

DR. KATHARINA MARIA BROSCH

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RESEARCH EXPERIENCE

Postdoctoral Fellow <i>Feinstein Institutes for Medical Research, NY, US</i> (<i>PI: Dr. Elvisha Dhamala</i>) - Applied machine learning models to analyze multimodal behavioral and neuroimaging data investigating brain structural changes associated with psychiatric risk and resilience.	since 08/2023
Postdoctoral Fellow <i>University of Marburg, Germany</i> (<i>PI: Dr. Nina Alexander</i>) - Led design and execution of MRI study on Post-COVID neurological outcomes, secured research funding (€1,385). - Coordinated large-scale international collaborations as part of the ENIGMA consortium.	2021- 2023
PhD student <i>University of Marburg, Germany</i> (<i>PI: Dr. Tilo Kircher</i>) - Managed and analyzed complex datasets integrating neuroimaging, clinical diagnostics, and neuropsychological testing in the FOR2107 study. - Conducted clinical interviews and neuropsychological assessments with psychiatric populations.	2018 - 2021
Research assistant <i>University of Mainz, Germany</i>	2018
Research assistant <i>University of Ulm, Germany</i>	2016

EDUCATION

PhD Neuroscience <i>University of Marburg, Germany</i> Thesis: "The interaction of risk and protective factors for mental disorders on psychopathology and brain morphometry" (Summa cum laude)	2018 - 2022
Master of Science, Psychology <i>University of Mainz, Germany</i>	2016 - 2018
Bachelor of Science, Psychology <i>University of Ulm, Germany</i>	2014 – 2016
Bachelor Studies Psychology <i>Hochschule für Gesundheit und Sport, Ismaning, Germany</i>	2011 - 2014

AWARDS, HONORS, AND FUNDING

- Advancing Women in Science and Medicine (AWSM) Young Investigator Award (\$3,000)	April 2025
- Selected for Scientific Session and Travel Award for ABCD Insights & Innovations Meeting (AIIM25) in Bethesda, US	March 2025
- Selected as Early-Career Scientist Short Talk and Travel Grant for Resilience Symposium Mainz 2024, Germany (\$1,900)	September 2024
- International Brain Research Organization (IBRO) Travel Grant (\$1,900)	July 2024
- Advancing Women in Science and Medicine (AWSM) Educational Advancement Award (\$5,000)	April 2024
- Selected as Early-Career Scientist Short Talk and Travel Grant for Resilience Symposium Mainz 2022, Germany	September 2022
- Internal funding for a Research Assistant for Post-COVID Study (1,385.10€)	May 2022
- Presentation Award at DGPPN conference in Berlin, Germany (500€)	November 2021
- Conference Travel Grant from Center for Mind, Brain, and Behavior, Germany (CMBB) (450€)	November 2019

TEACHING

- **Frankfurt University of Applied Sciences, Germany** Winter Semester
Social Work Bachelor's Seminar *Psychosocial Disorders*, 22/23
3.75 hrs/wk, 12 wks ($n = 20$; 5 teaching units)
- **University of Marburg, Germany**
Neuroscience Master's Seminar *Neurobiology of personality and cognitive abilities*,
1.5 hrs/wk, 12 wks ($n = 7$; 2 teaching units)
- **Frankfurt University of Applied Sciences, Germany** Summer Semester
Social Work Bachelor's Seminar *Psychosocial Disorders*, 22
3.75 hrs/wk, 12 wks ($n = 11$; 5 teaching units)
- **University of Marburg, Germany**
Neuroscience Master's Seminar *Neurobiology of personality and cognitive abilities*,
1.5 hrs/wk, 12 wks ($n = 6$; 2 teaching units)
- Supervised a summer intern 2024
- Supervised two master theses 2022 – 2023
- Supervised interns, medical students and research assistants 2018 - 2023

