

Author Full Name : Amanda Graves**Received Date :** 02/20/2025 09:35 AM**Comments Received :**

The definition of "gender" has been scientifically proven to be non-binary in nature, including humans. Per this letter penned to the president:

"Scientific consensus defines sex in humans as a biological construct that relies on a combination of chromosomes, hormonal balances, and the resulting expression of gonads, external genitalia and secondary sex characteristics. There is a variation in all these biological attributes that make up sex. Accordingly, sex (and gendered expression) is not a binary trait. While some aspects of sex are bimodal, variation along the continuum of male to female is well documented in humans through hundreds of scientific articles. Such variation is observed at both the genetic level and at the individual level (including hormone levels, secondary sexual characteristics, as well as genital morphology). Beyond the incorrect claim that science backs up a simple binary definition of sex, the lived experience of people clearly demonstrates that the genetic composition at conception does not define one's identity. Rather, sex and gender result from the interplay of genetics and environment. Such diversity is a hallmark of biological species, including humans."

Furthermore, scientifically all embryos start off as "female" (per your binary definition) and therefore if you decide to label gender "at conception," then ALL Americans are thus female. Science proves that the president's "definition of sex and gender" can and does change from conception all the way to death.

Therefore, it is crucial that we leave room for all genders to live and represent themselves and others, especially on governmental forms of identification.

Article of letter penned to president: <https://www.evolutionsociety.org/news/display/2025/2/7/letter-to-the-us-president-and-congress-on-the-scientific-understanding-of-sex-and-gender/>