

JOURNAL PUBLICATIONS

KAROLEWICZ B, MACIAG D, O'DWYER G, STOCKMEIER CA, **RAJKOWSKA G**. Reduced level of glutamic acid decarboxylase-67 kDa in the prefrontal cortex in major depression. *Int J Neuropsychopharmacol* 2009. doi:10.1017/S1461145709990587 (**NIHMS140135**).

SANCHES M, CAETANO S, NICOLETTI M, MONKUL ES, CHEN HH, HATCH IP, YEH P-H, MULLIS RL, KESHAVAN MS, **RAJKOWSKA G**, SOARES JC. An MRI-based approach for the measurement of the dorsolateral prefrontal cortex in humans. *Psychiatry Research: Neuroimaging* 2009;173(2):150-154 (**NIHMS134450**).

VAN OTTERLOO E, O'DWYER G, STOCKMEIER CA, STEFFENS DC, KRISHNAN KRR, **RAJKOWSKA G**. Reductions in neuronal density in elderly depressed are region specific. *Int J Geriatr Psychiatry* 2009 Aug;24(8):856-64 (**NIHMS134449**). [PubMed Link](#)

SZEWCZYK B, ALBERT PR, BURNS AM, CZESAK M, OVERHOLSER JC, JURJUS GJ, MELTZER HY, KONICK LC, DIETER L, HERBST N, MAY W, **RAJKOWSKA G**, STOCKMEIER CA, AUSTIN MC. Gender-specific decrease in NUDR and 5-HT1A receptor proteins in the prefrontal cortex of subjects with major depressive disorder. *Int J Neuropsychopharmacol* 2009 Mar;12(2):155-68 (**PMC2645471**). [PubMed Link](#)

STOCKMEIER CA, HOWELY E, SHI X, TROJECKA A, CLARKE G, KONICK L, OVERHOLSER JC, JURJUS G, MELTZER HY, FIREDMAN L, **RAJKOWSKA G**. Antagonist but not agonist labeling of serotonin-1A receptors is decreased in major depressive disorder. *J Psychiatr Res* 2009 Jul;43(10):887-94. Epub 2009 Feb 12 (**NIHMS112967**).
[PubMed Link](#)

KANG HJ, ADAMS DH, SIMEN A, SIMEN BB, **RAJKOWSKA G**, STOCKMEIER CA, OVERHOLSER JC, MELTZER HY, JURJUS G, KONICK L, NEWTON SS, DUMAN RS. Gene expression profiling in postmortem prefrontal cortex of major depressive disorder. *J Neuroscience* 2007;27(48):13329-40 (**NIHMS139074**).
[PubMed Link](#)

RAJKOWSKA G, ODWYER G, TELEKI Z, STOCKMEIER CA, MIGUEL-HIDALGO JJ. GABAergic neurons immunoreactive for calcium binding proteins are reduced in the prefrontal cortex in major depression. *Neuropsychopharmacology* 2007;32:471-482. [PubMed Link](#)

RAJKOWSKA G, MIGUEL-HIDALGO JJ. Gliogenesis and glial pathology in depression. *CNS Neurol Disord Drug Targets* 2007;6(3):219-233. [PubMed Link](#)

MIGUEL-HIDALGO JJ, NITHUAIRISG S, STOCKMEIER CA, **RAJKOWSKA G**. Distribution of ICAM-1 immunoreactivity during aging in the human orbitofrontal cortex. *Brain Behav Immun* 2006;21:100-111. [PubMed Link](#)

COLOMBO JA, REISIN HD, MIGUEL-HIDALGO JJ, **RAJKOWSKA G**. Cerebral cortex astroglia and the brain of a genius: a propos of A. Einstein's. *Brain Res* 2006;1100(1):93-103.

