

**PUSTAKA**

- Alfimova, M. V., Golimbet, V., Lezheiko, T. & Korovaitseva, G., 2017, A Potential Role of the 5-HTTLPR Polymorphism in Self-Reported Executive Functioning, *Spanish Journal of Psychology*, 20.
- Butovskaya, M.L., Butovskaya, P.R., Vasilyev, V.A., Sukhodolskaya, J.M., Fekhredtinova, D.I., Karelina, D. V., Fedenok, J.N., Mabulla, A.Z.P., Ryskov, A.P. & Lazebny, O.E., 2018, Serotonergic gene polymorphisms (5-HTTLPR, 5HTR1A, 5HTR2A), and population differences in aggression: Traditional (Hadza and Datoga) and industrial (Russians) populations compared, *Journal of Physiological Anthropology*, 37, 1.
- Çarkaxhiu Bulut, G., Rodopman Arman, A., Güney, İ. & Gültepe, P., 2017, Evaluation of 5-HTTLPR gene polymorphism and resilience components on the development of psychopathology in adolescent sexual abuse cases, *Noropsikiyatri Arsivi*, 54, 3, 234–238.
- Chang, H., Yan, Q., Tang, L., Huang, J., Ma, Y., Ye, X., Wu, C., Wu, L. & Yu, Y., 2018, Association of genetic variations in the serotonin and dopamine systems with aggressive behavior in the Chinese adolescent population: Single- and multiple-risk genetic variants, *Journal of Affective Disorders*, 225, 374–380.
- Cherepkova, E. V., Maksimov, V. V. & Aftanas, L.I., 2018, Polymorphism of serotonin transporter gene in male subjects with antisocial behavior and MMA fighters, *Translational Psychiatry*, 8, 1.
- Cividanes, G.C., Mello, A.F., Sallum, J.M., Fossaluza, V., De Medeiros, M., Maciel, M.R., Cavalcante-Nóbrega, L.P., Mari, J.J., Mello, M.F. & Valente, N.L., 2014, Lack of association between the 5-HTTLPR and positive screening for mental disorders among children exposed to urban violence and maltreatment, *Revista Brasileira de Psiquiatria*, 36, 4, 277–284.
- Cunha, O., Peixoto, M., Cruz, A.R. & Gonçalves, R.A., 2022, Buss-Perry Aggression Questionnaire: Factor Structure and Measurement Invariance among Portuguese Male Perpetrators of Intimate Partner Violence,
- Duke, A.A., Bègue, L., Bell, R. & Eisenlohr-Moul, T., 2013, Revisiting the serotonin-aggression relation in humans: A meta-analysis, *Psychological Bulletin*, 139, 5, 1148–1172.
- Fanelli, G. & Serretti, A., 2019, The influence of the serotonin transporter gene 5-HTTLPR polymorphism on suicidal behaviors: a meta-analysis, *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 88, 375–387.
- Gallagher, J.M. & Ashford, J.B., 2016, Buss–Perry Aggression Questionnaire: Testing Alternative Measurement Models With Assaultive Misdemeanor Offenders, *Criminal Justice and Behavior*, 43, 11, 1639–1652.
- Gelernter, J., 2014, SLC6A4 polymorphism, population genetics, and psychiatric traits, *Human Genetics*, 133, 4, 459–461.
- Hardoni, Y., Neherta, M. & Sarfika, R., 2019, Karakteristik Perilaku Agresif Remaja Pada Sekolah Menengah the Aggressive Behavior Characteristic of Adolescent At Vocational High School, , 7, 3, 257–266.
- Hastuti, L.W., 2018, Kontrol Diri dan Agresi : Tinjauan Meta-Analisis, *Buletin Psikologi*, 26, 1, 42–53.



- Karalis, D., 2019, Biology and Criminal Behavior: Neurotransmitters , Neurohormones and, , 60–66.
- Khaninah, A.N. & Widjanarko, M., 2016, *PERILAKU AGRESIF YANG DIALAMI KORBAN KEKERASAN DALAM PACARAN*,
- Kiranadi, B., 2010, 245054-cinta-dan-neurotransmitter-2800acaf.pdf, , 10.
