

VITA
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Education: Ph.D. University of Chicago, Chicago, IL, Ph.D., Behavioral Sciences, 1985
B.A., Tufts University, Medford, MA, Majors: Psychology, Biology, 1978

Positions:

University of Colorado - Boulder

2010 – present Executive Director, Intermountain Neuroimaging Consortium
2004 – 2016 Director, Institute of Cognitive Science
2000 – present Professor, Dept. of Psychology & Neuroscience

University of Illinois at Urbana-Champaign

1998 – 2000 Professor, Dept. of Psychology
1994 – 2000 Co-Chair, Biological Intelligence Major Research Theme, Beckman
Institute for Advanced Science and Technology
1991 – 1998 Associate Professor, Dept. of Psychology
1989 – 2000 Leader, Cognitive Neuroscience Group, Beckman Institute for Advanced
Science and Technology
1985 – 1991 Assistant Professor, Dept. of Psychology

Honors:

2013 – 2014 James Cattell Sabbatical Fellowship
2011 Faculty Research Award, Dept. of Psychology, University of Colorado
Boulder
2010 Faculty Service Award, Dept. of Psychology, University of Colorado
Boulder
2009 Fellow, Association for Psychological Science (for outstanding
achievement in Psychological Science)
2007 Fulbright Senior Scholar, (University of Verona, Italy)
2005 – 2006 Emerging Leaders Program, University of Colorado
2005 Justine & Yves Sergent Prize (to a leading female researcher in Cognitive
Neuroscience)
2002 – 2006 Member, MacArthur Foundation Network on Adolescent Development
and Juvenile Justice
1996 University Scholar, University of Illinois
1994 Arnold O. Beckman Research Award
1991 Chi Undergraduate Teaching Award, University of Illinois
1991 Participant, International School of Neuroscience, Padua, Italy

1989	Beckman Fellow, Center for Advanced Study, University of Illinois
1988	Participant, James S. McDonnell Summer Institute in Cognitive Neuroscience
1986	Arnold O. Beckman Research Award
1985	NIH Postdoctoral Fellowship (declined to take present position)
1978	B.A., <i>magna cum laude</i> , Tufts University
1976	New England Psychological Association Undergraduate Fellow
1976	Alpha Xi Delta Prize Scholarship, Tufts University

Positions in Professional Societies:

2019 – present	Governing Board, Cognitive Neuroscience Society
2010 – 2014	President, International Society for Behavioral Neuroscience

Editorial Positions:

2015 – 2020	Editor-in-Chief, <i>Cognitive, Affective, and Behavioral Neuroscience</i>
2008 – 2014	Section Editor, Executive Function & Cognitive Control, <i>Neuropsychologia</i>

Publications (complete list):

A. Books

- Banich, M.T.** & Compton, R.J. (2018) *Cognitive Neuroscience, 4th edition*. Cambridge, England: Cambridge University Press.
- Banich, M.T.** & Compton, R.J. (2011) *Cognitive Neuroscience, 3rd edition*. Belmont, Ca.: Wadsworth Press.
- Banich, M.T.** & Caccamise, D. (Eds.) (2011) *Generalization of Knowledge: Multidisciplinary Perspectives*. Philadelphia: Taylor & Francis.
- Banich, M.T.** (2004) *Cognitive Neuroscience and Neuropsychology, 2nd edition*. Boston: Houghton-Mifflin Company.
- Banich, M.T.** & Mack, M. (Eds.) (2003) *Mind, Brain, & Language: Multidisciplinary Perspectives* Mahwah, N.J.: Lawrence Erlbaum Associates.
- Banich, M.T.** (1997) *Neuropsychology: The neural bases of mental function*. Boston: Houghton-Mifflin Company.

B. Chapters

- Banich, M.T.** (2020). How can intrusive thinking be measured *in vivo* and studies in the context of brain mechanisms? In: *Intrusive Thinking across Neuropsychiatric Disorders: From Molecules to Free Will*. edited by P.W. Kalivas and M.P. Paulus. Strüngmann Forum Reports, vol. 30, J.R. Lupp, series editor. Cambridge, MA: MIT Press.
- Visser, R.M., Anderson, M.C., Aron, A., **Banich, M.T.**, Brady, K.T., Huys, Q.J.M., Monfils, H-M., Schiller, D., Schlagenhaut, F., Schooler, J.W. & Robbins, T.W. Neuropsychological mechanisms of intrusive thinking. In: *Intrusive Thinking across Neuropsychiatric Disorders: From Molecules to Free Will*. Edited by P.W. Kalivas and M.P. Paulus. Strüngmann Forum Reports, vol. 30, J.R. Lupp, series editor. Cambridge, MA: MIT Press.
- Banich, M.T.** (2008) Hemispheric specialization and cognition. In Squire, L. (Ed.s). *New Encyclopedia of Neuroscience*. Oxford: Elsevier.

