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Juvenile social defeat stress exposure persistently impairs social behaviors and neurogenesis

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## Juvenile social defeat stress exposure persistently impairs social behaviors 1 and $\mathbf{2}$ neurogenesis 3 Akihiro Mouri<sup>1, 4, 5</sup>, Mayu Ukai<sup>1</sup>, Mizuki Uchida<sup>1</sup>, Sho Hasegawa<sup>1</sup>, Masayuki Taniguchi<sup>1</sup>, 4 Takahiro Ito<sup>1</sup>, Hirotake Hida<sup>1, 2</sup>, Akira Yoshimi<sup>1, 3</sup>, Kiyofumi Yamada<sup>2, 5</sup>, Shohko Kunimoto<sup>3</sup>, $\mathbf{5}$ Norio Ozaki<sup>3</sup>, Toshitaka Nabeshima<sup>4, 5</sup> and Yukihiro Noda<sup>1, 2, 3, 5</sup>\* 6 78 1. Division of Clinical Sciences and Neuropsychopharmacology, Faculty and Graduate School of Pharmacy, Meijo University, Nagoya, Japan 9 2. Department of Neuropsychopharmacology and Hospital Pharmacy, Graduate School of 10Medicine, Nagoya University, Nagoya, Japan 11 3. Department of Psychiatry, Graduate School of Medicine, Nagova University, Nagova, Japan 124. Advanced Diagnostic System Research Laboratory, Fujita Health University Graduate 13School of Health Sciences, Aichi, Japan 145. Japanese Drug Organization of Appropriate Use and Research, Nagoya, Japan 151617\*Corresponding author: Yukihiro Noda, Ph.D. Division of Clinical Sciences and Neuropsychopharmacology, Faculty and Graduate School of 18Pharmacy, Meijo University, 150 Yagotoyama, Tempaku-ku, Nagoya 468-8503, Japan 19Phone: +81-52-741-6021 Fax: +81-52-741-6023 20Email: ynoda@meijo-u.ac.jp 21Running title: Juvenile stress impairs sociality and neurogenesis 2223 $\mathbf{24}$ Word counts: Abstract: 244, Article body 6287 (Int: 496, Mat/Meth: 1745, Res: 2655, Dis: 1391) 25Fig: 6, Tab: 0, Supp inf: 6 26

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