- Komnas Perempuan, 2020, Catatan Tahunan Kekerasan terhadap Perempuan,
- Liao, D.L., Hong, C.J., Shih, H.L. & Tsai, S.J., 2004, Possible association between serotonin transporter promoter region polymorphism and extremely violent crime in Chinese males, *Neuropsychobiology*, 50, 4, 284–287.
- Lister Hill National Center for Biomedical Communications, 2020, *Genetics Home Reference Your Guide to Understanding Genetic Conditions*, <https://www.ncbi.nlm.nih.gov/books/NBK27911/>.
- Lucchinetti, E. & Zaugg, M., 2008, Limitations of Genetic Findings That Are Not in Hardy-Weinberg Equilibrium, *Anesthesiology*, 108, 338–339. <http://pubs.asahq.org/anesthesiology/article-pdf/108/2/338/366101/0000542-200802000-00036.pdf>.
- Marinho, F.V.C., Pinto, G.R., Oliveira, T., Gomes, A., Lima, V., Ferreira-Fernandes, H., Rocha, K., Magalhães, F., Velasques, B., Ribeiro, P., Cagy, M., Gupta, D., Bastos, V.H. & Teixeira, S., 2019, The SLC6A3 3'-UTR VNTR and intron 8 VNTR polymorphisms association in the time estimation, *Brain Structure and Function*, 224, 1, 253–262.
- Mosienko, V., Bert, B., Beis, D., Matthes, S., Fink, H., Bader, M. & Alenina, N., 2012, Exaggerated aggression and decreased anxiety in mice deficient in brain serotonin, *Translational Psychiatry*, 2.
- Mueller, D.J., Tiwari, A., Gandhi, R., Vishwavidyalaya, P. & Mamo, D.C., 2014, *The intersection of pharmacology, imaging, and genetics in the development of personalized medicine*, <https://www.researchgate.net/publication/41410525>.
- Narvaes, R. & de Almeida, R.M.M., 2014, Aggressive behavior and three neurotransmitters: Dopamine, GABA, and serotonin—a review of the last 10 years, *Psychology and Neuroscience*, 7, 4, 601–607.
- Noskova, T., Pivac, N., Nedic, G., Kazantseva, A., Gaysina, D., Faskhutdinova, G., Gareeva, A., Khalilova, Z., Khusnutdinova, E., Kovacic, D.K., Kovacic, Z., Jokic, M. & Seler, D.M., 2008, Ethnic differences in the serotonin transporter polymorphism (5-HTTLPR) in several European populations, *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 32, 7, 1735–1739.
- Novia, J. & Maria, A., 2013, *PERAN ATYPICAL ANTISSYCHOTIC DALAM MENURUNKAN PERILAKU AGRESIF PADA PASIEN SKIZOFRENIA*,
- Odgerel, Z., Talati, A., Hamilton, S.P., Levinson, D.F. & Weissman, M.M., 2013, Genotyping serotonin transporter polymorphisms 5-HTTLPR and rs25531 in European- and African-American subjects from the National Institute of Mental Health's Collaborative Center for Genomic Studies., *Translational psychiatry*, 3.
- Odintsova, V. V., Roetman, P.J., Ip, H.F., Pool, R., Van Der Laan, C.M., Tona, K.D., Vermeiren, R.R.J.M. & Boomsma, D.I., 2020, Genomics of human aggression: Current state of genome-wide studies and an automated systematic review tool, *Psychiatric Genetics*, 170–190.



- Passamonti, L., Crockett, M.J., Apergis-Schoute, A.M., Clark, L., Rowe, J.B., Calder, A.J. & Robbins, T.W., 2012, Effects of acute tryptophan depletion on prefrontal-amygadala connectivity while viewing facial signals of aggression, *Biological Psychiatry*, 71, 1, 36–43.
- Peterson, S.A. & Somit, A., 2011, *Biology and Politics: The Cutting Edge*, edisi ke 1st, Emerald Group Publishing Limited, Howard House, Wagon Lane, Bingley BD16 1WA, UK.
- Rahim, R.S., Homdidjah, O.S. & Heryati, E., 2016, Pengaruh Penggunaan Aromaterapi Cendana dengan Teknik Vaporizer terhadap Perilaku Agresif Anak Tunagrahita, *Jassi Anakku*, 13, 1, 1–7.
- Rahmadhayanti, E., Hayati, L. & Saleh, Mgs., 2014, Hubungan Polimorfisme Gen Reseptor Angiotensin II Tipe 1 1166 A/C Dengan Kejadian Preeklampsia, *Majalah Kedokteran Sriwijaya*, 46, 1, 52–58.
