 1

Correct.

36 of 50

What is meant by 'No Observable Adverse Effect Levels; (NOAEL) in preclinical toxicity studies?

- a dose level at which side effects occur in an exposed population
- a dose level at which there is a significant increase in the frequency of side effects compared to controls
- a dose level at which no side effects occur in an exposed population
- a dose level at which there is no significant increase in the frequency of side effects compared to controls

---

IF choice d. is selected
Set score to 1

Correct.

37 of 50

Experimental set-ups are categorized according to the level of scientific evidence they provide.

What is the right order with respect to the level of scientific evidence of the experimental set-ups below, starting with the experimental set-up with the lowest level of evidence?

- 1) Ex vivo models; 2) Computer modeling; 3) Organ experiments; 4) Animals
- 1) Computer modeling; 2) Ex vivo models; 3) Organ experiments; 4) Animals
- 1) Organ experiments; 2) Computer modeling; 3) Animals; 4) Ex vivo models
- 1) Animals; 2) Organ experiments; 3) Ex vivo models; 4) Computer modeling

---

IF choice b. is selected
Set score to 1

Correct.

38 of 50

Studies on inherited cardiac disease in humans have a major advantage over animal models.

What is the major advantage of human studies that are difficult to show in animal models?

- the ability to establish the sequence of events in the disease (what causes what)
- the ability to test disease penetrance in a complex genetic background
- the ability to provide proof that expression of mutant protein is enough to cause disease
- the ability to test new therapeutic interventions

IF choice b. is selected
Set score to 1

Correct.

39 of 50

The Dutch Propatria study investigated whether probiotics could reduce the incidence of infectious complications in patients with severe acute pancreatitis.

What was the outcome of this study?

- the number of infectious complications was decreased in control patients when compared to the group of patients treated with probiotics
- the number of infectious complications was decreased in the group of patients treated with probiotics when compared to control patients
- mortality rates were lower in the group of patients treated with probiotics when compared to control patients
- mortality rates were higher in the group of patients treated with probiotics when compared to control patients

---

IF choice d. is selected
Set score to 1

Correct.

40 of 50

According to the publication of Emanuel, scientific research in humans is only acceptable if it meets specific criteria.

Which of the following items is not among those criteria?

- scientific validity
- favorable risk-benefit ratio
- independent review
- hospital value

IF choice d. is selected
Set score to 1

Correct.

41 of 50

What is a Data Safety and Monitoring Board (DSMB)

- a committee that approves Animal Research in the Netherlands
- a committee that monitors the study results with respect to fabrication
- a committee that approves Human Subjects Research in the Netherlands
- a committee that monitors patient safety and treatment efficacy data in a trial

---

IF choice d. is selected
Set score to 1

Correct.

42 of 50

Which is not amongst the criteria for scientific fraud?

- verification
- fabrication
- falsification
- plagiarism

IF choice a. is selected
Set score to 1

Correct.

43 of 50

Level 7 Difficulty : Undefined
Vraagtype : ja-nee-vraagteken
NedbankQuestions : Compulsory
MC's Taxonomy : 1 Knowledge
Mandatory : Default
voortgang : 01
Logarithms : 0
Eindtermen Installatietechniek : Nee
Level of Difficulty : 1 - Recall
Matrices : 0
Level 6 Difficulty : Undefined
Nivel Dificuladde : F

Imaging techniques are valuable to properly diagnose Alzheimer's disease in addition to amyloid protein measurements in cerebrospinal fluid.

What is the most appropriate technique and what will it reflect on scans of patients to determine if the diagnosis of Alzheimer's disease is correct?

- Positron Emission Tomography (PET) for atrophy measurement and magnetic resonance imaging (MRI) to measure vascular metabolism
- Positron Emission Tomography (PET) for deposition and magnetic resonance imaging (MRI) to measure grey matter lesions
- Positron Emission Tomography (PET) for atrophy measurement and magnetic resonance imaging (MRI) to measure amyloid deposition
- Positron Emission Tomography (PET) for amyloid deposition and magnetic resonance imaging (MRI) to measure atrophy

---

IF choice d. is selected
Set score to 1

Correct.

44 of 50

Level 7 Difficulty : Undefined
Vraagtype : ja-nee-vraagteken
NedbankQuestions : Compulsory
MC's Taxonomy : 1 Knowledge
Mandatory : Default
voortgang : 01
Logarithms : 0
Eindtermen Installatietechniek : Nee
Level of Difficulty : 1 - Recall
Matrices : 0

Level 6 Difficulty : Undefined
Nivel Dificuladde : F

What is the Netherlands Trial Register (NTR)?

- a database for patient case record files
- a database for ongoing clinical trials
- a database for research data
- a database with information for study volunteers

IF choice b. is selected
Set score to 1

Correct.

45 of 50

Level 7 Difficulty : Undefined
Vraagtype : ja-nee-vraagteken
NedbankQuestions : Compulsory
MC's Taxonomy : 1 Knowledge
Mandatory : Default
voortgang : 01
Logarithms : 0
Eindtermen Installatietechniek : Nee
Level of Difficulty : 1 - Recall
Matrices : 0
Level 6 Difficulty : Undefined
Nivel Dificuladde : F

What is a normative code of conduct for scientific research?

A code of conduct that:

- focuses on success stories
- focuses on do's and don'ts
- focuses on principles and values
- focuses on virtues

IF choice b. is selected
Set score to 1

Correct.

