

# Robert Thibault

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## Journal articles

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**Thibault, R. T.**, Amaral, O. B., Argolo, F., Bandrowski A. E., Davidson, A. R., Drude, N. I. (2023).

Open Science 2.0: Towards a truly collaborative research ecosystem. *PLOS Biology*.

[\[paper\]](#) [\[postprint\]](#)

**Thibault, R. T.**, Bailey-Rodriguez, D., Bartlett, J. E., Blazey, P., Green, R. J., Pownall, M., & Munafò, M.

R. (2023). A Delphi study to strengthen research methods training in undergraduate psychology programmes. *Advances in Methods and Practices in Psychological Science*.

[\[paper\]](#) [\[preprint\]](#) [\[preregistration\]](#) [\[data\]](#) [\[materials\]](#) [\[analysis-code\]](#) [\[reproducible-container\]](#)

**Thibault, R. T.**, Kovacs, M., Hardwicke, T. E., Sarafoglou, A., Ioannidis, J. P., & Munafò, M. R. (2023)

Reducing bias in secondary data analysis via an Explore and Confirm Analysis Workflow (ECAW): A proposal and survey of observational researchers. *Royal Society Open Science*.

[\[paper\]](#) [\[preprint\]](#) [\[preregistration\]](#) [\[data\]](#) [\[materials\]](#) [\[analysis-code\]](#) [\[reproducible-container\]](#)

TARG Meta-Research Group & Collaborators. (2023) **[project lead]**. Estimating the prevalence of discrepancies between study registrations and publications: A systematic review and meta-analyses. *BMJ Open*.

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**Thibault, R. T.**, Pennington, C. R., Munafò, M. R. (2023). Reflections on Preregistration: Core Criteria, Badges, Complementary Workflows. *Journal of Trial and Error*.

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TARG Meta-Research Group & Collaborators (2022) **[project lead]**. Discrepancy review: A feasibility study of a novel peer review intervention to reduce undisclosed discrepancies between registrations and publications. *Royal Society Open Science*.

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**Thibault, R. T.**, Pedder, H. (2022). Neurofeedback: Power miscalculations and excess significance.

*NeuroImage: Clinical*.

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TARG Meta-Research Group (2022) **[project lead]**. Statistics education in undergraduate psychology: A survey of UK curricula. *Collabra: Psychology*.

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Hardwicke, T. E., **Thibault, R. T.**, Kosie, J. E., Tzavella, L., Bendixen, T., Handcock, S. A. Köneke, V. E., Ioannidis, J. P. A. (2022). Post-publication critique at top-ranked journals across scientific disciplines: A cross-sectional assessment of policies and practice. *Royal Society Open Science*.

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- Hoogeveen, S., Sarafoglou, A., ... Wagenmakers E. J. (2022) [middle author]. A many-analysts approach to the relation between religiosity and well-being. *Religion, Brain & Behavior*.  
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- Hardwicke, T. E., Szűcs, D., **Thibault, R. T.**, Crüwell, S., van den Akker, O. R., Nuijten, M. B., & Ioannidis, J. P. (2021). Citation Patterns Following a Strongly Contradictory Replication Result: Four Case Studies From Psychology. *Advances in Methods and Practices in Psychological Science*.  
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- Ros, T., Enriquez-Geppert, S., Zotev, V., Young, K. D., Wood, G., Whitfield-Gabrieli, S., ... & **Thibault, R. T.** (2020). Consensus on the reporting and experimental design of clinical and cognitive-behavioural neurofeedback studies (CRED-nf checklist). *Brain*.  
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- Kohl, S. H., Mehler, D. M., **Thibault, R. T.**, Konrad, K., Lührs, M., & Sorger, B. (2020). The potential of functional near-infrared spectroscopy-based neurofeedback—a systematic review and recommendations for best practice. *Frontiers in Neuroscience*.  
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- Thibault, R. T.**, & Raz, A. (2017). The Psychology of Neurofeedback: Clinical Intervention even if Applied Placebo. *American Psychologist*.  
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- Lifshitz, M., **Thibault, R. T.**, Roth, R., & Raz, A. (2017). Source-localization of brain states associated with canonical neuroimaging postures. *Journal of Cognitive Neuroscience*.  
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- Thibault, R. T.**, Lifshitz, M., & Raz, A. (2016). The Self-Regulating Brain and Neurofeedback: Experimental Science and Clinical Vogue. *Cortex*.  
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- Thibault, R. T.**, & Raz, A. (2016). Imaging Posture Veils Neural Signals. *Frontiers in Human Neuroscience*.  
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- Thibault, R. T.**, Lifshitz, M., & Raz, A. (2016). Body position alters human resting-state: Insights from multi-postural magnetoencephalography. *Brain Imaging and Behavior*.

