EthxWeb Search Results

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Document 1
Saso, Srdjan; Del Prior, Giuseppe; Smith, J Richard
**Uterine transplantation: future directions.**
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Document 2
Yen, S-Y; Lee, S-M; Tu, C-F; Tang, S-M; Tapsoba, J D D
**A survey of the attitudes of scientists toward xenotransplantation in Taiwan.**
Transplantation proceedings 2010 Jul-Aug; 42(6): 2117-21
**Abstract:** This study examined the attitudes of scientists in Taiwan's leading animal research institution toward xenotransplantation. The aim was primarily to evaluate the opinions of professionals in the biomedical field on key issues including ethical, moral, legal, and regulatory issues raised by the biotechnology. A secondary objective was to identify potential factors that influenced opinions. A questionnaire-based survey was used to evaluate opinions. A test for internal consistency of the questionnaires to sample of 91 scientists was performed as well as a principal component analysis. We evaluated associations between variables using the nonparametric Kruskal-Wallis test. Among the subjects 85.2% thought that xenotransplantation can be more beneficial than harmful to human society and 94.3% believed that it is important to develop xenotransplantation. Also, 97.8% of participants believed that legislative guidelines should be adopted to regulate research in biotechnology. Gender was an influencing factor, whereas, variables such as religion, marital status, and age did not have obvious effects. Further studies on the general public are needed to detect other factors and to examine the attitude of nonprofessionals toward xenotransplantation.
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Document 3
Jorqui-Azofra, M; Romeo-Casabona, C M
**Some ethical aspects of xenotransplantation in light of the proposed European directive on the protection of animals used for scientific purposes.**
**Abstract:** Unlike what has happened in other times, society in general and especially the scientific community has become aware that animals share our sensitivity to pain and the capacity to suffer. In this regard, it is generally accepted that animals must be protected from all types of abuse. In fact, it is unavoidable today that animals used in scientific experiments enjoy the maximum degree of protection and well-being. This view is based on an ecocentric notion of living matter as opposed to the traditional anthropocentric approach because it has become evident that ethics should not be limited to those belonging to the same species. Likewise, there is a broad consensus-with the exception of members of certain animal protection groups-regarding the need to experiment with animals, when no alternative methods (AM) are available, given that the current state of scientific knowledge still does not allow for this type of experimentation to be entirely abolished. Nevertheless, we must keep in mind that not every scientific procedure in which animals are used is legitimate. On one side of the scale that symbolizes the
legislation in this field, we find the weight of science and safety, and on the other side, the weight of ethics. In this article we have reviewed some of the main ethical criteria that serve as a basis to balance the scale, in other words, to guide and legalize animal experimentation in the field of xenotransplantation (XT). To that end, we take into account the current revisions made to the European Directive regarding the welfare of animals used in scientific procedures (86/609/EEC), in order to reflect, in turn, on the following issue: where is European institutional ethics headed on this issue?

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Document 4

Ríos, A; Martínez-Alarcón, L; Sánchez, J; Jarvis, N; Ramis, G; López, A; Parrilla, P; Ramírez, P

The attitude of Scottish citizens to xenotransplantation in the South East of Spain: an emerging population subgroup.

Transplantation proceedings 2010 Jul-Aug; 42(6): 2126-9

Abstract: It is important to discover whether xenotransplantation would be accepted in society. In populations where there are preclinical projects there is the possibility of xenotransplantation to humans. In the South East of Spain in recent years there has been a significant social change, due to the migratory influx, which is making it necessary to reconsider the level of acceptance of xenotransplantation. The objective of this study was to analyze the attitudes of and to determine relevant variables among the population from southeastern Spain who were born in Scotland.

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Document 5

Martínez-Alarcón, L; Ríos, A; Ramis, G; Quereda, J J; Herrero, J M; Muñoz, A; Parrilla, P; Ramírez, P

Are veterinary students in favor of xenotransplantation? An opinion study in a Spanish university with a xenotransplantation program.

Transplantation proceedings 2010 Jul-Aug; 42(6): 2130-3

Abstract: The shortage of available transplant organs has made it necessary to search for new alternatives, one of which is xenotransplantation. However, the use of animal organs and the personnel involved in its implementation could face opposition. Our objective was to analyze the attitudes of veterinary degree students in a Spanish university toward xenotransplantation and to determine the factors that affect its acceptance.