- Banich, M.T.** (2004) Magnetic Resonance Imaging. In Craighead, W.E. & Nemeroff, C.B. (Eds.) *The concise Corsini encyclopedia of Psychology and Behavioral Science, 3rd Edition*, pp. 545-546, Hoboken, N.J.: John Wiley & Sons.
- Banich, M.T.** (2003) Interacting hemispheres: A means of modulating attention. Pp 267-270. In Iacoboni, M. & Zaidel, E. (Eds.) *The parallel brain: The cognitive neuroscience of the corpus callosum*. Cambridge, Ma.: The MIT Press.
- Banich, M.T.** (2003) The divided visual field technique in laterality and interhemispheric integration. In *Experimental Methods in Neuropsychology*. Hugdahl, K (Ed.). pp.47-64, New York: Kluwer Publishers.
- Banich, M.T.** (2003) Interaction between the hemispheres and its implications for the processing capacity of the brain. In *Brain Asymmetry, 2nd edition*, Davidson, R. and Hugdahl, K. (Eds.), pp. 261-302. Cambridge Ma: MIT Press.
- Banich, M.T., & Scaff, P.E.** (2003) The neurocognitive bases of developmental reading disorders. In *Mind, Brain, and Language: Multidisciplinary perspectives*. **Banich, M.T.** & Mack, M. (Eds.) pp. 283-306, Mahwah, N.J., Lawrence Erlbaum Associates.
- Banich, M.T.** (2002) Neuropsychology. In *Textbook of Biological Psychiatry*, D'haenen, H., den Boer, J.A., & Willner, P. (Eds.), pp. 139-153. London: John Wiley & Sons, Ltd.
- Banich, M.T., Milham, M.P., Jacobson, B.L., Webb, A., Wszalek, T., Cohen, N.J. & Kramer, A.F.** (2001) Attentional selection and the processing of task-irrelevant information: Insights from fMRI examinations of the Stroop task. In *Vision: from neurons to cognition, Progress in Brain Research, Volume 134*, Casanova, C. & M. Ptito (Eds.), pp. 459-470, Amsterdam: Elsevier Science.
- Kramer, A.F., Hahn, S., McAuley, E., Cohen, N.J., **Banich, M.T.**, Harrison, C., Chason, J., Boileau, R.A., Bardell, L., Colcombe, A. & Vakil, E. (2001). Exercise, aging and cognition: Healthy body, healthy mind? In W. Rogers & A.D. Fisk (Eds.), *Human Factors Interventions for the Health Care of Older Adults*. pp. 91-120. Mahwah, N.J.: Erlbaum Associates.
- Banich, M.T. & Nicholas, C.D.** (1998) Integration of reading processing between the hemispheres. In *Right hemisphere language comprehension: Perspectives from cognitive neuroscience*. Beeman, M., and Chiarello, C. (Eds.), pp. 51-77, Hillsdale, N.J.: Lawrence Erlbaum Associates.
- Banich, M.T.** (1995) Interhemispheric interaction: Mechanisms of unified processing. For *Hemispheric Communication: Mechanisms and Models*. Kitterle, F.L. (Ed.), pp. 271-300, Hillsdale, N.J.: Lawrence Erlbaum Associates.
- Banich, M.T.** (1995) Interhemispheric processing: Theoretical and empirical considerations. In *Brain Asymmetry*, Davidson, R. and Hugdahl, K. (Eds.), pp. 427-450, Cambridge Ma: MIT Press.
- Levine, S.C, **Banich, M.T.**, & Kim, H. (1987) Variations in arousal asymmetry: Implications for face processing. In *Duality and Unity of the Brain*, Ottoson, D. (Ed.) Wenner-Gren International Symposium Series, Vol. 47, pp. 207-222, London: The MacMillian Press, Ltd.

C. Articles, Reviews & Commentaries

- Menardi, A., Reineberg, A. E., Smith, L. L., Favaretto, C., Vallesi, A., **Banich, M. T.**, & Santarnecchi, E. (2022). Topographical functional correlates of interindividual differences in executive functions in young healthy twins. *Brain structure & function*, 227(1), 49–62. <https://doi.org/10.1007/s00429-021-02388-4>