MIGUEL-HIDALGO JJ, OVERHOLSER JC, MELTZER HY, STOCKMEIER CA, **RAJKOWSKA G**. Reduced glial and neuronal packing density in the orbitofrontal cortex in alcohol dependence and its relationship to suicide and duration of alcohol dependence. *Alcohol Clin Exp Res* 2006;30(11):1845-55. [PubMed Link](#)

JOURNAL PUBLICATIONS (continued)

UYLINGS HBM, **RAJKOWSKA G**, SANZ ARIGITA E, AMUNTS K, ZILLES K. Consequences of large interindividual variability for human brain atlases: converging macroscopical imaging and microscopical neuroanatomy. *Anat Embryology (Berl)* 2005;210:423-431. [PubMed Link](#)

RAJKOWSKA G, MIGUEL-HIDALGO JJ, DUBEY P, STOCKMEIER CA, KRISHNAN RR. Prominent reduction in pyramidal neurons density in the orbitofrontal cortex of elderly depressed patients. *Biol Psychiatry* 2005;58:297-306. [PubMed Link](#)

MIGUEL-HIDALGO JJ, DUBEY P, SHAO Q, STOCKMEIER CA, **RAJKOWSKA G**. Unchanged packing density but altered size of neurofilament immunoreactive neurons in the prefrontal cortex in schizophrenia and major depression. *Schizophrenia Res* 2005;76:159-71. [PubMed Link](#)

SI X, MIGUEL-HIDALGO JJ, O'DWYER G, STOCKMEIER CA, **RAJKOWSKA G**. Age-dependent reductions in the level of glial fibrillary acidic protein in the prefrontal cortex in major depression. *Neuropsychopharmacology* 2004;29:2088-2096. [PubMed Link](#)

STOCKMEIER CA, MAHAJAN GJ, KONICK LC, OVERHOLSER JC, JURJUS GJ, MELTZER HY, UYLINGS HBM, FRIEDMAN L, **RAJKOWSKA G**. Cellular changes in the postmortem hippocampus in major depression. *Biol Psychiatry* 2004;56:640-650. [PubMed Link](#)

PUBLISHED ABSTRACTS

STOCKMEIER CA, MAHAJAN G, KOOIMAN H, AUSTIN MC, SZEWCZYK B, IYO AH, MAY W, **RAJKOWSKA G**. Cell loss and impaired neuroplasticity in prefrontal cortex and hippocampus during major depressive disorder. *Biological Psychiatry* 2009;65:173S.

MACIAG D, HUGHES J, O'DWYER G, PRIDE Y, STOCKMEIER C, **RAJKOWSKA G**. Morphometric analysis of calbindin-IR GABA neurons in occipital cortex in major depression. *Biological Psychiatry* 2009;65:238S.

MIGUEL-HIDALGO JJ, WALTZER R, WANZO V, LO V, **RAJKOWSKA G**, STOCKMEIER CA. Alterations of prefrontal glutamatergic and cytoskeletal components of astrocytes in major depression and alcoholism. *Biological Psychiatry* 2009;65:177S.

KAROLEWICZ B, FEYISSA AM, CHANDRAN A, LEGUTKO B, ORDWAY GA, **RAJKOWSKA G**, STOCKMEIER CA. Glutamate receptors expression in postmortem brain from depressed subjects. *Biological Psychiatry* 2009;65:177S.

SALIMI K, HAMER RM, VADLAMUDI S., GLANTZ LA, **RAJKOWSKA G**, STOCKMEIER CA, GILMORE JH, JARSKOG LF. Brain-derived neurotrophic factor (BDNF) splice variant and endogenous antisense transcript expression in prefrontal cortex in schizophrenia. *Schizophrenia Bulletin* 2009;35(Suppl 1):236.

MIGUEL-HIDALGO JJ, WALTZER R, WANZO V, LO V, **RAJKOWSKA G**, STOCKMEIER CA. Differential prefrontal alterations of glial glutamatergic components in depression, alcoholism and comorbid depression/alcoholism. *Biol Psychiatry* 2008;63(7S):60S.

PUBLISHED ABSTRACTS (continued)

MACIAG D, O'DWYER G, RODRIGUEZ Y, OVERHOLSER J, JURJUS G, DIETER L, HERBST N, STOCKMEIER CA, **RAJKOWSKA G**. Glutamic acid decarboxylase (GAD) in the occipital cortex in depression. *Biol Psychiatry* 2008;63(7S):208S.