ORAL PRESENTATIONS & INVITED RESEARCH TALKS

- "Tracking the Impact of Childhood Adversity on Brain Development", March 2025
ABCD Insights & Innovations Meeting in Bethesda, US,
Scientific Session Presentation
- "Risk and protective factors for psychiatric illnesses and their joint impact on brain June 2024
and behavior." [Symposium](#) at OHBM in Seoul, South Korea,
Symposium Chair and Presenter
- "Experiences of extreme physical and sexual violence are associated with cortical September 2024
thinning in children: an Adolescent Brain and Cognitive Development Study",
Resilience Symposium Mainz, Germany, **Early-Career Scientist Short Talk**
- "Transdiagnostic morphometric correlates of psychopathology in major depression, March 2023
bipolar disorder and schizophrenia spectrum disorder", Zucker Hillside Hospital,
Feinstein Institutes for Medical Research, Glen Oaks, NY, **Oral Presentation**
- "Hold me tight – Clinical and neural correlates of interpersonal resilience", September 2022
Resilience Symposium Mainz, Germany, **Early-Career Scientist Short Talk**
- "Shared hippocampal atrophy in patients with major psychiatric disorders", November 2021
DGPPN conference in Berlin, Germany, **Oral Presentation**
- "DLPFC volume is a neural correlate of resilience in healthy high-risk individuals July 2021
with both childhood maltreatment and familial risk for depression",
[Lecture](#) at Leibniz Institute for Resilience, **Oral Presentation**

TECHNICAL SKILLS

Python, scikit-learn, R, PROCESS, SPSS, CAT12, SPM, FSL, Neuropsychological & Clinical Testing

AD HOC REVIEWER

Biological Psychiatry, Psychological Medicine, Neuroscience & Behavioral Reviews, Medical Principles and Practice, Journal of Clinical Psychology, Harvard Review of Psychiatry

TRAININGS

- Attended Project Management for Scientists Course September 2021
- Attended COGNOMICS Workshop "Capturing the Brain for Neuroimaging Genomics" June 2021
- Attended Critical Reasoning and Logic Course May 2021
- Attended SPM Workshop Functional Imaging & Matlab UKE Hamburg, Germany September 2019
- Training as Systemic Counselor and Coach 2016

LANGUAGES

German (native), English (C1), French (B2), Spanish (B2), Latin

FIRST AUTHOR

1. **Brosch, K.**, Wiersch, L., Christensen, E., Rakesh, D., Hanson, J., Schwartz, R. M. & Dhamala, E. Shared Neural Signatures of Socioeconomic Status, Scarcity, and Neighborhood Threat in Youth. *bioRxiv* 2025.06.11.659188 (2025). <https://doi.org/10.1101/2025.06.11.659188> (Preprint)
2. **Brosch, K.**, Hammes, V., Usemann, P., Stein, F., Zika, S., Schrott, F., ... & Alexander, N. (2025). Unique neural signatures of childhood sexual abuse revisited. *medRxiv*, 2025-02. <https://doi.org/10.1101/2025.02.10.25322009> (Under Review).
3. **Brosch, K.**, Christensen, E., Wiersch, L., Hagen, D., Orchard, E. R., D'Anna-Hernandez, K., Stolzenberg, D. S., & Dhamala, E. (2025). Commentary on "Having two children might be best for women's mental health: Evidence from UK Biobank". *Journal of affective disorders*, 119687. Advance online publication. <https://doi.org/10.1016/j.jad.2025.119687>
4. **Brosch, K.**, Dhamala, E. Influences of sex and gender on the associations between risk and protective factors, brain, and behavior. *Biology of Sex Differences* 15, 97 (2024). <https://doi.org/10.1186/s13293-024-00674-4>
5. **Brosch, K.***, Stein, F.*, Schmitt, S., Pfarr, J. K., Ringwald, K. G., Thomas-Odenthal, F., Meller, T., Steinsträter, O., Waltemate, L., Lemke, H., Meinert, S., Winter, A., Breuer, F., Thiel, K., Grotegerd, D., Hahn, T., Jansen, A., Dannlowski, U., Krug, A., Nenadić, I., ... Kircher, T. (2022). Reduced hippocampal gray matter volume is a common feature of patients with major depression, bipolar disorder, and schizophrenia spectrum disorders. *Molecular Psychiatry*, 27(10), 4234–4243. <https://doi.org/10.1038/s41380-022-01687-4>
6. **Brosch, K.**, Meller, T., Pfarr, J. K., Stein, F., Schmitt, S., Ringwald, K. G., Waltemate, L., Lemke, H., Thiel, K., Schrammen, E., Hülsmann, C., Meinert, S., Dohm, K., Leehr, E. J., Opel, N., Krug, A., Dannlowski, U., Nenadić, I., & Kircher, T. (2022). Which traits predict elevated distress during the Covid-19 pandemic? Results from a large, longitudinal cohort study with psychiatric patients and healthy controls. *Journal of Affective Disorders*, 297, 18–25. <https://doi.org/10.1016/j.jad.2021.10.017>
7. **Brosch, K.**, Stein, F., Meller, T., Schmitt, S., Yuksel, D., Ringwald, K. G., Pfarr, J. K., Waltemate, L., Lemke, H., Opel, N., Meinert, S., Dohm, K., Grotegerd, D., Goltermann, J., Repple, J., Winter, A., Jansen, A., Dannlowski, U., Nenadić, I., Kircher, T., ... Krug, A. (2021). DLPFC volume is a neural correlate of resilience in healthy high-risk individuals with both childhood maltreatment and familial risk for depression. *Psychological Medicine*, 52(16), 1–7. Advance online publication. <https://doi.org/10.1017/S0033291721001094>