- Reineberg, A. E., **Banich, M. T.**, Wager, T. D., & Friedman, N. P. (2021). Context-specific activations are a hallmark of the neural basis of individual differences in general executive function. *NeuroImage*, 118845. Advance online publication. <https://doi.org/10.1016/j.neuroimage.2021.118845>
- Smolker, H. R., Wang, K., Luciana, M., Bjork, J. M., Gonzalez, R., Barch, D. M., McClade, E. C., Kaiser, R. H., Friedman, N. P., Hewitt, J. K., & **Banich, M. T.** (2021). The Emotional Word-Emotional Face Stroop task in the ABCD study: Psychometric validation and associations with measures of cognition and psychopathology. *Developmental cognitive neuroscience*, 53, 101054. Advance online publication. <https://doi.org/10.1016/j.dcn.2021.101054>
- Matyi, M. A., Cioaba, S. M., **Banich, M. T.**, & Spielberg, J. M. (2021). Identifying brain regions supporting amygdalar functionality: Application of a novel graph theory technique. *NeuroImage*, 244, 118614. <https://doi.org/10.1016/j.neuroimage.2021.118614>
- Lisdahl, K. M., ... **Banich, M.T.**, ... ABCD Consortium (2021). Substance use patterns in 9-10 year olds: Baseline findings from the adolescent brain cognitive development (ABCD) study. *Drug and alcohol dependence*, 227, 108946. <https://doi.org/10.1016/j.drugalcdep.2021.108946>
- Friedman, N. P., **Banich, M. T.**, & Keller, M. C. (2021). Twin studies to GWAS: there and back again. *Trends in cognitive sciences*, 25(10), 855–869. <https://doi.org/10.1016/j.tics.2021.06.007>
- Chaarani, B., ... **Banich, M.T.** ... ABCD Consortium (2021). Baseline brain function in the preadolescents of the ABCD Study. *Nature neuroscience*, 24(8), 1176–1186. <https://doi.org/10.1038/s41593-021-00867-9>
- Menardi, A., Reineberg, A. E., Vallesi, A., Friedman, N. P., **Banich, M. T.**, & Santarnecchi, E. (2021). Heritability of brain resilience to perturbation in humans. *NeuroImage*, 235, 118013. <https://doi.org/10.1016/j.neuroimage.2021.118013>
- Li, Y., ... **Banich, M.T.** ...Brown, S. (2021). Rates of Incidental Findings in Brain Magnetic Resonance Imaging in Children. *JAMA neurology*, 78(5), 578–587. <https://doi.org/10.1001/jamaneurol.2021.0306>
- Herting, M. M., ... **Banich, M. T.**, ... Sowell, E. R. (2021). Correspondence Between Perceived Pubertal Development and Hormone Levels in 9-10-Year-Olds From the Adolescent Brain Cognitive Development Study. *Frontiers in endocrinology*, 11, 549928. <https://doi.org/10.3389/fendo.2020.549928>
- Ross, J. M., Rieselbach, M. M., Hewitt, J. K., **Banich, M. T.**, & Rhee, S. H. (2021). Children's Knowledge of Cannabis and Other Substances in States with Different Cannabis Use Regulations. *Substance use & misuse*, 56(14), 2126–2133. <https://doi.org/10.1080/10826084.2021.1972316>
- Kim, H., Smolker, H. R., Smith, L. L., **Banich, M. T.**, & Lewis-Peacock, J. A. (2020). Changes to information in working memory depend on distinct removal operations. *Nature communications*, 11(1), 6239. <https://doi.org/10.1038/s41467-020-20085-4>
- Luo, N., Sui, J., Abrol, A., Chen, J., Turner, J. A., Damaraju, E., Fu, Z., Fan, L., Lin, D., Zhuo, C., Xu, Y., Glahn, D. C., Rodrigue, A. L., **Banich, M. T.**, Pearlson, G. D., & Calhoun, V. D. (2020). Structural Brain Architectures Match Intrinsic Functional Networks and Vary across Domains: A Study from 15 000+ Individuals. *Cerebral cortex (New York, N.Y. : 1991)*, 30(10), 5460–5470. <https://doi.org/10.1093/cercor/bhaa127>
- Wang, K., Smolker, H. R., Brown, M. S., Snyder, H. R., Hankin, B. L., & **Banich, M. T.** (2020). Association of γ -aminobutyric acid and glutamate/glutamine in the lateral prefrontal

