

Full list of peer Reviewed Papers (in chronological order)

1. Lengersdorff, L. L., Wagner, I. C., Mittmann, G., Sastre-Yagüe, D., Lüttig, A., Olsson, A., Petrovic, P., & **Lamm, C.** (2023). Neuroimaging and behavioral evidence that violent video games exert no negative effect on human empathy for pain and emotional reactivity to violence. *ELife*, 12. <https://doi.org/10.7554/eLife.84951>
2. Doell, K. C., Berman, M., Bratman, G. N., Knutson, B., Kühn, S., **Lamm, C.**, Pahl, S., Sawe, N., Van Bavel, J. J., White, M. P., & Brosch, T. (2023) Leveraging neuroscience for climate change research. *Nature Climate Change*. <https://doi.org/10.1038/s41558-023-01857-4>
3. Hartmann, H., Banwinkler, M., Riva, F., & **Lamm, C.** (2023). To respond or not to respond: exploring empathy-related psychological and structural brain differences between placebo analgesia responders and non-responders. *Frontiers in Psychology*, 14. <https://doi.org/10.3389/fpsyg.2023.1257522>
4. Lonardo, L., Völter, C. J., **Lamm, C.**, & Huber, L. (2023). Dogs rely on visual cues rather than on effector-specific movement representations to predict human action targets. *Open Mind*, 7, 588–607. https://doi.org/10.1162/opmi_a_00096
5. Mikus, N., Eisenegger, C., Mathys, C., Clark, L., Müller, U., Robbins, T.W., **Lamm, C.**, & Naef, M. (2023). Blocking D2/D3 dopamine receptors increases volatility of beliefs when we learn to trust others. *Nature Communications*, 14(4049). <https://doi.org/10.1038/s41467-023-39823-5>
6. Boch, M., Wagner, I.C., Karl, S., Huber, L., & **Lamm, C.** (2023). Functionally analogous body- and animacy-responsive areas are present in the dog (*Canis familiaris*) and human occipito-temporal lobe. *Communications Biology*, 6(645). <https://doi.org/10.1038/s42003-023-05014-7>
7. Riva, F., Pronizius, E., Lenger, M., Kronbichler, M., Silani, G., & **Lamm, C.** (2023). Age-related differences in interference control in the context of a finger-lifting task: an fMRI study. *Social Cognitive and Affective Neuroscience*, 18(1). <https://doi.org/10.1093/scan/nsad034>
8. Mielacher, C., Scheele, D., Kiebs, M., Schmitt, L., Dellert, T., Philipsen, A., **Lamm, C.**, & Hurlermann, R. (2021). Altered reward network responses to social touch in major depression. *Psychological Medicine*, 1-9. <https://doi.org/10.1017/S0033291723001617>
9. Kreis, I., Zhang, L., Mittner, M., Syla, L. & **Lamm, C.** et al. (2023). Aberrant uncertainty processing is linked to psychotic-like experiences, autistic traits, and is reflected in pupil dilation during probabilistic learning. *Cognitive, Affective, & Behavioral Neuroscience*. <https://doi.org/10.3758/s13415-023-01088-2>
10. Kutlikova, H., Zhang, L., Eisenegger, C., van Honk, J., **Lamm C.** (2023). Testosterone eliminates strategic prosocial behavior through impacting choice consistency in healthy males. *Neuropsychopharmacology*. <https://doi.org/10.1038/s41386-023-01570-y>
11. Rauchbauer, B., Jank, G., Dunbar, R.I.M., & **Lamm, C.** (2023). Only empathy-related traits, not being mimicked or endorphin release, influence social closeness and prosocial behavior. *Scientific Reports*, 13. <https://doi.org/10.1038/s41598-023-30946-9>
9. Feneberg, A.C., Stijovic, A., Forbes, P.A.G., **Lamm C.**, Piperno G., Pronizius E., Silani G., & Nater, U.M. (2023). Perceptions of stress and mood associated with listening to music in daily life during the covid-19 lockdown. *JAMA Network Open*, 6(1), e2250382. <https://doi.org/10.1001/jamanetworkopen.2022.50382>
10. Stijovic, A.*, Forbes, P.*, Tomova, L., Skoluda, N., Feneberg, A., Piperno, G., Pronizius, E., Nater, U., **Lamm, C.**, & Silani, G. (2023). Homeostatic regulation of energetic arousal during acute social isolation: evidence from the lab and the field. *Psychological Science*, 34(5), 537-551. <https://doi.org/10.1177/09567976231156413>

11. Buchanan, E. M., Lewis, S. C., Paris, B., Forscher, P. S., Pavlacic, J. M., Beshears, J., ... **Lamm, C.**, ..., & Primbs, M. (2023). PSACR: The Psychological Science Accelerator's COVID-19 Rapid-Response Dataset. *Scientific Data*, 10(87).