[paper] [postprint]

**Thibault, R. T.**, Lifshitz, M., Birbaumer, N., & Raz, A. (2015). Neurofeedback, Self-Regulation, and Brain Imaging : Clinical Science and Fad in the Service of Mental Disorders. *Psychotherapy and Psychosomatics*.

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**Thibault, R. T.**, Lifshitz, M., Jones, J. M., & Raz, A. (2014). Posture alters human resting-state. *Cortex*.

[paper] [postprint]

## Preprints

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Cobey, K. D., Ebrahimzadeh, S., Page, M. J., **Thibault, R. T.**, Nguyen, P., Abu-Dalfa, F., Moher, D. (2023). Biomedical researchers' perspectives on the reproducibility of research: a cross-sectional international survey. *bioRxiv*. <https://doi.org/10.1101/2023.09.18.558287>

## Commentaries

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Axforss, C., **Thibault, R.**, Goodman S. N. (2023). I replikationskrisens spår agerar länder mot utbredda metodbrister [Swedish language article] *Lakartidningen*. <https://lakartidningen.se/wp-content/uploads/2023/05/23011.pdf>

**Thibault, R. T.**, Munafò, M. R., & Moher D. (2022). Rigour and reproducibility in Canadian research: Call for a coordinated approach. *FACETS* <https://doi.org/10.1139/facets-2021-0162>

**Thibault, R. T.** & Munafò, M. R. (2020). Commentary: Improving our statistical inferences requires meta-research. *International Journal of Epidemiology*. <https://doi.org/10.1093/ije/dyaa051>

**Thibault, R. T.**, & Raz, A. (2018). A Consensus Framework for Neurofeedback Research (and the perils of unfounded neuroreductionism). *American Psychologist*. <https://doi.org/10.1037/amp0000366>

**Thibault, R. T.**, Veissière, S., Olson, J. A., & Raz, A. (2018). EEG-Neurofeedback and the Correction of Misleading Information: A Reply to Pigott and Colleagues. *Journal of Attention Disorders*. <https://doi.org/10.1177/1087054718808379>

**Thibault, R. T.**, Veissière S., Olson, J. A., Raz, A. (2018). Treating ADHD with Suggestion: Neurofeedback and Placebo Therapeutics. *Journal of Attention Disorders*. <https://doi.org/10.1177%2F1087054718770012>

**Thibault, R. T.**, Lifshitz, M., & Raz, A. (2018). The Climate of Neurofeedback: Scientific Rigour and the Perils of Ideology. *Brain*. <https://doi.org/10.1093/brain/awx330>

**Thibault, R. T.**, Lifshitz, M., & Raz, A. (2017). Neurofeedback or Neuroplacebo? *Brain*. <https://doi.org/10.1093/brain/awx033>

**Thibault, R. T.**, & Raz, A. (2016). Neurofeedback: The power of psychosocial therapeutics. *The Lancet Psychiatry*. [https://doi.org/10.1016/s2215-0366\(16\)30326-1](https://doi.org/10.1016/s2215-0366(16)30326-1)

**Thibault, R. T.**, & Raz, A. (2016). When can neurofeedback join the clinical armamentarium? *The Lancet Psychiatry*. [https://doi.org/10.1016/S2215-0366\(16\)30040-2](https://doi.org/10.1016/S2215-0366(16)30040-2)

## Books and book chapters

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Raz, A., **Thibault, R. T.** (eds.) (2019). Casting Light on the Dark Side of Brain Imaging. *Academic Press*.  
<https://doi.org/10.1016/C2017-0-03496-1>