WALTZER R, STOCKMEIER CA, **RAJKOWSKA G**, MIGUEL-HIDALGO JJ. Distribution and levels of GFAP in the orbitofrontal cortex in alcoholic and depressed subjects. *J Mississippi Acad Sciences* 2008;53:78.

MIGUEL-HIDALGO JJ, WALTZER R, WANZO V, LO V, **RAJKOWSKA G**, STOCKMEIER CA. Alcoholism and major depression are differentiated by levels of glial glutamatergic markers and glial fibrillary acidic protein in the orbitofrontal cortex: a postmortem study. Program No. 843.4. 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience.

KANG H, **RAJKOWSKA G**, STOCKMEIER C, OVERHOLSER J, MELTZER H, NEWTON S, DUMAN R. Impaired synaptic function in postmortem prefrontal cortex of depressed subjects. Program No. 843.17. 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience.

COBB JA, O'NEILL K, MAHAJAN G, LAWRENCE TJ, CLARK C, OVERHOLSER J, JURJUS G, DIETER L, NELSON S, MIGUEL-HIDALGO J, **RAJKOWSKA G**, STOCKMEIER CA. Age influences GFAP-ir astrocyte density in CA1 but not CA2/3 in major depression. Conference on Glia Biology in Medicine, November 30 - December 2, 2008, University of Alabama, Birmingham. Neuroscience.

RAJKOWSKA G, MIGUEL-HIDALGO JJ, O'DWYER G, TELEKI Z, SRIVASTAVA K, STOCKMEIER CA, KAROLEWICZ B. GABAergic neurons immunoreactive for calcium binding proteins are reduced in the prefrontal cortex in major depression. *Biol Psychiatry* 2007;61:231S.

MIGUEL-HIDALGO JJ, LO L, WANZO V, OVERHOLSER JC, MELTZER HY, STOCKMEIER CA, **RAJKOWSKA G**. Glutamate transporter EAAT2 immunoreactivity is reduced in the orbitofrontal cortex in alcoholism and depression. 2007 Society for Neuroscience Abstract Viewer/Itinerary Planner, Program No. 609.3.

KAROLEWICZ B, **RAJKOWSKA G**, OVERHOLSER J, JURJUS G, DIETER L, HERBST N, STOCKMEIER CA, MACIAG D. Vesicular glutamate transporter in the prefrontal cortex in suicide victims. 2007 Society for Neuroscience Abstract Viewer/Itinerary Planner, Program No. 707.2.

MACIAG D, KAROLEWICZ B, O'DWYER, SRIVASTAVA K, OVERHOLSER J, JURJUS G, DIETER L, HERBST N, STOCKMEIER CA, **RAJKOWSKA G**. Decreased level of glutamic acid decarboxylase 67 kDa in the prefrontal cortex in major depression. 2007 Society for Neuroscience Abstract Viewer/Itinerary Planner, Presentation No. 707.1.

KAROLEWICZ B, MACIAG D, O'DWYER G, SRIVASTAVA K, OVERHOLSER J, JURJUS G, DIETER L, HERBST N, STOCKMEIER CA, **RAJKOWSKA G**. Reduction in GAD 67 but not GAD 65 in the postmortem prefrontal cortex in major depression. The American College of Neuropsychopharmacology, 46th Annual Meeting, December 9-13, 2007, Boca Raton, FL.

AUSTIN MC, SZEWCZYK B, HARRIS T, ALBERT PR, CZESAK M, KONICK LC, DIETER L, HERBST N, OVERHOLSER JC, JURJUS GJ, **RAJKOWSKA G**, STOCKMEIER CA. Decreased protein expression of the 5-HT 1a receptors in the prefrontal cortex of females with major depressive disorder. 2007 Society for Neuroscience Abstract Viewer/Itinerary Planner, Program No. 707.9.