- cortex with patterns of intrinsic functional connectivity in adults. *Brain structure & function*, 225(7), 1903–1919. <https://doi.org/10.1007/s00429-020-02084-9>
- Wang, K., **Banich, M. T.**, Reineberg, A. E., Leopold, D. R., Willcutt, E. G., Cutting, L. E., Del Tufo, S. N., Thompson, L. A., Opfer, J., Kanayet, F. J., Lu, Z. L., & Petrill, S. A. (2020). Left posterior prefrontal regions support domain-general executive processes needed for both reading and math. *Journal of neuropsychology*, 14(3), 467–495. <https://doi.org/10.1111/jnp.12201>
- Banich, M. T.**, Smith, L. L., Smolker, H. R., Hankin, B. L., Siltan, R. L., Heller, W., & Snyder, H. R. (2020). Common and specific dimensions of internalizing disorders are characterized by unique patterns of brain activity on a task of emotional cognitive control. *International journal of psychophysiology : official journal of the International Organization of Psychophysiology*, 151, 80–93. <https://doi.org/10.1016/j.ijpsycho.2020.02.002>
- Reineberg, A. E., Hatoum, A. S., Hewitt, J. K., **Banich, M. T.** & Friedman, N. P. (2020). Genetic and Environmental Influence on the Human Functional Connectome. *Cerebral cortex (New York, N.Y. : 1991)*, 30(4), 2099–2113. <https://doi.org/10.1093/cercor/bhz225>
- Hagler, D. J., Jr, ... **Banich, M.T.** ... Dale, A. M. (2019). Image processing and analysis methods for the Adolescent Brain Cognitive Development Study. *NeuroImage*, 202, 116091. <https://doi.org/10.1016/j.neuroimage.2019.116091>
- Friedman, N.P. & **Banich, M.T.** (2019). Questionnaires and task-based measures assess different aspects of self-regulation: Both are needed. *Proceedings of the National Academy of Sciences: USA*, 116 (49), 24396-24397.
- Banich, M.T.** (2019). The Stroop effect occurs at multiple points along a cascade of control: Evidence from cognitive neuroscience approaches. *Frontiers in Psychology*, 10, October 09, 2019: ARTN 2164.
- Banich, M.T.**, & Floresco, S. (2019). Reward systems, cognition, and emotion: Introduction to the special issue. *Cognitive Affective and Behavioral Neuroscience*, 19(3), 409-414. doi: 10.3758/s13415-019-00725-z
- Wang, K., Leopold, D.R., **Banich, M.T.**, Reineberg, A.E., Willcutt, E.G., Cutting, L.E., Del Tufo S.N., Thompson, L.A., Opfer, J., Kanayet, F.J., Lu, Z.L., & Petrill, S.A. (2019). Characterizing and decomposing the neural correlates of individual differences in reading ability among adolescents with task-based fMRI. *Developmental Cognitive Neuroscience*, 37, 100647. doi:10.1016/j.dcn.2019.100647
- Orr, J.M., Imburgio, M.J., Bernard, J.A., & **Banich, M.T.** (2019). Striatal-frontal network activation during voluntary task selection under conditions of monetary reward. *Cognitive Affective and Behavioral Neuroscience*, 19(3), 568-585. doi: 10.3758/s13415-019-00689-0. Erratum in: *Cognitive Affective and Behavioral Neuroscience*. 2019 Feb 25
- Banich, M.T.**, Smolker, H.R., Snyder, H.R., Lewis-Peacock, J.A., Godinez, D.A., Wager, T.D., & Hankin, B.L. (2019). Turning down the heat: Neural mechanisms of cognitive control for inhibiting task-irrelevant emotional information during adolescence. *Neuropsychologia*, 125, 93-108. doi: 10.1016/j.neuropsychologia.2018.12.006.
- Smith, L.L., **Banich, M.T.**, & Friedman, N.P. (2019). Individual differences in mixing costs relate to general executive functioning. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 45(4), 606-613. doi: 10.1037/xlm0000613.
- Gould, J.R., Reineberg, A.E., Cleland, B.T., Knoblauch, K.E., Clinton, G.K., **Banich, M.T.**, Corboy, J.R., & Enoka, R.M. (2018). Adjustments in Torque Steadiness During Fatiguing Contractions Are Inversely Correlated With IQ in Persons With Multiple Sclerosis. *Frontiers in Physiology*, 9, 1404. doi: 10.3389/fphys.2018.01404.

