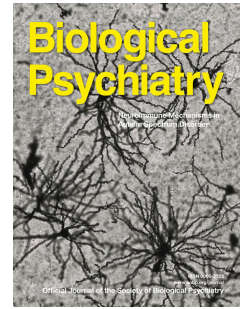


# Accepted Manuscript



Does childhood trauma moderate polygenic risk for depression? A meta-analysis of 5,765 subjects from the Psychiatric Genomics Consortium

Wouter J. Peyrot, MD, PhD, Sandra Van der Auwera, Yuri Milaneschi, PhD, Conor V. Dolan, PhD, Pamela AF. Madden, PhD, Patrick F. Sullivan, PhD, Jana Strohmaier, Stephan Ripke, PhD, Marcella Rietschel, PhD, Michel G. Nivard, PhD, Niamh Mullins, MSc, Grant W. Montgomery, PhD, Anjali K. Henders, PhD, Andrew C. Heat, PhD, Helen L. Fisher, PhD, Erin C. Dunn, ScD, Enda M. Byrne, PhD, Tracy A. Air, BA, Bernhard T. Baune, PhD, Gerome Breen, PhD, Douglas F. Levinson, PhD, Cathryn M. Lewis, PhD, Nick G. Martin, PhD, Elliot N. Nelson, MD, Dorret I. Boomsma, PhD, Hans J. Grabe, MD, Naomi R. Wray, PhD, Brenda WJH. Penninx, PhD

PII: S0006-3223(17)31993-5

DOI: [10.1016/j.biopsych.2017.09.009](https://doi.org/10.1016/j.biopsych.2017.09.009)

Reference: BPS 13322

To appear in: *Biological Psychiatry*

Received Date: 21 May 2017

Revised Date: 1 September 2017

Accepted Date: 1 September 2017

Please cite this article as: Peyrot W.J, Van der Auwera S., Milaneschi Y., Dolan C.V, Madden P.A., Sullivan P.F, Strohmaier J., Ripke S., Rietschel M., Nivard M.G, Mullins N., Montgomery G.W, Henders A.K, Heat A.C, Fisher H.L, Dunn E.C, Byrne E.M, Air T.A, Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium, Baune B.T, Breen G., Levinson D.F, Lewis C.M, Martin N.G, Nelson E.N, Boomsma D.I, Grabe H.J, Wray N.R & Penninx B.W., Does childhood trauma moderate polygenic risk for depression? A meta-analysis of 5,765 subjects from the Psychiatric Genomics Consortium, *Biological Psychiatry* (2017), doi: 10.1016/j.biopsych.2017.09.009.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

1 **Does childhood trauma moderate polygenic risk for depression? A meta-analysis of 5,765 subjects**  
2 **from the Psychiatric Genomics Consortium**

3 Running title: Childhood trauma and polygenic risk for depression

4

5 Wouter J Peyrot, MD, PhD<sup>1</sup>, Sandra Van der Auwera<sup>2</sup>, Yuri Milaneschi, PhD<sup>1</sup>, Conor V Dolan, PhD<sup>3</sup>, Pamela AF Madden,  
6 PhD<sup>4</sup>, Patrick F Sullivan, PhD<sup>5</sup>, Jana Strohmaier J<sup>6</sup>, Stephan Ripke, PhD<sup>7,8</sup>, Marcella Rietschel, PhD<sup>6</sup>, Michel G Nivard, PhD<sup>3</sup>,  
7 Niamh Mullins, MSc<sup>9</sup>, Grant W Montgomery, PhD<sup>10,11</sup>, Anjali K Henders, PhD<sup>10,11</sup>, Andrew C Heat, PhD<sup>4</sup>, Helen L Fisher,  
8 PhD<sup>9</sup>, Erin C Dunn, ScD<sup>11</sup>, Enda M Byrne, PhD<sup>10,11</sup>, Tracy A Air, BA<sup>13</sup>, Major Depressive Disorder Working Group of the  
9 Psychiatric Genomics Consortium, Bernhard T Baune, PhD<sup>13</sup>, Gerome Breen, PhD<sup>9</sup>, Douglas F Levinson, PhD<sup>14</sup>, Cathryn M  
10 Lewis, PhD<sup>9</sup>, Nick G Martin, PhD<sup>15</sup>, Elliot N Nelson, MD<sup>4</sup>, Dorret I Boomsma, PhD<sup>3</sup>, Hans J Grabe, MD<sup>2\*</sup>, Naomi R Wray,  
11 PhD<sup>10,11\*</sup>, Brenda WJH Penninx, PhD<sup>1\*</sup>

12

13 <sup>1</sup>Department of Psychiatry, VU University Medical Center & GGZ inGeest, Amsterdam, the Netherlands

14 <sup>2</sup>Department of Psychiatry and Psychotherapy, University Medicine Greifswald, Greifswald, Germany

15 <sup>3</sup>Department of Biological Psychology, Vrije Universiteit, Amsterdam, the Netherlands

16 <sup>4</sup>Department of Psychiatry, Washington University Medical School, St Louis, US

17 <sup>5</sup>Psychiatry, University of North Carolina at Chapel Hill, Chapel Hill, US

18 <sup>6</sup>Department of Genetic Epidemiology in Psychiatry, Central Institute of Mental Health, Medical Faculty Mannheim,  
19 University of Heidelberg, Germany

20 <sup>7</sup>Analytic and Translational Genetics Unit, Massachusetts General Hospital, Boston MA 02114, USA

21 <sup>8</sup>Dept. of Psychiatry and Psychotherapy, Charité - Universitätsmedizin, Berlin 10117, Germany

22 <sup>9</sup>Institute of Psychiatry, Psychology and Neuroscience, King's College London, UK

23 <sup>10</sup>Queensland Brain Institute, University of Queensland, Brisbane, Australia

24 <sup>11</sup>Institute for Molecular Bioscience, University of Queensland, Brisbane, Australia

25 <sup>12</sup>Department of Psychiatry, Harvard Medical School, Boston, Massachusetts

26 <sup>13</sup>Discipline of Psychiatry, University of Adelaide, Adelaide, Australia

27 <sup>14</sup>Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA, USA

28 <sup>15</sup>QIMR Berghofer Medical Research Institute, Brisbane, Queensland, Australia

29 \*authors contributed equally

30

31 **Corresponding Author**

32 Wouter J. Peyrot, MD

33 Department of Psychiatry, VU University Medical Center & GGZ inGeest, Amsterdam

34 AJ Ernststraat 1187, 1081 HL Amsterdam, The Netherlands

35 e-mail: peyrot.w@gmail.com

36

37 **Key words:** Depression, polygenic risk, childhood trauma, interaction, meta-analysis, genetics

38 **Word count abstract:** 249

39 **Word count main text:** 4,000

40 **Number of Tables:** 3

41 **Number of Figures:** 1

42 **Supplemental Materials:** yes

43

Download English Version:

<https://daneshyari.com/en/article/8813909>

Download Persian Version:

<https://daneshyari.com/article/8813909>

[Daneshyari.com](https://daneshyari.com)