CO-AUTHOR

8. Dhamala, E., Christensen, E., Hanson, J. L., Ricard, J. A., Arcaro, N., Bhola, S., ... , **Brosch, K.**, ... & Yip, S. (2025). Neuroanatomy Reflects Individual Variability In Impulsivity in Youth. *bioRxiv*, 2025-04. <https://doi.org/10.1101/2025.04.23.650222> (Preprint).
9. Ratzsch, J., Richter, M., Blitz, R., Colic, L., Gutfleisch, L., Goltermann, J., Gruber, M., Straube, B., Alexander, N., Jamalabadi, H., Stein, F., **Brosch, K.**, Thomas-Odenthal, F., Usemann, P., Teutenberg, L., Repple, J., Kircher, T., ..., Opel, N. (2025). Childhood maltreatment's influence on the dynamic course of depression: symptom trajectories during inpatient treatment and after discharge. *Psychological medicine*, 55, e127. <https://doi.org/10.1017/S0033291725000984>
10. Dietze, L. M. F., McWhinney, S. R., Favre, P., Abé, C., Alexander, N., Barkhau, C., Benedetti, F., Berk, M., Bøen, E., Boye, B., **Brosch, K.**, Canales-Rodríguez, E. J., Cannon, D. M., Carruthers, S. P., Corkum, E. L. V., Dannlowski, U., Díaz-Zuluaga, A. M., Dohm, K., Elvsåshagen, T., Flinkenflügel, K., ... ENIGMA BMI-X Working Group (2025). White matter microstructure in obesity and bipolar disorders: an ENIGMA bipolar disorder working group study in 2186 individuals. *Molecular Psychiatry*, 30(5), 1770–1779. <https://doi.org/10.1038/s41380-024-02784-2>
11. Teutenberg, L., Stein, F., Thomas-Odenthal, F., Usemann, P., **Brosch, K.**, Winter, N., Goltermann, J., Leenings, R., Konowski, M., Barkhau, C., Fisch, L., Meinert, S., Flinkenflügel, K., Schürmeyer, N., Bonnekoh, L., Thiel, K., Kraus, A., Alexander, N., Jansen, A., Nenadić, I., ... Kircher, T. (2025). Machine learning-based prediction of illness course in major depression: The relevance of risk factors. *Journal of affective disorders*, 374, 513–522. <https://doi.org/10.1016/j.jad.2025.01.060>
12. Richter, M., Emden, D., Leenings, R., Winter, N. R., Mikolajczyk, R., Massag, J., Zwicky, E., Borgers, T., Redlich, R., Koutsouleris, N., Falguera, R., Edwin Thanarajah, S., Padberg, F., Reinhard, M. A., Back, M. D., Morina, N., Buhlmann, U., Kircher, T., Dannlowski, U., ..., **Brosch, K.**, MBB consortium, ... Opel, N. (2025). Generalizability of clinical prediction models in mental health. *Molecular Psychiatry*, 10.1038/s41380-025-02950-0. Advance online publication. <https://doi.org/10.1038/s41380-025-02950-0>