46 of 50

Level 7 Difficulty : Undefined
Vraagtype : ja-nee-vraagteken
NedbankQuestions : Compulsory
MC's Taxonomy : 1 Knowledge
Mandatory : Default
voortgang : 01
Logarithms : 0
Eindtermen Installatietechniek : Nee
Level of Difficulty : 1 - Recall
Matrices : 0
Level 6 Difficulty : Undefined
Nivel Dificuladde : F

Muscle weakness is considered a potential risk factor for falling in frail older adults.
To assess the importance of muscle weakness two study designs are considered:

1) to assess effects of leg muscle fatigue on the quality of the gait pattern in a group of healthy (non-frail) older adults;
2) to study the correlation between leg muscle strength and the quality of the gait pattern in a group frail older adults.

Which of the following propositions is correct?

- design 1 is observational, while design 2 is experimental, in both designs confounding factors are likely
- design 1 is observational, while design 2 is experimental, in both designs confounding factors are unlikely
- design 1 is experimental, while design 2 is observational, in both designs confounding factors are likely
- design 1 is experimental hence there are no confounding factors, while design 2 is observational and may suffer from confounding factors

---

IF choice d. is selected
Set score to 1

Correct.

47 of 50

Level 7 Difficulty : Undefined
Vraagtype : ja-nee-vraagteken
NedbankQuestions : Compulsory
MC's Taxonomy : 1 Knowledge
Mandatory : Default
voortgang : 01
Logarithms : 0

Eindtermen Installatietechniek : Nee
Level of Difficulty : 1 - Recall
Matrices : 0
Level 6 Difficulty : Undefined
Nivel Dificuladde : F

You design a new study that investigates the efficacy and safety of a new implantable hip for a hip fracture. You decide to only include patients with the lowest health risk profile: patients are excluded when they are older than 60 years and/or have diabetes mellitus.

Does this decision influence the validity of your study?

- yes, this decision does reduce the external validity of the study
- no, this decision does not influence the validity of the study
- yes, this decision does reduce the internal validity of the study

---

IF choice a. is selected
Set score to 1

Correct.

48 of 50

Level 7 Difficulty : Undefined
Vraagtype : ja-nee-vraagteken
NedbankQuestions : Compulsory
MC's Taxonomy : 1 Knowledge
Mandatory : Default
voortgang : 01
Logarithms : 0
Eindtermen Installatietechniek : Nee
Level of Difficulty : 1 - Recall
Matrices : 0
Level 6 Difficulty : Undefined
Nivel Dificuladde : F

As an author you are required to state your disclosures in a scientific publication.

What is a disclosure?

- a statement regarding the individual contribution of an author to the publication
- a statement regarding the commercial devices used in the study
- a statement regarding the financial support received by an author

---

IF choice c. is selected
Set score to 1

Correct.

49 of 50

Level 7 Difficulty : Undefined
Vraagtype : ja-nee-vraagteken
NedbankQuestions : Compulsory
MC's Taxonomy : 1 Knowledge
Mandatory : Default
voortgang : 01
Logarithms : 0
Eindtermen Installatietechniek : Nee
Level of Difficulty : 1 - Recall
Matrices : 0
Level 6 Difficulty : Undefined
Nivel Dificuladde : F

A clinical scientist investigates whether blood pressure values differ in patients with or without diabetes mellitus before and after walking stairs.
The investigator hypothesizes that diabetes is associated with higher blood pressure values when compared to non-diabetic subjects.
Secondary, the blood pressure difference between diabetic and non-diabetic subjects is even enlarged after walking stairs.

What is the study endpoint?

- diabetes or no diabetes
- walking stairs
- blood pressure

IF choice c. is selected
Set score to 1

Correct.

50 of 50

Level 7 Difficulty : Undefined
Vraagtype : ja-nee-vraagteken
NedbankQuestions : Compulsory
MC's Taxonomy : 1 Knowledge
Mandatory : Default
voortgang : 01
Logarithms : 0

Eindtermen Installatietechniek : Nee
Level of Difficulty : 1 - Recall
Matrices : 0
Level 6 Difficulty : Undefined
Nivel Dificuladde : F

Please read the following (part of an) popsci article:

Breakthrough: Researchers have 'found' WHY Alzheimer's disease starts

A MAJOR scientific breakthrough has caused researchers to hypothesize that Alzheimer's disease starts when the brain believes it is under threat from bacteria and viruses.

By OLIVIA LERCHE
06:00, Thu, May 26, 2016 | UPDATED: 16:50, Thu, May 26, 2016 (adjusted from the Express)

A protein called beta-amyloid linked to Alzheimer's disease could help people fight dangerous infections, according to new research. But a new study provides strong evidence that beta-amyloid is also part of the innate immune system, the body's first line of defense against bacteria, viruses and parasites. Beta-amyloid forms sticky clumps, or 'plaques', in the brain that are one of the key ways of diagnosing Alzheimer's disease.
Scientists found that human beta-amyloid (A-beta) protected against lethal infections in mice, laboratory worms and cultured human brain cells.

Dr. Robert Moir, from Massachusetts General Hospital in the US, said:

"Neurodegeneration in Alzheimer's disease has been thought to be caused by the abnormal behavior of A-beta molecules, which are known to gather into tough fibril-like structures called amyloid plaques within patients' brains. "This widely held view has guided therapeutic strategies and drug development for more than 30 years, but our findings suggest that this view is wrong and we have to change the way we treat our patients."

... (article continues)….

Is the translation of dr. Robert Moir of the scientific findings to the layman interpretation correct?

- yes, based on the findings in animal studies he states that the way therapeutic strategies and drugs were developed for clinical purposes need to change. However, it is necessary to add one more step between animal models and cultured human brain cells before you can make such a statement
- no, the findings from animal research and cultured human brain cells do show that other mechanisms play a role, and it is therefore validated to suggest that the view on drugs and treatment need to change

---

IF choice a. is selected
Set score to 1

Correct.

Feedback
0% to 100%

%SESSION.SCORE% of %SESSION.MAX% questions are correctly answered.