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Document 6

Brännström, Mats; Wranning, Caiza A; Altchek, Albert

Experimental uterus transplantation.

Human reproduction update 2010 May-Jun; 16(3): 329-45

Abstract: BACKGROUND: Uterus transplantation (UTx) is developed in animal models as a future method to treat uterine factor infertility. METHODS: All published studies in the area of UTx research were identified. Aspects relating to surgery, cold-ischemia/reperfusion, rejection, immunosuppression, pregnancy, ethics and institutional requirements were examined. RESULTS: Uterus retrieval surgery has been solved in animals, including primates. Studies on cold-ischemia/reperfusion indicate an ischemic tolerance of >24 h. The transplantation procedure, with vascular anastomosis, has not been fully developed in animal models, indicated by frequent thrombosis formation. Pregnancies have only been reported in syngenic/auto-UTx animal models. Several ethical issues in relation to UTx, and requirements for a team that would be suitable to undertake human UTx, exist. CONCLUSION: Much research on UTx has been performed in appropriate animal models. Several aspects of the procedure have been optimized but some remain to be solved. It is predicted that the research will soon reach a stage that could merit introduction of human UTx as an experimental procedure.

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Taylor, K.
**Xenotransplantation [letter]**

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**Document 8**
Watts, Geoff
**Bit of an animal.**
British Medical Journal 2010 January 16; 340(7738): 128-129

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**Document 9**
Sparrow, Robert
**Xenotransplantation, consent and international justice.**
Developing World Bioethics 2009 December; 9(3): 119-127

*Abstract:* The risk posed to the community by possible xenozoonosis after xenotransplantation suggests that some form of 'community consent' is required before whole organ animal-to-human xenotransplantation should take place. I argue that this requirement places greater obstacles in the path of ethical xenotransplantation than has previously been recognised. The relevant community is global and there are no existing institutions with democratic credentials sufficient to establish this consent. The distribution of the risks and benefits from xenotransplantation also means that consent is unlikely to be forthcoming. Proceeding on the basis of hypothetical consent to a package of global health measures that includes xenotransplantation, as Rothblatt has recently advocated, is more problematic than she acknowledges. Given that it may place the lives of citizens of poor nations at risk to benefit the citizens of wealthy nations, xenotransplantation raises significant questions of international justice.

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Holden, Constance
**Clean pigs offer alternative to stem cell transplants. [news]**
Science 2009 November 20; 326(5956): 1049

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**Document 11**
Fovargue, Sara; Ost, Suzanne
**A plea for precaution with public health: the xenotransplantation example**
Clinical Ethics 2009 September; 4(3): 119-124
**Abstract:** In this paper we argue that while individual private interests such as autonomy and the need for a medical procedure or treatment are important in the provision and delivery of health care and the utilization of biotechnologies, these concepts need to be balanced with other interests such that in certain situations they do not take priority. We use as an example a particular developing biotechnology, xenotransplantation, to suggest that interest in the health of the public is such that this biotechnology should not be permitted to move to the clinical trial stage because of the particular risk of harm it poses to the potential xeno-recipient, their close contacts and the wider population. This is despite the interest of those in need of a transplant in allowing such clinical trials to proceed. We derive support for our position from John Stuart Mill's harm principle.

http://ce.rsmjournals.com/content/vol4/issue3/ (link may be outdated)

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Coghlan, Andy
**Hybrid hearts for transplant [news]**
New Scientist 2009 June 6-12; 202(2711): 8-9

Document 13
**Affairs of the pig-human heart [editorial]**
New Scientist 2009 June 6-12; 202(2711): 5

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Pierson, Richard N., III
**Current status of xenotransplantation.**
JAMA: The Journal of the American Medical Association 2009 March 4; 301(9): 967-969

Document 15
**First WHO global consultation on regulatory requirements for xenotransplantation clinical trials: Changsha, China, 19-21 November 2008. The Changsha communique.**
Xenotransplantation 2009 March; 16(2): 61-63