13. Mundorf, A., Lischke, A., Peterburs, J., Alexander, N., Bonnekoh, L. M., **Brosch, K.**, Flinkenflügel, K., Goltermann, J., Hahn, T., Jansen, A., Meinert, S., Nenadić, I., Schürmeyer, N. N., Stein, F., Straube, B., Thiel, K., Teutenberg, L., Thomas-Odenthal, F., Usemann, P., Winter, A., ... Ocklenburg, S. (2025). Handedness in schizophrenia and affective disorders: a large-scale cross-disorder study. *European archives of psychiatry and clinical neuroscience*, 275(3), 767–783. <https://doi.org/10.1007/s00406-024-01833-9>
14. Kraus, A., Dohm, K., Borgers, T., Goltermann, J., Grotegerd, D., Winter, A., Thiel, K., Flinkenflügel, K., Schürmeyer, N., Hahn, T., Langer, S., Kircher, T., Nenadić, I., Straube, B., Jamalabadi, H., Alexander, N., Jansen, A., Stein, F., **Brosch, K.**, Usemann, P., ... Dannlowski, U. (2025). Brain structural correlates of an impending initial major depressive episode. *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*, 10.1038/s41386-025-02075-6. Advance online publication. <https://doi.org/10.1038/s41386-025-02075-6>
15. Nenadić, I., Mosebach, J., Schmitt, S., Meller, T., Stein, F., **Brosch, K.**, Ringwald, K., Pfarr, J. K., Meinert, S., Lemke, H., Waltemate, L., Thiel, K., Opel, N., Repple, J., Grotegerd, D., Steinsträter, O., Sommer, J., Hahn, T., Jansen, A., Dannlowski, U., ... Kircher, T. (2025). Fronto-Thalamic Structural Connectivity Associated With Schizotypy, a Psychosis Risk Phenotype, in Nonclinical Subjects. *Schizophrenia bulletin*, 51(Suppl 2), S137–S148. <https://doi.org/10.1093/schbul/sbad143>
16. Stein, F., Gudjons, A. M., **Brosch, K.**, Keunecke, L. M., Pfarr, J. K., Teutenberg, L., Thomas-Odenthal, F., Usemann, P., Wersching, H., Wroblewski, A., Flinkenflügel, K., Goltermann, J., Grotegerd, D., Meinert, S., Thiel, K., Winter, A., Alexander, N., Hahn, T., Jamalabadi, H., Jansen, A., ... Kircher, T. (2025). Transdiagnostic types of formal thought disorder and their association with gray matter brain structure: a model-based cluster analytic approach. *Molecular Psychiatry*, 10.1038/s41380-025-03009-w. Advance online publication. <https://doi.org/10.1038/s41380-025-03009-w>
17. Flinkenflügel, K., Meinert, S., Hirtsiefer, C., Grotegerd, D., Gruber, M., Goltermann, J., Winter, N. R., Stein, F., **Brosch, K.**, Leehr, E. J., Böhnlein, J., Dohm, K., Bauer, J., Redlich, R., Hahn, T., Repple, J., Opel, N., Nitsch, R., Jamalabadi, H., Straube, B., ... Dannlowski, U. (2024). Associations between white matter microstructure and cognitive decline in major depressive disorder versus controls in Germany: a prospective case-control cohort study. *The Lancet. Psychiatry*, 11(11), 899–909. [https://doi.org/10.1016/S2215-0366\(24\)00291-8](https://doi.org/10.1016/S2215-0366(24)00291-8)

