

[Thesis: The Hwang Woo-Suk Scandal and the Development of Bioethics in South Korea](#) ^[1]

By: Clay, Anne Keywords: [Woo-Suk Hwang](#) ^[2] [Ethics in Science](#) ^[3]

Editor's note:

Anne Clay defended her thesis titled "The Hwang Woo-Suk Scandal and the Development of Bioethics in South Korea" in 2012 in front of committee members James Hurlbut, Jane Maienschein, and Gary Marchant, earning her a Bachelor's degree from Barrett, the Honors College. <https://repository.asu.edu/items/15764> ^[4]

Abstract:

In 2004, the South Korean geneticist Woo-Suk Hwang published what was widely regarded as the most important research finding in biotechnology that year. In the prestigious American journal *Science*, he claimed that he had succeeded in [cloning](#) ^[5] a human [blastocyst](#) ^[6], which is an embryo in its early [developmental stages](#) ^[7] (Hwang et al. 2004). A year later, in a second *Science* article, he made the earth-shattering announcement that he had derived eleven embryonic stem cell lines using his [cloning](#) ^[5] technique (Hwang et al. 2005). The international scientific community was stunned. American scientists publicly fretted that President George W. Bush's executive order in 2001 which limited federal funding for stem-cell research in the United States had put American bioscience behind the Koreans' (Paarlberg 2005).

Those breakthroughs offered potential solutions to immune system rejection of transplanted organs and possible cures for diseases such as rheumatoid arthritis, Parkinson's, Down's syndrome, and paralysis (Svenaeus 2007). However, within a year, Hwang was exposed as a fraud who had faked his results and pressured his female colleagues to donate eggs without receiving [informed consent](#) ^[8]. Despite protests against his methods from Korean religious and nongovernmental organizations, Hwang had used his prestige to ignore his ethical obligations. Moreover, the Korean government was slow to investigate Hwang and to subject his work to appropriate [regulation](#) ^[9].

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Subject

[Ethics](#) ^[10] [Science, Moral](#) ^[11] [Informed consent \(Medical law\)](#) ^[12] [Consent, Informed](#) ^[13] [Scientific Misconduct](#) ^[14] [Fraud, Scientific](#) ^[15] [Scientific Dishonesty](#) ^[16]

Topic

[Ethics](#) ^[17] [People](#) ^[18]

Publisher

Arizona State University. School of Life Sciences. Center for Biology and Society. Embryo Project Encyclopedia.

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Last Modified

Saturday, November 28, 2020 - 01:04

DC Date Accessioned

Saturday, November 28, 2020 - 00:59

DC Date Available

Saturday, November 28, 2020 - 00:59

DC Date Created

2020-11-26

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- [2] <https://embryo.asu.edu/keywords/woo-suk-hwang>
- [3] <https://embryo.asu.edu/keywords/ethics-science>
- [4] <https://repository.asu.edu/items/15764>
- [5] <https://embryo.asu.edu/search?text=cloning>
- [6] <https://embryo.asu.edu/search?text=blastocyst>
- [7] <https://embryo.asu.edu/search?text=developmental%20stages>
- [8] <https://embryo.asu.edu/search?text=informed%20consent>
- [9] <https://embryo.asu.edu/search?text=regulation>
- [10] <https://embryo.asu.edu/library-congress-subject-headings/ethics>
- [11] <https://embryo.asu.edu/library-congress-subject-headings/science-moral>
- [12] <https://embryo.asu.edu/library-congress-subject-headings/informed-consent-medical-law>
- [13] <https://embryo.asu.edu/library-congress-subject-headings/consent-informed>
- [14] <https://embryo.asu.edu/medical-subject-headings/scientific-misconduct>
- [15] <https://embryo.asu.edu/medical-subject-headings/fraud-scientific>
- [16] <https://embryo.asu.edu/medical-subject-headings/scientific-dishonesty>
- [17] <https://embryo.asu.edu/topics/ethics>
- [18] <https://embryo.asu.edu/topics/people>
- [19] <https://embryo.asu.edu/formats/essays-and-theses>