Newsletter #1

NEWSLETTER

MICHIGAN STATE UNIVERSITY TWIN REGISTRY (MSUTR)

Fun Twin Facts:

- 1. Nigeria holds the world record in multiple births. (There are 1 in 22 multiple births in Nigeria as opposed to 1 in 150 in Japan and 1 in 85 in the U.S.).
- 2. Some famous twins include: Elvis, Alanis Morisette, John Lovitz, Ed Sullivan.
- 3. Some famous parents of twins/ triplets include: Robert Deniro, George Bush, William Shakespeare, Muhammad Ali, John Engler, Michael J. Fox, Mel Gibson, Ray Romano, Denzel Washington.
- 4. There are at least 125 million multiples worldwide.
- 5. Up to 22% of twins are left handed (the nontwin population is just under 10%).

Welcome to MSU Twin Studies!

will send you a newsletter will feature these findings. periodically to provide additional information about studies and share interesting stories related to twins. This first newsletter includes information about the MSU Twin Registry (MSUTR), our staff, the

Greetings! You received ways in which twins can be this newsletter because you helpful for scientific research, are a twin pair who is and some fun twin facts. eligible to participate in one When we begin to analyze of our twin studies. If you data from our MSU Twin choose to participate, we Registry, future newsletters

> If there is anything you would like to see in this newsletter, please let us know by e-mailing us at either Klumplab@msu.edu or Burtlab@yahoo.com. Otherwise, we hope to meet

you soon!

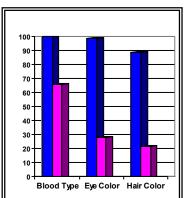


Figure 1. This chart shows the similarities in MZ (Blue) and DZ (Pink) twin siblings' physical characteristics. For example, MZ twins always share the same blood type while DZ twins only share blood type 65% of the time.

Why use Twin Studies?

both medicine psychology. findings have psychological disorders.

this?

Monozygotic (MZ) cannot tell them apart. In to a given trait. contrast, dizygotic (DZ) or share, on average, 50% of human like regular siblings, except information study make use of this difference need

Twins are an invaluable in the percentage of genes resource for the fields of shared to determine how and genetic (and Twin study environmental) a trait is (see been Figure 1). For example, if influential in detecting and DZ twins are as similar as treating various diseases and MZ twins on a particular trait, then we infer that How are they able to do genetic factors are unlikely to be very influential. In or this way, twin studies allow identical twins are the same us to generally determine sex and share 100% of their the amount of genetic and genes. In fact, DNA tests environmental contributions

Although this information fraternal twins can be the is critical for establishing same- or opposite-sex and the general role of genes in behavior, their genes (so they are just comparisons cannot provide about born at the same time). location of the relevant researchers genes. To do this, scientists examine

participants' DNA (collected through non-invasive saliva sampling). In this way, we can look more closely at the relationship between psychological traits and specific genes.

This information can then be used to develop better ways to prevent and treat disorders and maladaptive behaviors. Indeed, some of the most treatments effective medical disorders (e.g., early onset breast cancer) have been developed partly as a result of twin study research.

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More Fun Iwin Facts...

- 6. Identical twins exhibit almost identical brain wave patterns.
- 7. There is a restaurant in NYC called "Twins." It was started by twin sisters and is staffed by 37 identical twins who work the same shifts.
- 8. The oldest twins on record were from Affington, VA. One died at 108, while his co-twin died at age 113.

Our Current Twin Studies

We are currently recruiting for two MSUTR twin studies that we hope you are interested in participating in.

Adolescent Twin Study: This study aims relationships examine between hormones, mood, eating attitudes and behaviors, family relationships, personality characteristics in same-sex adolescent male and female twins aged 10-15 years old.

If you are interested in the adolescent If you are interested in the adult twin study, or know someone who is, study, or know someone who is, please please contact us at:

Burtlab@yahoo.com

or call: (517) 355-6878

Adult Twin Study: In addition, we are also conducting a study that examines adult opposite-sex and same-sex twins. This study examines the degree to which genetic and environmental factors influence personality characteristics and behavioral adjustment.

Twins for this study must be at least 18 vears old.

contact us at:

Klumplab@msu.edu

or call: (517) 432-3665

Dr. Klump and graduate and undergraduate research assistants

Dr. Burt and graduate and undergraduate research assistants

Meet Our Staff

It takes a lot of hard work and commitment to run a research **MSUTR** study. and the currently has several individuals on staff to make sure everything runs smoothly. This staff includes our directors Drs. S. Alexandra Burt and Kelly Klump. Drs. Burt and Klump are professors in the Department of Psychology at MSU.

The MSUTR also includes undergraduate and graduate students who work directly with and families who twins participate in our studies. The graduate students frequently manage the studies and include Kristen Culbert, Janeen DeMarte, Jennifer Slane, and Alexia Spanos.

The undergraduate research assistants are students at MSU who enjoy working with twins and families alike. These

assistants include Robert Buhs, Ashley Curtis, Kelly Curtis, Katie Douglas, Sahar Eftekhar, Bryan Garlington, Sapna Gill, Stacy Glabach, Bethany Grix, Mikhila Humbad, Joanne Johnson, Shawn Katterman, Keith Marlow, Meghan McKenzie, Amy Mikolajewski, Matt Murray, Bevin Naftel, Hannah Nuckols, Alicia Palmer, Jenna Reddell Jessica Suisman, Kenya Talton, and Kim Walter.

In future newsletters, we plan to describe findings from our twin studies. Stay tuned to hear how your participation in our twin studies contributes to science!