

## Annotated Bibliography

### Primary

Plomin, Robert. "In the Nature–Nurture War, Nature Wins." *Scientific American Blog Network*, Scientific American, 14 Dec. 2018,  
<https://blogs.scientificamerican.com/observations/in-the-nature-nurture-war-nature-wins/>

This online article described that genes can be stronger than the environment when it comes to raising a child. It helped us understand that in the end, someone would be the same person even if they were raised in a different family and environment. It also told us that even after we go through a few environmental changes, we will always bounce back to our genetic selves.

### Secondary

AP News, AP News. "Jim Twins' Return to University for More Tests." *AP NEWS*, Associated Press, 5 Nov. 1987,  
<https://apnews.com/9b5938cd72025a3a04a8a207da1f931a>.

This article gave us information about the Jim Twins or Jim Springer and Jim Lewis. It described some similarities and differences that they had with each other before they met for the first time. This helps us to understand how strong genes are.

"NASA'S Twins Study Results Published In Science Journal". NASA, 2022,

<https://www.nasa.gov/feature/nasa-s-twins-study-results-published-in-science>.

Accessed 12 Jan 2022.

This website gives us information about the astronaut twins experiment and how they changed. This is important to know because it will support our project more if we know the details of the experiment.

"Are You What Your Mother Ate?."Youtube, uploaded by Chris Livesey, Nov 6, 2017,

<https://www.youtube.com/watch?v=GoMVNGEbNag>.

This video gives us an example of an experiment that scientists performed on mice to see how different food can affect their pups' coat color. This helps our project because it proves that Nurture can affect your behavior.

Boskey, Elizabeth, and Elizabeth Boskey. "Genetic Testing Defined." *America Debates Genetic DNA Testing*, Rosen Central, New York, NY, 2008, pp. 6–9.

This book gives us some more details about genes, alleles, and the difference between dominant and recessive genes. This helps us to understand more about DNA and more on the Nature side of Nature vs Nurture.

"NPR Cookie Consent And Choices". *Npr.Org*, 2021, <https://www.npr.org/2007/10/25/15629096/identical-strangers-explore-nature-vs-nurture>. Accessed 30 Oct 2021.

This online article gives us an example of a set of identical twins named Paula Bernstein and Elyse Schein that were raised in different families but eventually discovered each other. The adoptive parents knew that they were part of an experiment but they did not know that it was a Nature vs Nurture experiment or that they had a twin sister.

Fitzsimons, Billi. "The Extraordinary True Story Of Estranged Identical Twins Who Lived The Same Life.". *Mamamia*, 2019, <https://www.mamamia.com.au/the-jim-twins/>. Accessed 1 Nov 2021.

This article gives us an example of a set of identical twins who were reared apart at birth, and were only reunited at the age of 14. They had many striking similarities that must have been because of their almost identical genes. This helps us to better understand the nature factor.

FLAM, FAYE. "Separated Twins Shed Light On Identity Issues". *Chron*, 2007,

<https://www.chron.com/news/nation-world/article/Separated-twins-shed-light-on-identity-issues-1808191.php>. Accessed 5 Nov 2021.

This article has some more information on a twin study done on Paula Bernstein and Elyse Schein. This helps us understand a little bit more about what differences and similarities they found out they had after they met for the first time.

"Identical Twins Separated at Birth." Youtube, uploaded by Strombo, Oct 19, 2007,

<https://www.youtube.com/watch?v=1gwnzW4jOMI>.

The video is a news clip where Paula Bernstein and Elyse Schein were interviewed about their twin study that was secretly done on them. This helps our project because it can give us quotes on how they personally felt throughout the experience, and a little bit of their backstory.

Murphy, Glenn. "Mother's Diet Changes Pups' Colour." *Nature News*, Nature Publishing Group, 4 Aug. 2003, <https://www.nature.com/articles/news030728-12>.