- Reineberg, A.E., Gustavson, D.E., Benca, C., **Banich, M.T.**, & Friedman, N.P. (2018). The Relationship Between Resting State Network Connectivity and Individual Differences in Executive Functions. *Frontiers in Psychology, 9*, 1600. doi: 10.3389/fpsyg.2018.01600.
- Smolker, H.R., Friedman, N.P., Hewitt, J.K., & **Banich, M.T.** (2018). Neuroanatomical Correlates of the Unity and Diversity Model of Executive Function in Young Adults. *Frontiers in Human Neuroscience, 12*, 283. doi: 10.3389/fnhum.2018.00283.
- Vargas, T., Snyder, H., **Banich, M.**, Newberry, R., Shankman, S.A., Strauss, G.P., & Mittal, V.A. (2018). Altered selection during language processing in individuals at high risk for psychosis. *Schizophrenia Research, 202*, 303-309. doi: 10.1016/j.schres.2018.06.036.
- Casey, B.J., Cannonier, T., Conley, M.I., Cohen, A.O., Barch, D.M., Heitzeg, M.M., Soules, M.E., Teslovich, T., Dellarco, D.V., Garavan, H., Orr, C.A., Wager, T.D., **Banich, M.T.**, Speer, N.K., Sutherland, M.T., Riedel, M.C., Dick, A.S., Bjork, J.M., Thomas, K.M., Chaarani, B., Mejia, M.H., Hagler, D.J. Jr, Daniela Cornejo, M., Sicut, C.S., Harms, M.P., Dosenbach, N.U.F., Rosenberg, M., Earl, E., Bartsch, H., Watts, R., Polimeni, J.R., Kuperman, J.M., Fair, D.A., Dale, A.M., & ABCD Imaging Acquisition Workgroup. (2018). The Adolescent Brain Cognitive Development (ABCD) study: Imaging acquisition across 21 sites. *Developmental Cognitive Neuroscience, 32*, 43-54. doi: 10.1016/j.dcn.2018.03.001
- Luciana, M., Bjork, J.M., Nagel, B.J., Barch, D.M., Gonzalez, R., Nixon, S.J., & **Banich, M.T.** (2018). Adolescent neurocognitive development and impacts of substance use: Overview of the adolescent brain cognitive development (ABCD) baseline neurocognition battery. *Developmental Cognitive Neuroscience, 32*, 67-79. doi: 10.1016/j.dcn.2018.02.006.
- Mackiewicz Seghete, K.L., DePrince, A.P., & **Banich, M.T.** (2018). Association Between Initial Age of Exposure to Childhood Abuse and Cognitive Control: Preliminary Evidence. *Journal of Trauma and Stress, 31(3)*, 437-447. doi: 10.1002/jts.22290.
- Banich, M.T.** (2018). Emerging themes in cognitive control: Commentary on the special issue of Psychophysiology entitled "Dynamics of Cognitive Control: A View Across Methodologies". *Psychophysiology, 55(3)*. doi: 10.1111/psyp.13060
- Iacono, W.G., Heath, A.C., Hewitt, J.K., Neale, M.C., **Banich, M.T.**, Luciana, M.M., Madden, P.A., Barch, D.M., & Bjork, J.M. (2018). The utility of twins in developmental cognitive neuroscience research: How twins strengthen the ABCD research design. *Developmental Cognitive Neuroscience, 32*, 30-42. doi: 10.1016/j.dcn.2017.09.001.
- de la Vega, A., Yarkoni, T., Wager, T.D., & **Banich, M.T.** (2018). Large-scale meta-analysis suggests low regional modularity in lateral frontal cortex. *Cerebral Cortex, 28(10)*, 3414-3428. doi: 10.1093/cercor/bhx204
- Yamamoto, D.J., **Banich, M.T.**, Regner, M.F., Sakai, J.T., & Tanabe, J. (2017). Behavioral approach and orbitofrontal cortical activity during decision-making in substance dependence. *Drug and Alcohol Dependence, 180*, 234-240. doi: 10.1016/j.drugalcdep.2017.08.024.
- Mackiewicz Seghete, K.L., Kaiser, R.H., DePrince, A.P. & **Banich MT.** (2017). General and emotion-specific alterations to cognitive control in women with a history of childhood abuse. *NeuroImage: Clinical, 16*, 151-164. doi: 10.1016/j.nicl.2017.06.030
- Fogleman, N.D., Naaz, F., Knight, L.K., Stoica, T., Patton, S.C., Olson-Madden, J.H., Barnhart, M.C., Hostetter, T.A., Forster, J., Brenner, L.A., **Banich M.T.** & Depue BE. (2017). Reduced lateral prefrontal cortical volume is associated with performance on the modified Iowa Gambling Task: A surface based morphometric analysis of previously deployed veterans. *Psychiatry Research, 267*, 1-8. doi: 10.1016/j.psychres.2017.06.014
- Crowley, T.J., Dalwani, M.S., Sakai, J.T., Raymond, K.M., McWilliams, S.K., **Banich, M.T.** & Mikulich-Gilbertson, S.K. (2017). Children's brain activation during risky decision-making:

- A contributor to substance problems? *Drug and Alcohol Dependence*, 178, 57-65. doi:10.1016/j.drugalcdep.2017.02.028
- Sakai, J.T., Dalwani, M.S., Mikulich-Gilbertson, S.K., Raymond, K., McWilliams, S., Tanabe, J., Rojas, D., Regner, M., **Banich, M.T.**, & Crowley, T.J. (2017). Imaging decision about whether to benefit self by harming others: Adolescents with conduct and substance problems, with or without callous-unemotionality, or developing typically. *Psychiatry Research*, 263, 103-112. doi: 10.1016/j.psychresns.2017.03.004
- Godinez, D.A., McRae, K., Andrews-Hanna, J.R., Smolker, H. & **Banich, M.T.** (2016). Differences in frontal and limbic brain activation in a small sample of monozygotic twin pairs discordant for severe stressful life events. *Neurobiology of Stress*, 28, 26-36. doi: 10.1016/j.ynstr.2016.10.002
- Orr, J.M., Paschall, C.J., & **Banich, M.T.** (2016). Recreational marijuana use impacts white matter integrity and subcortical (but not cortical) morphometry. *Neuroimage: Clinical*, 12, 47-56. doi:10.1016/j.nicl.2016.06.006
- Burdwood, E.N., Infantolino, Z.P., Crocker, L.D. Spielberg, J.M., **Banich, M.T.**, Miller, G.A., & Heller, W. (2016). Resting-state functional connectivity differentiates anxious apprehension and anxious arousal. *Psychophysiology*, 53, 1451-1459. doi: 10.1111/psyp.12696
- de la Vega, A., Chang, L.J., **Banich, M.T.**, Wager, T.D., & Yarkoni, T. (2016). Large-Scale Meta-Analysis of Human Medial Frontal Cortex Reveals Tripartite Functional Organization. *Journal of Neuroscience*, 36, 6553-6562. doi: 10.1523/JNEUROSCI.4402-15.2016.
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- Boulos, P.K., Dalwani, M.S., Tanabe, J., Mikulich-Gilbertson, S.K., **Banich, M.T.**, Crowley, T.J., Sakai, J.T. (2016). Brain Cortical Thickness Differences in Adolescent Females with Substance Use Disorders. *PLoS One*, 11(4), e0152983. doi: 10.1371/journal.pone.0152983.
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- Senholzi, K.B., Depue, B.E., Correll, J., **Banich, M.T.**, & Ito, T.A. (2015). Brain activation underlying threat detection to targets of different races. *Social Neuroscience*, 10(6), 651-662. doi:10.1080/17470919.2015.1091380
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- Krmpotich, T., Mikulich-Gilbertson, S., Sakai, J., Thompson, L., **Banich, M. T.**, & Tanabe, J. (2015). Impaired Decision-Making, Higher Impulsivity, and Drug Severity in Substance Dependence and Pathological Gambling. *Journal of Addiction Medicine*, 9(4), 273-280.
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- Banich, M.T.**, Stokes, A., & Elledge, V. C. (1989) Neuropsychological evaluation of aviators: A review. *Aviation, Space and Environmental Medicine*, 60, 361-366.
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Major Grant and Research Support:

As P.I. or M.P.I.

R56MH12542	Banich/Lewis-Peacock (MPIs)	8/1/2021 – 7/31/2022
<i>Removing and Manipulating Emotional Information in Working Memory: Cognitive and Neural Representations</i>		
U01D1051018	Banich/Hewitt (site MPIs)	4/15/2020 – 3/31/2027
<i>14/21 ABCD-USA Consortium: Research Project Site at CU Boulder</i>		
U01 DA041120	Banich/Hewitt (site MPIs)	12/01/2015 – /5/13/2020
<i>ABCD-USA Consortium: Twin Research Project</i>		
R01 MH105501	Banich/Hankin (MPIs)	8/17/2015 – 5/22/2019
<i>Prefrontal Mechanisms of Selection: Disrupted in Internalizing Psychopathology</i>		
R21 MH108848	Banich/Lewis-Peacock (MPIs)	6/20/2016 – 3/31/2019
<i>Clearing the Contents of Working Memory: Mechanisms & Representations</i>		
P50 MH079485	Banich (PI)	4/22/08 – 01/31/13
<i>Interdisciplinary Behavioral Science Center: Determinants of Executive Function and Dysfunction</i>		
R03 HD0626001	Banich (PI)	1/15/10 – 12/31/12
<i>Cognitive and Brain Processes in Individuals with Childhood Interpersonal Trauma</i>		
10 IHA 12614 (Colo DHS)	Banich (PI)	7/01/10 – 6/30/13
<i>Executive Dysfunction and Suicidal Behavior: An Examination of Veterans with Traumatic Brain Injury, Post-Traumatic Stress Disorder or Both</i>		
R01 MH070037	Banich (PI)	6/1/04 – 5/31/10
<i>Brain Mapping and Genetics of Executive Function in ADHD</i>		
MacArthur Foundation	Banich (site PI)	7/1/03 – 12/31/07
<i>Culpability Study</i>		
NSF 0518699 SBE	Banich (PI)	10/1/06 – 9/30/08
<i>Leveraging human generalization abilities for optimal learning</i>		
R01 MH54217	Banich (PI)	3/1/97 – 2/28/01
<i>Attentional capacity: Modulation by cerebral dynamics</i>		

As Co-I (last 10 years)

RO1 MH063207	Hewitt (PI)	12/1/13 – 11/30/18
<i>Neural Substrates of Executive Function: An fMRI Twin Study</i>		
R37 AG013038	Seals (PI)	4/01/14 – 03/31/19
<i>Nitrite Supplementation for Improving Physiological Function in Older Adults</i>		
R01 AG043452	Bryan (PI)	4/01/14 – 03/31/19
<i>Enhancing function in later life: Exercise and functional network connectivity</i>		
P60 DA011015	Young (PI)	5/01/09 – 2/28/14
<i>Center on Antisocial Drug Dependence: The Genetics of HIV Risk Behaviors</i>		
R01 DA027748	Tanabe (PI)	9/01/09 – 8/31/14
<i>Neural Correlates of Avoidance Learning in Substance Abuse</i>		
R01 MH094650	Mittal (PI)	6/01/11 – 2/28/16
<i>Frontal-Subcortical Development, Movement Abnormalities, and Risk for Psychosis</i>		
R24 075460	Petrill (PI)	9/1/12 – 8/31/16
<i>Neurobiological Underpinnings of Math and Reading Comorbidity: A Twin Study</i>		
R01 DA009842	Crowley (PI)	9/05/06 – 4/30/11
<i>Substance Dependent Adolescents: Imaging Risk-Taking</i>		
R21 DA024104	Tanabe (PI)	6/15/08 – 5/31/10
<i>Frontal Striatal Activity During Decision Making in Substance Abuse</i>		