18. Flinkenflügel, K., Gruber, M., Meinert, S., Thiel, K., Winter, A., Goltermann, J., Usemann, P., **Brosch, K.**, Stein, F., Thomas-Odenthal, F., Wroblewski, A., Pfarr, J. K., David, F. S., Beins, E. C., Grotegerd, D., Hahn, T., Leehr, E. J., Dohm, K., Bauer, J., Forstner, A. J., ... Dannlowski, U. (2024). The interplay between polygenic score for tumor necrosis factor- α , brain structural connectivity, and processing speed in major depression. *Molecular Psychiatry*, 29(10), 3151–3159. <https://doi.org/10.1038/s41380-024-02577-7>
19. Herpertz, J., Goltermann, J., Gruber, M., Blitz, R., Taylor, J., **Brosch, K.**, Stein, F., Straube, B., Meinert, S., Kraus, A., Leehr, E. J., Repple, J., Redlich, R., Gutfleisch, L., Besteher, B., Ratzsch, J., Winter, A., Bonnekoh, L. M., Winter, N. R., Emden, D., ... Opel, N. (2024). The impact of depression and childhood maltreatment experiences on psychological adaptation from lockdown to reopening period during the COVID-19 pandemic. *European neuropsychopharmacology : the journal of the European College of Neuropsychopharmacology*, 83, 59–60. <https://doi.org/10.1016/j.euroneuro.2024.04.006>
20. Sharkey, R. J., Bacon, C., Peterson, Z., Rootes-Murdy, K., Salvador, R., Pomarol-Clotet, E., Karuk, A., Homan, P., Ji, E., Omlor, W., Homan, S., Georgiadis, F., Kaiser, S., Kirschner, M., Ehrlich, S., Dannlowski, U., Grotegerd, D., Goltermann, J., Meinert, S., ... **Brosch, K.**, ... Nickl-Jockschat, T. (2024). Differences in the neural correlates of schizophrenia with positive and negative formal thought disorder in patients with schizophrenia in the ENIGMA dataset. *Molecular Psychiatry*, 29(10), 3086–3096. <https://doi.org/10.1038/s41380-024-02563-z>
21. Molina Galindo, L. S., Gonzalez-Escamilla, G., Fleischer, V., Grotegerd, D., Meinert, S., Ciolac, D., Person, M., Stein, F., **Brosch, K.**, Nenadić, I., Alexander, N., Kircher, T., Hahn, T., Winter, Y., Othman, A. E., Bittner, S., Zipp, F., Dannlowski, U., & Groppa, S. (2024). Concurrent inflammation-related brain reorganization in multiple sclerosis and depression. *Brain, behavior, and immunity*, 119, 978–988. <https://doi.org/10.1016/j.bbi.2024.05.015>
22. Thomas-Odenthal, F., Stein, F., Vogelbacher, C., Alexander, N., Bechdorf, A., Bermpohl, F., Bröckel, K., **Brosch, K.**, Correll, C. U., Evermann, U., Falkenberg, I., Fallgatter, A., Flinkenflügel, K., Grotegerd, D., Hahn, T., Hautzinger, M., Jansen, A., Juckel, G., Krug, A., Lambert, M., ... Kircher, T. (2024). Larger putamen in individuals at risk and with manifest bipolar disorder. *Psychological medicine*, 1–11. Advance online publication. <https://doi.org/10.1017/S0033291724001193>
23. McWhinney, S. R., Hlinka, J., Bakstein, E., Dietze, L. M. F., Corkum, E. L. V., Abé, C., Alda, M., Alexander, N., Benedetti, F., Berk, M., Bøen, E., Bonnekoh, L. M., Boye, B., **Brosch, K.**, Canales-Rodríguez, E. J., Cannon, D. M., Dannlowski, U., Demro, C., Diaz-Zuluaga, A., Elvsåshagen, T., ... Hajek, T. (2024). Principal component analysis as an efficient method for capturing multivariate brain signatures of complex disorders-ENIGMA study in people with bipolar disorders and obesity. *Human brain mapping*, 45(8), e26682. <https://doi.org/10.1002/hbm.26682>
24. Krug, A., Stein, F., David, F. S., Schmitt, S., **Brosch, K.**, Pfarr, J. K., Ringwald, K. G., Meller, T., Thomas-Odenthal, F., Meinert, S., Thiel, K., Winter, A., Waltemate, L., Lemke, H., Grotegerd, D., Opel, N., Repple, J., Hahn, T., Streit, F., Witt, S. H., ... Forstner, A. J. (2024). Factor analysis of lifetime psychopathology and its brain morphometric and genetic correlates in a transdiagnostic sample. *Translational psychiatry*, 14(1), 235. <https://doi.org/10.1038/s41398-024-02936-6>