PUBLISHED ABSTRACTS (continued)

KANG H, **RAJKOWSKA G**, STOCKMEIER CA, NEWTON S, DUMAN R. Altered expression of synapsin 1 in postmortem prefrontal cortex of depressed subjects. 2007 Society for Neuroscience Abstract Viewer/Itinerary Planner, Program No. 383.15.

RAJKOWSKA G, SPAIN A, O'DWYER G, MALYKHIN N, COUPLAND N, STOCKMEIER CA, NORQUIST G. Postmortem analysis of oligodendroglia in similar part of medial prefrontal white matter identified by DTI in living depressed patients. The American College of Neuropsychopharmacology, 46th Annual Meeting, December 9-13, 2007, Boca Raton, FL .

COBB J, MAHAJAN G, DIETER L, HERBST N, OVERHOLSER JC, JURJUS GJ, **RAJKOWSKA G**, STOCKMEIER CA. Granule cell number in dentate gyrus in major depressive disorder (MDD). 2007 Society for Neuroscience Abstract Viewer/Itinerary Planner, Program No. 707.7.

MACIAG D, KAROLEWICZ B, O'DWYER, SRIVASTAVA K, OVERHOLSER J, JURJUS G, DIETER L, HERBST N, STOCKMEIER CA, **RAJKOWSKA G**. Decreased level of glutamic acid decarboxylase 67 kDa in the prefrontal cortex in major depression. 2007 Society for Neuroscience Abstract Viewer/Itinerary Planner, Presentation No. 707.1.

COBB JA, MAHAJAN G, DIETER L, HERBST N, MATZINGER M, OVERHOLSER JC, JURJUS GJ, **RAJKOWSKA G**, STOCKMEIER CA. Stereological assessment of total cell number in CA1 of the hippocampus in major depressive disorder (MDD). *Biol Psychiatry* 2006;59:(Suppl)137S(Abstract #443).

MAHAJAN G, KOOIMAN H, LAWRENCE TJ, COBB JA, DIETER L, HERBST N, OVERHOLSER JC, JURJUS GJ, AUSTIN MC, **RAJKOWSKA G**, STOCKMEIER CA. Decrease in serotonin transporter (SERT)-immunoreactive fibers in the hippocampus in major depressive disorder (MDD). *Biol Psychiatry* 2006;59:(Suppl)137S(Abstract #444).

STOCKMEIER CA, COBB JA, LAWRENCE TJ, MAHAJAN G, DIETER L, HERBST N, MATZINGER M, OVERHOLSER JC, JURJUS GJ, MIGUEL-HIDALGO JJ, **RAJKOWSKA G**. Glial fibrillary acidic protein (GFAP) in the hippocampus in major depressive disorder (MDD). *Biol Psychiatry* 2006;59(Suppl):52S.

SZEWCZYK B, IYO AH, HARRIS T, KONICK LC, DIETER L, HERBST N, CZESAK M, ALBERT PR, OVERHOLSER JC, JURJUS GJ, **RAJKOWSKA G**, STOCKMEIER C, AUSTIN MC. Decreased level of NUDR/Deaf-1 in the prefrontal cortex of female subjects with major depression. *Biol Psychiatry* 2006;59(Suppl):222S.

MIGUEL-HIDALGO JJ, OVERHOLSER JC, MELTZER HY, STOCKMEIER CA, **RAJKOWSKA G**. Cell pathology in the orbitofrontal cortex in alcohol dependence and its relationship to suicide and duration of alcohol dependence. Society for Neuroscience 2006 Abstract Viewer/Itinerary Planner. Program No. 192.10

RAJKOWSKA G. Age-dependent pathology of neurons and glia in depression. *Biol Psychiatry* 2006;59(8S):195S.

RAJKOWSKA G. Age-dependent cellular changes in the prefrontal cortex in postmortem tissue from depressed subjects. The American College of Neuropsychopharmacology Annual Meeting, December 3-7, 2006, Hollywood, FL.

