



University of Groningen

Two sides to every story

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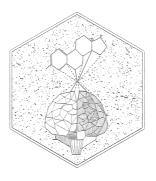
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PROPOSITIONS

There are more than two sides to lateralization and gender

1. The effect of sex hormones differs between boys and girls, testosterone and estradiol, the left and right hemisphere, and the prenatal and pubertal period.

It's all about finding crossroads when there are more than two sides:

- 2. Cross-talk between experimental animal studies and human studies is needed to understand the influence of sex hormones on brain lateralization.
- 3. Cross-sex hormone treatment in persons diagnosed with gender dysphoria offers a unique way to investigate the effect of hormone manipulation in humans.

If the human brain were so simple that we could understand it, we would be so simple that we couldn't –Emerson M. Pugh

- 4. There should be more attention for the role of estradiol in the sexual differentiation of brain and behavior of humans.
- 5. Brain lateralization and gender development are very different traits of sexual differentiation, but there are parallels in the effects of sex hormones on both.
- 6. Cross-sex hormone treatment is in the first place meant to change the physical appearance, but its effects on the brain should be taken into account too.

"Think left and think right and think low and think high. Oh, the things you can think up if only you try" –Dr. Seuss

- 7. Science would take enormous steps if all scientists would share their data.
- 8. Creativity is connecting and extrapolating ideas. This creativity is needed for science, but could also be used to communicate science in a more appealing way.
- 9. The prescription that PhD students should wear muted colours during their own PhD ceremony is outdated.