Teaching:

Undergraduate:	Cognitive Neuroscience, Biological Psychology, Honors Seminars
Graduate Seminars:	Using ABCD Data to Answer Scientific Questions; Translational Cognitive Neuroscience; Functional Magnetic Resonance Imaging in Cognitive Neuroscience; Executive Function, Higher Order Vision and Attention; Higher Order Cognition

Committee Chair for Doctoral Dissertations:

Neal Stolar (1992)	<i>The association of symptoms in schizophrenia and dysfunction of specific brain regions</i>
Aysenil Belger (1993)	<i>Influences of hemispheric specialization and interaction on task performance</i>
Erika Noll (1996)	<i>Target detection in left and right hemispace</i>
Joel Shenker (1997)	<i>Neurology of attention: Interhemispheric processing provides unique, dynamic, and cognitively-sensitive neural resources in the Stroop task</i>
Alessandra Passarotti (1999)	<i>Insulation of processes across the hemispheres modulates attentional processes</i>
Daniel Weissman (1999)	<i>The cerebral hemispheres cooperate to perform complex but not simple tasks</i>
Kevin Spencer (1999)	<i>Hemispheric mechanisms of visuospatial selective attention</i>
Michael Milham (2002)	<i>An fMRI Analysis of Dorsolateral Prefrontal Cortex's Involvement in Attentional Control</i>
Brendan Depue (2009)	

Controlled Memory Suppression: Evidence from Behavioral and Neuroimaging Paradigms and Clinical Populations

Anson Whitmer (2009)

The Cognitive and Neural Mechanisms of Rumination

Amanda Hutchinson (2009)

Corpus Callosum Morphology and function in Attention Deficit Hyperactivity Disorder and the relationship between the corpus callosum and cognitive functioning in healthy adults.

Kristen Mackiewicz (2011)

Cognitive and Brain Processes in Young Adults with a History of Childhood Interpersonal Trauma

Hannah Synder (2012)

Choosing Our Words: Neural Mechanisms Supporting Cognitive Control During Language Processing

Roselinde Kaiser (2012)

Depression and Cognitive Control in the Face of Negative Information or Stressors

Andrew Reineberg (2016)

On the Neural Basis of Individual Differences in Executive Function: A Series of Studies of the "Resting" Brain

Alejandro De La Vega (2016)

Large Scale Meta-analytic Cartography of Human Frontal Cortex

Harry Smolker (2020)

Neuroanatomical Correlates of a Bifactor Model of Internalizing Psychopathology

David Caha (2021)

The Relationship between Internalizing Psychopathology and Poor Sleep: Stability and the Influence of the COVID-19 Pandemic and Stress in Youth and Adult women

Postdoctoral Advisees

Rebecca Compton, Ruth Ann Atchley, Xun Liu, Gregory Burgess, Joseph Dagher, Detre Godinez, Jessica Andrews-Hanna, Brendan Depue, Joseph Orr, Kai Wang, Daniel Leopold, Megan Patterson, Harry Smolker

Reviewing:

Granting agencies:

Ad hoc: NIH, including proposals submitted to NIMH, NIE, NIDA, NINDS, NICHD, NIAAA; National Science Foundation, Natural Sciences and Engineering Research Council of Canada; Israel Science Foundation; Rockefeller Foundation

Journals:

Ad hoc: *Brain & Cognition, Cerebral Cortex, Cognition and Emotion, Cognitive Affective and Behavioral Neuroscience, Cognitive Brain Research, Cortex, Current Trends in Psychological Science, Developmental Neuropsychology, Developmental Psychology, Experimental Brain Research, Human Brain Mapping, Journal of Experimental Psychology: General, Journal of Experimental Psychology: Human Perception and Performance, Journal of the International Neuropsychological Society, Journal of Neuroscience, Nature Neuroscience, NeuroImage, Neuropsychology, Proceedings of the National Academy of Sciences, Psychological Science, Vision Research*

University & Professional Service:

Chair, Search Committee, Director of the Institute for Behavioral Genetics, Fall 2021

Chair, Faculty Search Committee, Joint Departmental and Institute Faculty, 2019-2020, 2021-2022

Chair, Review Committee, Brain, Biology & Behavior Center, University of Nebraska Lincoln 2021

Member, External Advisory Committee, The Beckman Institute for Advanced Science and Technology, University of Illinois at Urbana- Champaign, 2019

Member, Campus-wide Program Review Committee 2016

Chair, Review Committee, Psychology Program, Georgia Institute of Technology, 2013

Member, Review Committee, External Advisory Panel, Psychology Department, Texas A&M, 2013