**Thibault, R. T.**, & Raz, A. (2019). MRI artifacts in psychiatry: Head motion, breathing, and other systematic confounds. In Casting Light on the Dark Side of Brain Imaging. *Academic Press*.  
<https://doi.org/10.1016/B978-0-12-816179-1.00008-6>

**Thibault, R. T.** (2019). When the Brain Lies: Body Posture Alters Neural Data. In Casting Light on the Dark Side of Brain Imaging. In Casting Light on the Dark Side of Brain Imaging. *Academic Press*.  
<https://doi.org/10.1016/B978-0-12-816179-1.00009-8>

**Thibault, R. T.**, Dahl, L., Raz, A. (2019). Why Neuroimaging can't Diagnose Autism. In Casting Light on the Dark Side of Brain Imaging. In Casting Light on the Dark Side of Brain Imaging. *Academic Press*. <https://doi.org/10.1016/B978-0-12-816179-1.00012-8>

Ghaziri, J., **Thibault, R. T.** (2019). Neurofeedback: An Insider Perspective. In Casting Light on the Dark Side of Brain Imaging. In Casting Light on the Dark Side of Brain Imaging. *Academic Press*.  
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## Other publications

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**Thibault, R. T.**, Aubert Bonn, N., Higino, G., Phillips, E. (2022). Event summary: Brainstorming a Canadian Reproducibility Network to improve research rigour and reproducibility. [https://carn-recar.ca/wp-content/uploads/2022/08/CaRN\\_BrainstormSummary.pdf](https://carn-recar.ca/wp-content/uploads/2022/08/CaRN_BrainstormSummary.pdf)

Pedder, H., **Thibault, R. T.**, (2020). An online tool to facilitate completion of the Consensus on the reporting and experimental design of clinical and cognitive-behavioural neurofeedback studies (CRED-nf checklist). (web application). <https://www.rtfm.org/CREDnf.html>

Metcalfe, J., Wheat, K., Munafò, M., & Parry, J. (2020). Research integrity: A landscape study. [I am a contributor to this UKRI commissioned project, listed in the acknowledgments, but not as an author]. <https://www.ukri.org/wp-content/uploads/2020/10/UKRI-020920-ResearchIntegrityLandscapeStudy.pdf>

**Thibault, R. T.**, MacPherson, A., Harnad, S., & Raz, A. (2018, August 18). The Rent's too High: Self-Archive for Fair Online Publication Costs. *PsyArXiv*. <https://doi.org/10.31234/osf.io/hk4gn>

**Thibault, R. T.** (2018) Brain Training: Buyer Beware (blog).  
*TruthInAdvertising.org*. <https://www.truthinadvertising.org/brain-training-buyer-beware/>

**Thibault, R. T.** (2018). The Fake News Effect in Biomedicine (blog). *The Neuroethics Blog*.  
<https://web.archive.org/web/20230330090503/http://www.theneuroethicsblog.com/2018/04/the-fake-news-effect-in-biomedicine.html>

**Thibault, R. T.**, MacPherson, A., Roth, R., & Raz, A. (2016). FMRI neurofeedback: Brain self-regulation or biobehavioral intervention? (conference abstract). For the Society for Applied Neuroscience 2016 meeting. *Frontiers in Human Neuroscience*. <https://doi.org/10.3389/conf.fnhum.2016.220.00092>

**Thibault, R. T., & Raz, A.** (2016). Placebo science and neurofeedback. (conference abstract). For the Society for Applied Neuroscience 2016 meeting. *Frontier in Human Neuroscience*.  
<https://doi.org/10.3389/conf.fnhum.2016.220.00056>

**Thibault, R. T., Lifshitz, M., & Raz, A.** (2016). The self-regulating brain and neurofeedback: Experimental science and clinical promise. (audioslides). *Cortex*. <https://osf.io/7dpv5>

**Thibault, R. T., Lifshitz, M., Jones, J. M., & Raz, A.** (2014). Posture alters human resting-state. (audioslides). *Cortex*.