- Reddy, K.J., Menon, K.R. & Hunjan, U.G., 2018, Reddy et al.-Neurobiological Aspects of Violent and Criminal Behavior Under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International (CC BY-NC-SA 4.0) Neurobiological Aspects of Violent and Criminal Behaviour: Deficits in Frontal Lobe Function and Neurotransmitters 1, *Criminal Justice Sciences (IJCJS)-Official Journal of the South Asian Society of Criminology and Victimology*, 13, 1, 44–54.
- Reif, A., Rösler, M., Freitag, C.M., Schneider, M., Eujen, A., Kissling, C., Wenzler, D., Jacob, C.P., Retz-Junginger, P., Thome, J., Lesch, K.P. & Retz, W., 2007, Nature and nurture predispose to violent behavior: Serotonergic genes and adverse childhood environment, *Neuropsychopharmacology*, 32, 11, 2375–2383.
- Retz, W., Retz-Junginger, P., Supprian, T., Thome, J. & Rösler, M., 2004, Association of serotonin transporter promoter gene polymorphism with violence: Relation with personality disorders, impulsivity, and childhood ADHD psychopathology, *Behavioral Sciences and the Law*, 22, 3, 415–425.
- Reyna, C., Lello, M.G., Sanchez, A. & Brussino, S., 2011, *The Buss-Perry Aggression Questionnaire: Construct validity and gender invariance among Argentinean adolescents*,
- Schlüter, T., Winz, O., Henkel, K., Prinz, S., Rademacher, L., Schmaljohann, J., Dautzenberg, K., Cumming, P., Kumakura, Y., Rex, S., Mottaghay, F.M., Gründer, G. & Vernaleken, I., 2013, The impact of dopamine on aggression: An [18F]-FDOPA PET study in healthy males, *Journal of Neuroscience*, 33, 43, 16889–16896.
- Seo, D., Patrick, C.J. & Kennealy, P.J., 2008, Role of serotonin and dopamine system interactions in the neurobiology of impulsive aggression and its comorbidity with other clinical disorders, *Aggression and Violent Behavior*, 13, 5, 383–395.
- Soares, A., Alvarez, M., Wasterlain, S.N. & Manco, L., 2013, *A study of 5-HTT (SLC6A4) gene polymorphisms and antisocial behaviour in a population sample of young Portuguese adults Results and Discussion*,
- Suchting, R., Gowin, J.L., Green, C.E., Walss-Bass, C. & Lane, S.D., 2018, Genetic and psychosocial predictors of aggression: Variable selection and model building with component-wise gradient boosting, *Frontiers in Behavioral Neuroscience*, 12.



- Susantyo, B., 2011, *MEMAHAMI PERILAKU AGRESIF: Sebuah Tinjauan Konseptual*,
- Toshchakova, V.A., Bakhtiari, Y., Kulikov, A. V., Gusev, S.I., Trofimova, M. V., Fedorenko, O.Y., Mikhailitskaya, E. V., Popova, N.K., Bokhan, N.A., Hovens, J.E., Loonen, A.J.M., Wilffert, B. & Ivanova, S.A., 2018, Association of Polymorphisms of Serotonin Transporter (5HTTLPR) and 5-HT2C Receptor Genes with Criminal Behavior in Russian Criminal Offenders, *Neuropsychobiology*, 75, 4, 200–210.
- Valdivia-Peralta, M., Fonseca-Pedrero, E., González-Bravo, L. & Lemos-Giráldez, S., 2014, Propiedades psicométricas de la Escala de Agresividad AQ en estudiantes chilenos, *Psicothema*, 26, 1, 39–46.
- Vaske, J., Newsome, J., Makarius, M., Wright, J.P., Boutwell, B.B. & Beaver, K.M., 2009, Interaction of 5HTTLPR and marijuana use on property offending, *Biodemography and Social Biology*, 55, 1, 93–102.
- Vaughn, M.G., Beaver, K.M. & DeLisi, M., 2009, A general biosocial paradigm of antisocial behavior: A preliminary test in a sample of adolescents, *Youth Violence and Juvenile Justice*, 7, 4, 279–298.