This article gave us more information about an experiment where scientists put pregnant mice on a diet, and their pups looked different due to DNA methylation, which can switch genes on or off during development. This helps our project because it got into the details about what they did for the experiment, and the reason for the outcome. This is an example where Nurture and Nature go hand-in-hand.

"Nurture Has Greater Effect Than Nature, Says Study". *Phys.Org*, 2021, <https://phys.org/news/2009-05-nurture-greater-effect-nature.html>. Accessed 27 Oct 2021.

This online article gives us examples where the nurture factor of nature vs nurture is stronger than the nature factor. It helps us to understand how the nurture factor can affect someone, like how it can affect weight, or even how humans grow!

Ouellette, Jennifer. *Me, Myself, and Why: Searching for the Science of Self*. Penguin Books, 2014.

This book has information on genes and how they work. It described dominant and recessive genes and different parts or sections of genes. This helps us understand more about Nature and what genes do especially when it comes to identical twins.

Ridley, Matt. *Nature via Nurture: Genes, Experience and What Makes Us Human*. Fourth Estate, 2003.

This book gives me both sides of the Nature vs Nurture debate. It shows that Galton did mostly studies on Nature to find the result that in his opinion Nature and Nurture go hand-in-hand to make up a human's behavior. This helps our project because it has evidence on both sides of the debate, and what Francis Galton believes.

Saleeby, Caleb Williams. *Progress of Eugenics*. Funk and Wagnalls Company, 1914.

This book has some information about some of the secrets behind how genes get passed down from the parents and some more background information about Francis Galton, the man who made Nature vs Nurture. This helps us to understand more on how genes are passed down from generations.

University Of Chicago Medical Center. "Social Behavior Among Monkeys May Be More Nature Than Nurture." ScienceDaily. ScienceDaily, 4 December 2003.  
<[www.sciencedaily.com/releases/2003/12/031204075330.htm](http://www.sciencedaily.com/releases/2003/12/031204075330.htm)>.

This article is about monkeys and how they separated the newborns from their birth mothers. They studied them and saw that if the birth mother would fight aggressively, so would the offspring even if the adoptive mother would be peaceful and friendly. This helps us to understand more about how strong genes, DNA, and nature are.

Watters, Ethan. "DNA Is Not Destiny: The New Science of Epigenetics." *Discover Magazine*, Discover Magazine, 17 Oct. 2019, <https://www.discovermagazine.com/the-sciences/dna-is-not-destiny-the-new-science-of-epigenetics>.

This article gave us an example of an experiment where two scientists would test how the environment can change the genes. They put pregnant mice on a diet, and they produced mice with different genes, due to the environment change. This is important because it shows us that environment/nurture can affect genes/nature. It also shows us that nurture and nature work together to make up an animal/human's genes.

#### Images for Illustration

"10 Different Types Of Twins And Their Characteristics - Incubar". *Incubar*, 2020, <http://incubar.net/10-different-types-of-twins-and-their-characteristics/>. Accessed 15 Dec 2021.

Fraternal Twins Same Gender, *Incubar*, 2020

*Argusleader.Com*, 2021, <https://www.argusleader.com/story/news/business-journal/2016/04/29/avera-research-why-fraternal-twins-run-families/83649180/>. Accessed 15 Dec 2021.

Fraternal Twins Opposite Gender



"Fraternal Twins". *Genome.Gov*, 2021,

<https://www.genome.gov/genetics-glossary/Fraternal-Twins>. Accessed 14 Dec 2021.

Identical and Fraternal Twins Eggs

Conversation, Nick. "NASA Sent A Twin To Study Nature Vs Nurture And Results Are

Visible". *Business-Standard.Com*, 2021,

[https://www.business-standard.com/article/current-affairs/nasa-sent-a-twin-to-study-nature-vs-nurture-and-results-are-visible-117020800206\\_1.html](https://www.business-standard.com/article/current-affairs/nasa-sent-a-twin-to-study-nature-vs-nurture-and-results-are-visible-117020800206_1.html). Accessed 2 Dec 2021.

