

**National Space Biomedical Research Institute**  
**Publications**  
**Neurobehavioral and Psychosocial Factors Team**

**Articles**

Brady, J. V. Behavioral health: The propaedeutic requirement. *Aviat Space Environ Med* 76(6 Suppl):B13-24, 2005.

Brady, J. V., R. D. Hienz, S. R. Hursh, L. C. Ragusa, C. O. Rouse, and E. D. Gasior. Distributed interactive communication in simulated space-dwelling groups. *Comput Human Behav* 20(2):311-340, 2004.

Carter, J. A., J. C. Buckey, L. Greenhalgh, A. W. Holland, and M. T. Hegel. An interactive media program for managing psychosocial problems on long-duration spaceflights. *Aviat Space Environ Med* 76(6 Suppl):B213-23, 2005.

Dinges, D. F., R. L. Rider, J. Dorrian, E. L. McGlinchey, N. L. Rogers, Z. Cizman, S. K. Goldenstein, C. Vogler, S. Venkataraman, and D. N. Metaxas. Optical computer recognition of facial expressions associated with stress induced by performance demands. *Aviat Space Environ Med* 76(6 Suppl):B172-82, 2005.

Dinges DF, Venkataraman S, McGlinchey EL, Metaxas DN. Monitoring of facial stress during space flight: Optical computer recognition combining discriminative and generative methods. *Acta Astronaut.* 2007 Feb-Apr;60(4-7):341-50.

Emurian HH, Brady JV. Behavioral health management of space dwelling groups: Safe passage beyond Earth orbit. *Behav Ana Today.* 2007 Jun;8(2):113-135.

Fiedler, E. R. Operational processes and cognitive mapping. *Aviat Space Environ Med* 76(7 Suppl):C4-6, 2005.

Fiedler, E. R., and F. E. Carpenter. