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GXE INTERACTION AS A PROTECTIVE FACTOR: 5HTTR AND BAD ENVIRONMENT V. Carli^{1,2}, L. Mandelli³, L. Zaninotto³, V. Gatta⁴, L. Stuppia⁴, A. Serretti³, M. Sarchiapone²

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Early traumatic experiences have been consistently associated with a higher risk to develop psychopathological symptoms in adulthood. Resilience, a trait reflecting tolerance of negative affect, positive acceptance of change and an action-oriented ap- proach to problem solving, has been hypothesized to be a protective factor against stressors. Genetic aspects have been also hypothesized influencing resilience to stress and risk to develop psychopa- thological symptoms in response to both early and recent adverse events. In particular, a common po-lymorphism within the gene coding for serotonin transporter (5-HTTLPR s/l) has been consistently associated to the risk to develop depressive-anxious symptoms in response to stressful life events. In the present study we aimed to investigate the role of childhood traumas and 5-HTTLPR on measures of resilience and depression in a sample of individuals at a high risk for psychological distress. A large sample of male prisoners was investigated (n=1516). 5-HTTLPR genotype was available for 762 individuals. Overall, childhood traumas were significantly correlated to poor resilience and more severe depressive symptoms. 5-HTTLPR genotype did not influence resilience and depressive severity. However, a significant interaction was observed between 5-HTTLPR and childhood traumas on both resilience and depressive severity. Contrary to expectations, s/s individuals exposed to a high number of early traumas had a current higher resilience and less depressive symptoms than I-allele carriers. Present data did not confirm the 5-HTTLPR s-allele as the genetic risk variant for psychopathology in individuals exposed to stressors.