Scott and Mark Kelly Separated at Launch

Dovey, Dana. "Nature vs. Nurture: Which One Determines Who You Are?" *Medical Daily*,

22 May 2015,

<https://www.medicaldaily.com/nature-vs-nurture-debate-50-year-twin-study-prove-s-it-takes-two-determine-human-334686>.

Identical Twin Girls

"Genes, Environment, And Behavior (Article) | Khan Academy". *Khan Academy*, 2021,

<https://www.khanacademy.org/test-prep/mcat/behavior/behavior-and-genetics/a/genes-environment-and-behavior>. Accessed 2 Dec 2021.

How Genes Work

Limited, Alamy. "Nature And Nurture In Balance - Pictured As Balanced Balls On Scale That Symbolize Harmony And Equity Between Nature And Nurture That Is Good And Bene Stock Photo - Alamy". Alamy.Com, 2021,  
<https://www.alamy.com/nature-and-nurture-in-balance-pictured-as-balanced-balls-on-scale-that-symbolize-harmony-and-equity-between-nature-and-nurture-that-is-good-and-bene-image334270853.html>. Accessed 2 Dec 2021.

Nature and nurture in balance

"Francis Galton". Darwin Correspondence Project, 2016,  
<https://www.darwinproject.ac.uk/francis-galton>. Accessed 2 Dec 2021.

Picture of Francis Galton

"Christopher E. Mason". *Cornell Research*, 2018,  
<https://research.cornell.edu/researchers/christopher-e-mason>. Accessed 2 Dec 2021.

Christopher E. Mason

"Nature Vs Nurture And The Role Of Neuroscience In Child Development – London School Of Childcare Studies". Childcarestudies.Co.Uk, 2021,  
<https://childcarestudies.co.uk/2020/09/13/nature-vs-nurture-and-the-role-of-neuroscience-in-child-development/>. Accessed 15 Dec 2021.

Nature (genes) vs Nurture (environment)

Team. "Nature Vs Nurture: Building A High-Performing Sales Team". *Sparxiq*, 2021,  
<https://sparxiq.com/nature-vs-nurture-building-a-high-performing-sales-team/>.  
Accessed 15 Dec 2021.

Genes or Environment

"Nature Vs Nurture Twin Studies STEPHANIE PRECIADO Identical". *Slidetodoc.Com*,  
2021,  
<https://slidetodoc.com/nature-vs-nurture-twin-studies-stephanie-preciado-identical/>. Accessed 16 Dec 2021.

Twins Separated at Birth Information

Mendel, Prader. "Today: Connecting Meiosis To Genetics - Ppt Download".  
*Slideplayer.Com*, 2021, <https://slideplayer.com/slide/15376554/>. Accessed 16  
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Mother's Diet Changes Pups' Colour

Gamble, Leighanna. "Genetics, Environment, And Behavior". *Slideserve*, 2012,  
<https://www.slideserve.com/leighanna/genetics-environment-and-behavior>.  
Accessed 16 Dec 2021.

Identical Twins Reared Apart

"Genetics & Nature Vs. Nurture". *Slideshare.Net*, 2021,  
<https://www.slideshare.net/srgeorgi/genetics-nature-vs-nurture>. Accessed 16  
Dec 2021.

Twin Studies

"Researchers: Cutting Calories May Help Monkeys Live Longer".

*Philadelphia.Cbslocal.Com*, 2017,

<https://philadelphia.cbslocal.com/2017/01/24/researchers-cutting-calories-may-help-monkeys-live-longer/>. Accessed 20 Dec 2021.

Mother and Infant Rhesus Monkeys

"Nature Vs Nurture Comparison - Psychology". *Brainmemind*, 2020,

<https://brainmemind.com/psychology/nature-vs-nurture-comparison/>. Accessed 20 Dec 2021.

Personality: Genes or Environment

"Scott Kelly". Scott Kelly, 2022, <http://www.scottkelly.com/>. Accessed 17 Jan 2022.

Scott Kelly in Space Suit