Member, Industry Collaboration Advisory Committee, 2013 – 2014

Member, Research Computing /Cyberinfrastructure Committee 2011 – 2014

Member, Program Committee for Annual Meeting, Cognitive Neuroscience Society 2011 – 2013

Member, Faculty Search Committee, Clinical Program, 2010 – 2011; 2011 – 2012

Member, PRP task force University of Colorado Boulder 2005 – 2006

Chair, Faculty Search Committee, Institute of Cognitive Science, 2005 & 2006

Director, Institute of Cognitive Science 2004 – present

Executive Committee of the Institute for Cognitive Science 2003 – 2004

Chair, Cognitive Program, Dept. of Psychology 2003 – 2004

Member, Executive Committee, Dept. of Psychology 2000- 2002

Chair, Institutional Review Board for the Protection of Human Subjects, 1996 – 1998

Chair, Miller Committee, (for planning campus-wide colloquia), 1994 – 1998

Member, Search Committee for the Head of the Department of Psychology, 1995

Member, Miller Committee, Center for Advanced Study, 1991 – 1994

Member, Equal Employment Opportunity Committee, College of Liberal Arts and Sciences, 1994 – 1995

Member, Program Advisory Committee, The Beckman Institute 1994 – 1997

Advisory Board, Program on Women, Information Technology and Scholarship, Center for Advanced Study, 1991 – 1994

Member, Institutional Review Board for the Protection of Human Subjects, 1991 – 1994

Member, Search Committee for the Director of the Beckman Institute, 1992 – 1993

Selected Invited Talks and Presentations:

Ohio State University, Center for Cognitive and Behavioral Brain Imaging (December 9, 2021)
“Stop thinking about it”! Neural and Cognitive Mechanisms for Actively Removing Information from Working Memory

Society for Research in Psychopathology, Invited Address (September 25, 2021)
Cognitive Control over Internal Thought and its Relevance to Psychopathology

Northwestern University, Department of Psychology (April 9, 2021)
“Stop thinking about it”! Neural and Cognitive Mechanisms for Actively Removing Information from Working Memory

International Neuropsychological Symposium, Vietri sul Mare, Italy (June 29, 2019)
Inhibitory Control over Information in Working Memory

University of Texas Dallas, Dean’s Colloquium Series, School of Behavioral & Brain Sciences (March 8th, 2019)
Clearing the Contents of Working Memory

CU Boulder, Presentation to Alumni Board of Advisors, (July 19, 2018)

The Teen Brain

CU Director's Club Summer Conference, Vail Colorado (June 15, 2018)

The Teen Brain: What every Parent (and Teenager) Needs to Know

Denver University, Dept. of Psychology (April 20, 2018)

The Development of Executive Abilities: Perspectives from behavioral & neuroimaging studies

Sylvius Lecture, University of Leiden, Leiden, Netherlands (March 26, 2018)

Individual differences in Anatomical and Functional Aspects of Brain Connectivity that Influence Components of Executive Function

Dresden Technical University, Dresden Germany; Dresden Spring School (March 20, 2018)

The Development of Executive Abilities: Perspectives from Behavior and Neuroimaging

University of Texas Austin, Dept. of Psychology (March 2, 2018)

Individual Differences in Anatomical and Functional Aspects of Brain Connectivity that Influence Components of Executive Function

Texas A&M, Department of Psychology (March 1, 2018)

Inhibitory Control as a Critical Component of Executive Function? Conceptual Formulations and Neurobiological Mechanisms

CU Next, Los Angeles, California (Feb 24, 2018)

Understanding the Teen Brain

G. Stanley Hall Keynote Lecture, New England Psychological Association, William James College, Newton, MA (Oct. 21, 2017)

Brain and Mind: Core Concepts and Emerging Ideas in Cognitive Neuroscience

University of Verona, Verona, Italy, Department of Neuroscience, Biomedicine and Movement (October 5, 2017)

Cognitive Control over Perceptual and Working Memory Representations of Visual Information

University of Padova, Padova Italy, Master Course in Cognitive Neuroscience and Clinical Neuropsychology, Neuroscience Center (October 3, 2017)

Individual Differences in the Neural Substrates that Support Factors underlying Executive Function

University of Padova, Padova, Italy, Master Course in Cognitive Neuroscience and Clinical Neuropsychology, Department of General Psychology (October 2, 2017)

The Development of Executive Abilities: Perspectives from Behavior and Neuroimaging

International Conference "Cognitive Neuroscience of Executive Function" University of Padova, Padova Italy (Sept. 29, 2017)

Inhibitory Control as a Critical Component of Executive Function? Conceptual Formulations and Neurobiological Mechanisms

Starkey Duncan Memorial Distinguished Alumni Lecture, University of Chicago, Department of Psychology, (Oct. 6, 2016)

Talking to each Other: How Connectivity between Brain Regions influences Processing Capacity and Cognitive Control

Distinguished Speaker, Tufts University Annual Psychology/Biology Lecture (Feb. 22, 2013)

Neural Systems involved in Executive Function and Cognitive Control: Translational Research