Document 16
'Arid, Fahd ibn Salih ibn Muhammad
**Ahkam al-bada'il al-hayawaniyah wa al-sina'iyyah fi jism al-insan = Rulings concerning animal and artificial organs in human body**
Rémy, Catherine

The animal issue in xenotransplantation: controversies in France and the United States.
History and philosophy of the life sciences 2009; 31(3-4): 405-28

Abstract: In recent years scientists have created genetically modified pigs for the purpose of xenotransplantations. These are transplants of animal organs into human patients. But xenotransplantation has a long history. Since the early twentieth century, many surgeons tried to insert animal organs into human and non-human bodies. This paper examines the controversies that these innovations have caused in the United States and France, including the notion of the objectification of animals. Three phases are described. The historical review shows that far from the choice of pigs being "natural" it turns out to be recent and to follow controversies surrounding the possible use of primates. During the last phase, the scientists have internalized the "animal issue" in their practice: the official donor is now the pig, and the animals are treated respectfully during all the lab manipulations. Since pigs are different from humans they can be objectified and thus absorbed. This objective distance is, however, threatened by new discourses on animal rights, by genetic manipulations that "humanise" pigs, and by scientific practice itself that recognizes a moral proximity between pigs and men.

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Save by a pig's heart? [news]
New Scientist 2008 November 29 - December 5; 200(2684): 8-9

Pigs might fly: we were too quick to write animals off as a source of organs [editorial]
New Scientist 2008 November 29 - December 5; 200(2684): 5

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Changes to abortion law fail as fertility bill moves to Lords [news]
BMJ: British Medical Journal 2008 November 1; 337(7677): 1014-1015

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Defining an appropriate ethical, social and regulatory framework for clinical xenotransplantation.
Current Opinion in Organ Transplantation 2008 April; 13(2): 159-164

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British citizens in a regional community of southeastern Spain with a pre-clinical organ xenotransplantation program. A study of attitude toward xenotransplantation.
Xenotransplantation 2007 May; 14(3): 255-264

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Arz de Falco, Andrea

Xenotransplantation: an ethical evaluation giving special consideration to animal ethical aspects.
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Sharp, Lesley A.

BODIES, COMMODITIES, AND BIOTECHNOLOGIES: DEATH, MOURNING, AND SCIENTIFIC DESIRE IN THE REALM OF HUMAN ORGAN TRANSFER

Holland, Jocelyn A.

The "catch-22" of xenotransplantation: compelling compliance with long-term surveillance
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Murray, Mary
Xenotransplantation and the post-human future
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Call number: R725.59.A884.2007

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Hughes, Jonathan
The ethics of xenotransplantation
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Xenotransplantation – ethics and regulation
Xenotransplantation 2006 November; 13(6): 505-509
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Xenotransplantation: the solution to the shortage of human organs for transplantation?
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Xenotransplantation: a bioethical evaluation
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**Xenotransplantation: an ethical dilemma**  
Current Opinion in Cardiology 2006 March; 21(2): 138-141

Rasool, G. Hussein  
**Animal to human transplantation -- future potential, present risks**  

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**Abstract:** There are many potential benefits that xenotransplantation (cross-species transplantation) might afford us, but there are also many weighty biological hurdles which must be surmounted if this procedure is ever to become a clinical reality. Many of these biological concerns are being addressed by specific and novel therapies; however, we must still determine the point at which xenotransplantation could be considered safe enough for clinical implementation. Many members of the scientific community believe that we should strive to make...
xenotransplantation products as safe and effective as possible, whereas others argue that we should not need to optimize the safety and efficaciousness of xenotransplantation products for them to be deemed acceptable for human use. In this paper I take the latter position, I argue that "the scientific community should move from the paradigm of...trying to indicate to society optimal solutions to that of...trying to help society in finding 'satisficing' solutions" which, although not necessarily optimal, are, nevertheless, good enough (Giampietro, 2002, p. 466).

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Knell, Toshi
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Rothblatt, Martine

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**Law and ethics of xenotransplantation: bibliography and abstracts of key articles**


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**Persson, Marie Omnell**

**UTILIZATION AND ALLOCATION OF ORGANS FOR TRANSPLANTATION: MEDICAL AND ETHICAL ASPECTS**

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