COBB JA, MAHAJAN G, LAWRENCE TJ, MIGUEL-HIDALGO JJ, DIETER L, HERBST N, MATZINGER M, OVERHOLSER JC, JURJUS GJ, **RAJKOWSKA G**, STOCKMEIER CA. Stereological estimation of cell number, cell size, and hippocampal volume in major depressive disorder (MDD). 2006 Society for Neuroscience Abstract Viewer/Itinerary Planner, Program No. 191.6.

PUBLISHED ABSTRACTS (continued)

RAJKOWSKA G. Morphometric studies of vascular and neuronal pathology in the orbitofrontal cortex in elderly depressed. *Biol Psychiatry* 2005;57(210S):758.

STOCKMEIER CA, SAENZ MD, SMITH E, MIGUEL-HIDALGO JJ, FRIEDMAN L, **RAJKOWSKA G.** Volume of the midbrain dorsal raphe nucleus in major depressive disorder (MDD). *Biol Psychiatry* 2005;57(183S):665.

RAJKOWSKA G. Astroglia in the dorsolateral prefrontal cortex in schizophrenia. *The World Journal of Biol Psychiatry* 2005;6(Suppl 1):74.

RAJKOWSKA G. Astroglia in the dorsolateral prefrontal cortex in schizophrenia. *The World J Biol Psychiatry* 2005;6 (Suppl 1):74.

VAN OTTERLOO ES, MIGUEL-HIDALGO JJ, STOCKMEIER CA, **RAJKOWSKA G.** Microglia immunoreactivity is unchanged in the white matter of orbitofrontal cortex in elderly depressed patients. 2005 Society for Neuroscience Abstract Viewer/Itinerary Planner, Program No. 107.4.

KANG HJ, ADAMS DH, LIN A, SIMEN BS, **RAJKOWSKA G,** STOCKMEIER C, OVERHOLSER J, MELTZER HY, JURJUS G, KONICK L, NEWTON SS, DUMAN RS. Gene expression profiling in postmortem prefrontal cortex of major depressive disorder. 2005 Society for Neuroscience Abstract Viewer/Itinerary Planner, Program No. 915.2.

MIGUEL-HIDALGO JJ, NITHUAIRISG S, SHAO Q, STOCKMEIER CA, **RAJKOWSKA G.** Normal aging and the distribution of the cell-adhesion protein ICAM-1 in the orbitofrontal cortex. *Biol Psychiatry* 2005;57:117S.

RAJKOWSKA G, DUBEY P, MIGUEL-HIDALGO JJ, STOCKMEIER CA, KRISHNAN, RR. Neuronal pathology in orbitofrontal cortex in elderly subjects with MDD is more severe than that in age-matched control subjects. *Biol Psychiatry* 2004;54:731.

ADAMS DH, NEWTON SS, **RAJKOWSKA G,** STOCKMEIER CA, OVERHOSLER J, MELTZER HY, ROTH BL, JURJUS G, KONICK L, LIN A, SIMEN BS, DUMAN RS. Altered gene expression in postmortem prefrontal cortex in depression. 2004 Society for Neuroscience Abstract Viewer/Itinerary Planner, Program No. 799.12.

O'DWYER G, DUBEY P, SHAO Q, STUCKEY J, NITHUAIRISG S, MIGUEL-HIDALGO JJ, STOCKMEIER CA, KRISHNAN RR, **RAJKOWSKA G.** Age-dependent cellular changes in the prefrontal cortex in postmortem tissue from depressed subjects. 2004 Society for Neuroscience Abstract Viewer/Itinerary Planner, Program No. 98.11.

NEWTON S, ADAMS DH, KANG HJ, SIMEN B, SIMEN A, **RAJKOWSKA G,** STOCKMEIER CA, OVERHOLSER J, MELTZER H, ROTH B, JURJUS G, KONICK L, LIN A, DUMAN R. Gene expression profiling in postmortem major depressive disorder. *Abstracts of the ACNP 43rd Annual Meeting* 2004:133V.

BOOK CHAPTERS

RAJKOWSKA G. (2005) Anatomical Pathology. In: D. Stein, A. Schatzberg and D. Kupfer (eds). *Textbook of Mood Disorders*. American Psychiatric Publishing, Inc., 179-195.