<https://doi.org/10.1038/s41597-022-01811-7>
12. Wagner, I. C., Graichen, L. P., Todorova, B., Lüttig, A., Omer, D. B., Stangl, M. & **Lamm, C.** (2023). Entorhinal grid-like codes and time-locked network dynamics track others navigating through space. *Nature Communications*, 14(231).
<https://doi.org/10.1038/s41467-023-35819-3>
13. Tik, M., Woletz, M., Schuler, A., Vasileiadi, M., Cash, R., Zalesky, A., **Lamm, C.** & Windischberger, C. (2022). Acute TMS/fMRI response explains offline TMS network effects – An interleaved TMS-fMRI study. *NeuroImage*, 119833.
<https://doi.org/10.1016/j.neuroimage.2022.119833>
14. Azevedo, F., Pavlović, T., Rêgo, G. G. d., Ay, F. C., Gjoneska, B., Etienne, T., ... **Lamm C.**, ..., Sampaio, W. M. (2022). Social and moral psychology of COVID-19 across 69 countries. *Scientific Data*, accepted for publication.
<https://doi.org/10.31234/osf.io/a3562>
15. Mikus, N., Korb, S., Massaccesi, C., Gausterer, C., Graf, I., Willeit, M., Eisenegger, C., **Lamm, C.**, Silani, G., & Mathys, C. (2022). Effects of dopamine D2/3 and opioid receptor antagonism on the trade-off between model-based and model-free behaviour in healthy volunteers. *eLife*, 11, e79661. <https://doi.org/10.7554/eLife.79661>
16. Guran, C.-N. A., Sladky, R., Karl, S., Boch, M., Laistler, E., Windischberger, C., Huber, L., & **Lamm, C.** (2022). Validation of a new coil array tailored for dog functional magnetic resonance imaging (fMRI) studies. *eNeuro*, accepted for publication.
<https://doi.org/10.1101/2022.06.14.496064>
17. Müllner-Huber, A., Anton-Boicuk, L., Pronizius, E., Lengersdorff, L., Olsson, A., & **Lamm, C.** (2022). The causal role of affect sharing in driving vicarious fear learning. *PLOS ONE*, 17(11), e0277793. <https://doi.org/10.1371/journal.pone.0277793>
18. Nitschke, J., Forbes, P., & **Lamm, C.** (2022). Does stress make us more—or less—prosocial? A systematic review and meta-analysis of the effects of acute stress on prosocial behaviours using economic games. *Neuroscience & Biobehavioral Reviews*, 142, 104905. <https://doi.org/10.1016/j.neubiorev.2022.104905>
19. Forbes, P., Pronizius, E., Feneberg, A., Nater, U., Piperno, G., Silani, G., Stijovic, A., & **Lamm, C.** (2022). The effects of social interactions on momentary stress and mood during COVID-19 lockdowns. *British Journal of Health Psychology*, 28, 306– 319.
<https://doi.org/10.1111/bjhp.12626>
20. Hartmann, H., Forbes, P., Rütgen, M., & **Lamm, C.** (2022). Placebo analgesia reduces costly prosocial helping to lower another's pain. *Psychological Science*, 33(11), 1867–1881. <https://doi.org/10.1177/09567976221119727>
21. Zhao, Y., Zhang, L., Rütgen, M., Sladky, R., & **Lamm, C.** (2022). Effective connectivity reveals distinctive patterns in response to others' genuine affective experience of disgust. *NeuroImage*, 259, 119404.
<https://doi.org/10.1016/j.neuroimage.2022.119404>
22. Dorison, C., Lerner, J., Heller, B. H., ... **Lamm, C.**, ..., & Sievers, E. (2022). In COVID-19 health messaging, loss framing increases anxiety with little-to-no concomitant benefits: Experimental evidence from 84 countries. *Affective Science*, 3, 577-602.