25. Mundorf, A., Lischke, A., Peterburs, J., Alexander, N., Bonnekoh, L. M., **Brosch, K.**, Flinkenflügel, K., Goltermann, J., Hahn, T., Jansen, A., Meinert, S., Nenadić, I., Schürmeyer, N. R., Stein, F., Straube, B., Thiel, K., Teutenberg, L., Thomas-Odenthal, F., Usemann, P., Winter, A., ... Ocklenburg, S. (2024). Handedness in schizophrenia and affective disorders: a large-scale cross-disorder study. *European archives of psychiatry and clinical neuroscience*, 10.1007/s00406-024-01833-9. Advance online publication. <https://doi.org/10.1007/s00406-024-01833-9>
26. Winter, N. R., Blanke, J., Leenings, R., Ernsting, J., Fisch, L., Sarink, K., Barkhau, C., Emden, D., Thiel, K., Flinkenflügel, K., Winter, A., Goltermann, J., Meinert, S., Dohm, K., Repple, J., Gruber, M., Leehr, E. J., Opel, N., Grotegerd, D., ... **Brosch, K.**, ... Hahn, T. (2024). A Systematic Evaluation of Machine Learning-Based Biomarkers for Major Depressive Disorder. *JAMA Psychiatry*, 81(4), 386–395. <https://doi.org/10.1001/jamapsychiatry.2023.5083>
27. Kennedy, E., Liebel, S. W., Lindsey, H. M., Vadlamani, S., Lei, P. W., Adamson, M. M., Alda, M., Alonso-Lana, S., Anderson, T. J., Arango, C., Asarnow, R. F., Avram, M., Ayasa-Arriola, R., Babikian, T., Banaj, N., Bird, L. J., Borgwardt, S., Brodtmann, A., **Brosch, K.**, Caeyenberghs, K., ... Dennis, E. L. (2024). Verbal Learning and Memory Deficits across Neurological and Neuropsychiatric Disorders: Insights from an ENIGMA Mega Analysis. *Brain sciences*, 14(7), 669. <https://doi.org/10.3390/brainsci14070669>
28. Federmann, L. M., David, F. S., Jockwitz, C., Mühleisen, T. W., Pelzer, D. I., Nöthen, M. M., Caspers, S., Amunts, K., Goltermann, J., Andlauer, T. F. M., Stein, F., **Brosch, K.**, Kircher, T., Cichon, S., Dannlowski, U., Sander, L., & Forstner, A. J. (2024). Associations between antagonistic SNPs for neuropsychiatric disorders and human brain structure. *Translational psychiatry*, 14(1), 406. <https://doi.org/10.1038/s41398-024-03098-1>
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31. Georgiadis, F., Larivière, S., Glahn, D., Hong, L. E., Kochunov, P., Mowry, B., Loughland, C., Pantelis, C., Henskens, F. A., Green, M. J., Cairns, M. J., Michie, P. T., Rasser, P. E., Catts, S., Tooney, P., Scott, R. J., Schall, U., Carr, V., Quidé, Y., **Brosch, K.**, ... Kirschner, M. (2024). Connectome architecture shapes large-scale cortical alterations in schizophrenia: a worldwide ENIGMA study. *Molecular Psychiatry*, 10.1038/s41380-024-02442-7. Advance online publication. <https://doi.org/10.1038/s41380-024-02442-7>
32. Iovoli, F., Hall, M., Nenadić, I., Straube, B., Alexander, N., Jamalabadi, H., Jansen, A., Stein, F., **Brosch, K.**, Thomas-Odenthal, F., Usemann, P., Teutenberg, L., Wroblewski, A., Pfarr, J., Thiel, K., Flinkenflügel, K., Meinert, S., Grotegerd, D., Hahn, T., Goltermann, J., ... Rubel, J. A. (2024). Exploring the complex interrelation between depressive symptoms, risk, and protective factors: A comprehensive network approach. *Journal of affective disorders*, 355, 12–21. <https://doi.org/10.1016/j.jad.2024.03.119>

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34. Wüthrich, F., Lefebvre, S., Mittal, V. A., Shankman, S. A., Alexander, N., **Brosch, K.**, Flinkenflügel, K., Goltermann, J., Grotegerd, D., Hahn, T., Jamalabadi, H., Jansen, A., Leehr, E. J., Meinert, S., Nenadić, I., Nitsch, R., Stein, F., Straube, B., Teutenberg, L., Thiel, K., ... Walther, S. (2023). The neural signature of psychomotor disturbance in depression. **Molecular Psychiatry**, 10.1038/s41380-023-02327-1. Advance online publication. <https://doi.org/10.1038/s41380-023-02327-1>
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