- Veroude, K., Zhang-James, Y., Fernández-Castillo, N., Bakker, M.J., Cormand, B. & Faraone, S. V., 2016, Genetics of aggressive behavior: An overview, *American Journal of Medical Genetics, Part B: Neuropsychiatric Genetics*, 171, 1, 3–43.
- Waltes, R., Chiocchetti, A.G. & Freitag, C.M., 2016, The neurobiological basis of human aggression: A review on genetic and epigenetic mechanisms, *American Journal of Medical Genetics, Part B: Neuropsychiatric Genetics*, 171, 5, 650–675.
- Wang, X., Pipes, L., Trut, L.N., Herbeck, Y., Vladimirova, A. V., Gulevich, R.G., Kharlamova, A. V., Johnson, J.L., Acland, G.M., Kukekova, A. V. & Clark, A.G., 2018, Genomic responses to selection for tame/aggressive behaviors in the silver fox (*Vulpes vulpes*), *Proceedings of the National Academy of Sciences of the United States of America*, 115, 41, 10398–10403.
- Wendland, J.R., Kruse, M.R., Cromer, K.C. & Murphy, D.L., 2007, A large case-control study of common functional SLC6A4 and BDNF variants in obsessive-compulsive disorder, *Neuropsychopharmacology*, 32, 12, 2543–2551.
- Wray, N.R., James, M.R., Gordon, S.D., Dumenil, T., Ryan, L., Coventry, W.L., Statham, D.J., Pergadia, M.L., Madden, P.A.F., Heath, A.C., Montgomery, G.W. & Martin, N.G., 2009, Accurate, Large-Scale Genotyping of 5HTTLPR and Flanking Single Nucleotide Polymorphisms in an Association Study of Depression, Anxiety, and Personality Measures, *Biological Psychiatry*, 66, 5, 468–476.
- Xiang, C., Liu, S., Fan, Y., Wang, X., Jia, Y., Li, L., Cong, S. & Han, F., 2019a, Single nucleotide polymorphisms, variable number tandem repeats and allele influence on serotonergic enzyme modulators for aggressive and suicidal behaviors: A review, *Pharmacology Biochemistry and Behavior*, 180, 74–82.
- Xiang, C., Liu, S., Fan, Y., Wang, X., Jia, Y., Li, L., Cong, S. & Han, F., 2019b, Single nucleotide polymorphisms, variable number tandem repeats and allele influence on serotonergic enzyme modulators for aggressive and suicidal



- behaviors: A review, *Pharmacology Biochemistry and Behavior*, 180, September 2018, 74–82. <https://doi.org/10.1016/j.pbb.2019.03.008>.
- Yang, Yafang, Wang, C., Li, X., Yu, R., Zhang, M., Xue, M., Guo, W., He, L., Gao, X. & Gong, P., 2019, The 5-HTTLPR polymorphism impacts moral permissibility of impersonal harmful behaviors, *Social Cognitive and Affective Neuroscience*, 14, 8, 911–918.
- Yang, Yang, Peng, X., Ying, P., Tian, J., Li, J., Ke, J., Zhu, Y., Gong, Y., Zou, D., Yang, N., Wang, X., Mei, S., Zhong, R., Gong, J., Chang, J. & Miao, X., 2019, AWESOME: A database of SNPs that affect protein post-translational modifications, *Nucleic Acids Research*, 47, D1, D874–D880.
- Zhang, X., Wang, L., Huang, F., Li, J., Xiong, L., Xue, H. & Zhang, Y., 2015, Evaluation of the promoter region polymorphism (5-HTTLPR) in the serotonin transporter gene in females with postpartum depression, *Experimental and Therapeutic Medicine*, 9, 1, 245–249.
- Zhang, Y., Min, Q. Sen, Yi, J.Y., Wang, X., Chai, Q.L. & Yao, S.Q., 2017a, Gene-gene-environment interactions of serotonin transporter, monoamine oxidase a and childhood maltreatment predict aggressive behavior in chinese adolescents, *Frontiers in Behavioral Neuroscience*, 11.
- Zhang, Y., Min, Q. Sen, Yi, J.Y., Wang, X., Chai, Q.L. & Yao, S.Q., 2017b, Gene-gene-environment interactions of serotonin transporter, monoamine oxidase a and childhood maltreatment predict aggressive behavior in chinese adolescents, *Frontiers in Behavioral Neuroscience*, 11, February, 1–10.