<https://doi.org/10.1007/s42761-022-00128-3>
23. Pavlović, T., Azevedo, F., De, K., ... **Lamm, C.**, ..., & Van Bavel, J. J. (2022). Predicting attitudinal and behavioral responses to COVID-19 pandemic using machine learning. *PNAS Nexus*, 1(3), pgac093. <https://doi.org/10.1093/pnasnexus/pgac093>
24. Bago, B., Kovacs, M., Protzko, J., ... **Lamm, C.**, ..., & Aczel, B. (2022). Situational factors shape moral judgements in the trolley dilemma in Eastern, Southern and Western countries in a culturally diverse sample. *Nature Human Behaviour*, 6, 880-895.
<https://doi.org/10.1038/s41562-022-01319-5>

25. ***Feneberg, A. C., Forbes, P. A. G., Piperno, G., Pronizius, E., Stijovic, A., Skoluda, N., **Lamm, C.**, Nater, U. M., & Silani, G. (2022). Diurnal dynamics of stress and mood during COVID-19 lockdown: a large multinational ecological momentary assessment study. *Proceedings of the Royal Society B: Biological Sciences*, 289(1975), 20212480. <https://doi.org/10.1098/rspb.2021.2480>
26. Psychological Science Accelerator Self-Determination Theory Collaboration. (2022). A global experiment on motivating social distancing during the COVID-19 pandemic. *Proceedings of the National Academy of Sciences USA*, 119(22), e2111091119. <https://doi.org/10.1073/pnas.2111091119> (**Claus Lamm** acted as a local PI and co-author within the consortium)
27. Riva, F., Lenger, M., Kronbichler, M., **Lamm, C.**, & Silani, G. (2022). The role of right supra-marginal gyrus and secondary somatosensory cortex in age-related differences in human emotional egocentricity. *Neurobiology of Aging*, 112, 102-110. <https://doi.org/10.1016/j.neurobiolaging.2022.01.002>
28. Massaccesi, C., Willeit, M., Quednow, B. B., Nater, U. M., **Lamm, C.**, Müller, D., & Silani, G. (2022). Opioid-blunted cortisol response to stress is associated with increased negative mood and wanting of social reward. *Neuropsychopharmacology*, 1-10. <https://doi.org/10.1038/s41386-022-01283-8>
29. ***Van Bavel, J., Cichocka, A., Capraro, V., ... **Lamm, C.**, ..., & Boggio, P. (2022). National identity predicts public health support during a global pandemic. *Nature Communications*, 13, 517. <https://doi.org/10.1038/s41467-022-29658-x>
30. ***Sladky, R., Riva, F., Rosenberger, L. A., van Honk, J., & **Lamm, C.** (2021). Basolateral and central amygdala orchestrate how we learn whom to trust. *Communications Biology*, 4(1), 1-9. <https://doi.org/10.1038/s42003-021-02815-6>
31. Paul, K., Tik, M., Hahn, A., Sladky R., Geissberger, N., Seidel, E.M., Kranz, G.S., Pfabigan, D.M., Kraus, C., Lanzenberger, R., **Lamm, C.**, & Windischberger C. (2021). Give me a pain that I am used to: Distinct habituation patterns for painful and non-painful stimulation. *Scientific Reports*, 11, 22929. <https://doi.org/10.1038/s41598-021-01881-4>
32. Sladky, R., Hahn, A., Karl, I.L., Geissberger, N., ... **Lamm, C.**, & Windischberger, C. (2021). Dynamic causal modeling of the prefrontal-amygdala network during processing of emotional faces. *Brain Connectivity*, 12(7), 670-682. <https://doi.org/10.1089/brain.2021.0073>
33. Wittmann, M., Faber, N., & **Lamm, C.** A neuroscientific perspective on the computational theory of social groups (commentary). *Behavioral and Brain Sciences*, 45, e126. <https://doi.org/10.1017/S0140525X2100128X>
34. Veselic, S., Jocham, G., Gausterer, C., Wagner, B., Ernhofer-Rebler, M., Lanzenberger, R., **Lamm, C.**, Eisenegger, C., & Losecaat Vermeer, A. (2021). A causal role for estradiol in human reinforcement learning. *134*, 105022. <https://doi.org/10.1016/j.yhbeh.2021.105022>
35. ***Zhao, Y., Zhang, L., Rütgen, M., Sladky, R., & **Lamm, C.** (2021). Neural dynamics between anterior insular cortex and right supramarginal gyrus dissociate genuine affect sharing from perceptual saliency of pretended pain. *eLife*, e69994. <https://doi.org/10.7554/eLife.69994>
36. ***Cutler, J., Nitschke, J. P., **Lamm, C.**, & Lockwood, P. L. (2021). Older adults across the globe exhibit increased prosocial behaviour but also greater ingroup preferences. *Nature Aging*, 1, 880-888. <https://doi.org/10.17605/OSF.IO/9WVP4>
37. Ugazio, G., Grueschow, M., Polania, R., **Lamm, C.**, Tobler, P. N., & Ruff, C. C. (2021). Neural-computational foundations of moral preferences. *Social Cognitive and Affective Neuroscience*, 00, 1-13. <https://doi.org/10.1093/scan/nsab100>

38. Karl, S., Sladky, R., **Lamm, C.** *, & Huber, L. * (2021). Neural responses of pet dogs witnessing their caregiver's positive interactions with a conspecific: an fMRI study. *Cerebral Cortex Communications*, 2, 1-12. <https://doi.org/10.1093/texcom/tgab047>
39. Hartmann, H., Riva, F., Rütgen, M., & **Lamm, C.** (2021). Placebo analgesia does not reduce empathy for naturalistic depictions of others' pain in a somatosensory specific way. *Cerebral Cortex Communications*, 2, 1-16. <https://doi.org/10.1093/texcom/tgab039>
40. Wang, K., Goldenberg, A., Dorison, C.A., Miller, J.K., ... **Lamm, C.**, ... Moshontz, H. (2021). A multi-country test of brief reappraisal interventions on emotions during the COVID-19 pandemic. *Nature Human Behaviour*, 5, 1089–1110. <https://doi.org/10.1038/s41562-021-01173-x>
41. Yao, Y., Chopurian, V., Zhang, L., **Lamm, C.**, & Heekeren, H. R. (2021). Effects of non-invasive brain stimulation on visual perspective taking: A meta-analytic study. *NeuroImage*, 242, 118462. <https://doi.org/10.1016/j.neuroimage.2021.118462>
42. Schurz, M., Uddin, L. Q., Kanske, P., **Lamm, C.**, Sallet, J., Bernhardt, B. C., Mars, R. B., & Bzdok, D. (2021). Variability in Brain Structure and Function Reflects Lack of Peer Support. *Cerebral Cortex*, bhab109. <https://doi.org/10.1093/cercor/bhab109>
43. Rütgen, M., Pfabigan, D. M., Tik, M., Kraus, C., Pletti, C., Sladky, R., Klöbl, M., Woletz, M., Vanicek, T., Windischberger, C., Lanzenberger, R., & **Lamm, C.** (2021). Detached empathic experience of others' pain in remitted states of depression – an fMRI study. *NeuroImage: Clinical*, 31, 102699. <https://doi.org/10.1016/j.nicl.2021.102699>
44. ***Lonardo, L., Völter, C. J., **Lamm, C.**, & Huber, L. (2021). Dogs follow human misleading suggestions more often when the informant has a false belief. *Proceedings of the Royal Society B*, 288(1955), 20210906. <https://doi.org/10.1098/rspb.2021.0906>
45. Kutlikova, H. H., Geniole, S. N., Eisenegger, C., **Lamm, C.**, Jocham, G. & Studer, B. (2021). Not giving up: Testosterone promotes persistence against a stronger opponent. *Psychoneuroendocrinology*, 128, 105214. <https://doi.org/10.1016/j.psyneuen.2021.105214>
46. ***Zunhammer, M., Spisák, T., Wager, T. D., Bingel, U., ... **Lamm, C.**, ... Zeidan, F. (2021). Meta-analysis of neural systems underlying placebo analgesia from individual participant fMRI data. *Nature Communications*, 12, 1391. <https://doi.org/10.1038/s41467-021-21179-3>
47. Bukowski, H., Todorova, B., Boch, M., Silani, G., & **Lamm, C.** (2021). Socio-cognitive training impacts emotional and perceptual self-salience but not self-other distinction. *Acta Psychologica*, 216, 103297. <https://doi.org/10.1016/j.actpsy.2021.103297>
48. Pfabigan, D. M., Rütgen, M., Kroll, S. L., Riečanský, I. & **Lamm, C.** (2021). The administration of the opioid buprenorphine decreases motivational error signals. *Psychoneuroendocrinology*, 105199. <https://doi.org/10.1016/j.psyneuen.2021.105199>
49. Adriaense, J. E. C., Šlipogor, V., Hintze, S., Marshall, L., **Lamm, C.** & Bugnyar, T. (2021). Watching others in a positive state does not induce optimism bias in common marmosets (*Callithrix jacchus*), but leads to behaviour indicative of competition. *Animal Cognition*. <https://doi.org/10.1007/s10071-021-01497-1>
50. Rauchbauer, B., Lorenz, C., **Lamm, C.** & Pfabigan, D. M. (2021). Interplay of self-other distinction and cognitive control mechanisms in a social automatic imitation tasks: An ERP study. *Cognitive, Affective & Behavioral Neuroscience*, <https://doi.org/10.3758/s13415-021-00878-w>
51. Kroll, S. L., Thayer, J. F., Williams, D. P., Pfabigan, D. M., Baumgartner, M. R., **Lamm, C.**, & Quednow, B. B. (2021). Chronic nonmedical prescription opioid use and empathy for pain: Does pain make the difference? *Psychophysiology*, 58, e13776. <https://doi.org/10.1111/psyp.13776>
52. Rütgen, M., Wirth, E., Riečanský, I., Hummer, A., Windischberger, C., Petrovic, P., Silani, G., & **Lamm, C.** (2021). Beyond sharing unpleasant affect —Evidence for pain-

- specific opioidergic modulation of empathy for pain. *Cerebral Cortex*, 31(6), 2773-2786. <https://doi.org/10.1093/cercor/bhaa385>
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54. ***Wagner, I. C., Konrad, B. N., Schuster, P., Weisig, S., Repantis, D., Ohla, K., Kühn, S., Fernández, G., Steiger, A., **Lamm, C.**, Czisch, M., & Dresler, M. (2020). Durable memories and efficient neural coding through mnemonic training using the method of loci. *Science Advances*, 7(10), eabc7606. <https://doi.org/10.1126/sciadv.abc7606>
55. Karl, S., Boch, M., Zamansky, A., van der Linden, D., Wagner, I. C., Völter, C. J., **Lamm, C.**, & Huber, L. (2020). Exploring the dog-human relationship by combining fMRI, eye-tracking and behavioural measures. *Scientific Reports*, 10, 22273. <https://doi.org/10.1038/s41598-020-79247-5>
56. Mielacher, C., Schultz, J., Kiebs, M., Dellert, T., Metzner, A., Graute, L., Högenauer, H., Maier, W., **Lamm, C.**, & Hurlmann, R. (2020). Individualized theta-burst stimulation modulates hippocampal activity and connectivity in patients with major depressive disorder. *Personalized Medicine in Psychiatry*, 23, 100066. <https://doi.org/10.1016/j.pmip.2020.100066>
57. Nitschke, J. P., Forbes, P. A., Ali, N., Cutler, J., Apps, M. A., Lockwood, P. L., & **Lamm, C.** (2020). Resilience during uncertainty? Greater social connectedness during COVID-19 lockdown is associated with reduced distress and fatigue. *British Journal of Health Psychology*, 26, 553-569. <https://doi.org/10.1111/bjhp.12485>
58. Jones, B., DeBruine, L. M., Flake, J. K., Liuzza, M. T., Antfolk, J., Arinze, N. C., ...**Lamm, C.**,... & Willis, M. (2021). To which world regions does the valence-dominance model of social perception apply? *Nature Human Behaviour*, 5, 159-169. <https://doi.org/10.31234/osf.io/n26dy>
59. Forbes, P., Korb, S., Radloff, A., & **Lamm, C.** (2020). The effects of self-relevance vs. reward value on facial mimicry. *Acta Psychologica*, 212, 103193. <https://doi.org/10.1016/j.actpsy.2020.103193>
60. Boch, M., Karl, S., Sladky, R., Huber, L., **Lamm, C.**, & Wagner, I. C. (2020). Tailored haemodynamic response function increases detection power of fMRI in awake dogs (*Canis familiaris*). *NeuroImage*, 224, 117414. <https://doi.org/10.1016/j.neuroimage.2020.117414>
61. Hartmann, H., Rütgen, M., Riva, F., & **Lamm, C.** (2020). Another's pain in my brain: No evidence that placebo analgesia affects the sensory-discriminative component in empathy for pain. *NeuroImage*, 224, 117397. <https://doi.org/10.1016/j.neuroimage.2020.117397>
62. Lengersdorff, L. L., Wagner, I. C., Lockwood, P. L., & **Lamm, C.** (2020). When implicit prosociality trumps selfishness: The neural valuation system underpins more optimal choices when learning to avoid harm to others than to oneself. *Journal of Neuroscience*, 40(38), 7286-7299. <https://doi.org/10.1523/JNEUROSCI.0842-20.2020>
63. Rauchbauer, B., Dunbar, R., & **Lamm, C.** (2020) Being mimicked affects inhibitory mechanisms of imitation. *Acta Psychologica*, 209, 103132. <https://doi.org/10.1016/j.actpsy.2020.103132>
64. Zhang, L.*, Lengersdorff, L.*, Mikus, N., Gläscher, J., & **Lamm, C.** (2020). Using reinforcement learning models in social neuroscience: frameworks, pitfalls, and suggestions of best practices. *Social Cognitive and Affective Neuroscience*, 15 (6), 695-707. <https://doi.org/10.1093/scan/nsaa089>
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67. Bikson, M., Hanlon, C. A., Woods, A. J., Gillick, B. T., Charvet, L., **Lamm, C.**, Madeo, G., Holczer, A., Almeida, J., Antal, A., Reza Ay, M., Baeken, C., Blumberger, D. M., Campanella, S., Camprodon, J. A., Christiansen, L., Loo, C., Crinion, J. T., Fitzgerald, P., ... & Ekhtiari, H. (2020). Guidelines for TMS/tES clinical services and research through the COVID-19 pandemic. *Brain Stimulation, 13*, 1124-1149. <https://doi.org/10.1016/j.brs.2020.05.010>
68. Botvinik-Nezer, R., Holzmeister, F., Camerer, C. F., Dreber, A., Huber, J., ... **Lamm, C.**, ... & Schonberg, T. (2020). Variability in the analysis of a single neuroimaging dataset by many teams. *Nature, 582*, 84-88. <https://doi.org/10.1038/s41586-020-2314-9>
69. Kutlikova, H. H., Babková Durdiková, J., Wagner, B., Vlček, M., Eisenegger, C., **Lamm, C.**, & Riečanský, I. (2020). The effects of testosterone on the physiological response to social and somatic stressors. *Psychoneuroendocrinology, 117*, 104693. <https://doi.org/10.1016/j.psyneuen.2020.104693>
70. Bukowski, H., Tik, M., Silani, G., Ruff, C. C., Windischberger, C., & **Lamm, C.** (2020). When differences matter: rTMS/fMRI reveals how differences in dispositional empathy translate to distinct neural underpinnings of self-other distinction in empathy. *Cortex, 128*, 143-161. <https://doi.org/10.1016/j.cortex.2020.03.009>
71. Wagner, I. C., Rütgen, M., & **Lamm, C.** (2020). Pattern similarity and connectivity of hippocampal-neocortical regions support empathy for pain. *Social Cognitive and Affective Neuroscience, 15*, 273-284. <https://doi.org/10.1093/scan/nsaa045>
72. Adriaense, J., Koski, S. E., Huber, L., & **Lamm, C.** (2020). Challenges in the comparative study of empathy and related phenomena in animals. *Neuroscience and Biobehavioral Reviews, 112*, 62-82. <https://doi.org/10.1016/j.neubiorev.2020.01.021>
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74. Riečanský, I., Lengersdorff, L. L., Pfabigan, D. M., & **Lamm, C.** (2020). Increasing self-other bodily overlap increases sensorimotor resonance to others' pain. *Cognitive, Affective, & Behavioral Neuroscience, 20*(1), 19-33. <https://doi.org/10.3758/s13415-019-00724-0>
75. Bartel, G., Marko, M., Rameses, I., **Lamm, C.**, & Riečanský, I. (2020). Left Prefrontal Cortex Supports the Recognition of Meaningful Patterns in Ambiguous Stimuli. *Frontiers in Neuroscience, 14*, 152. <https://doi.org/10.3389/fnins.2020.00152>
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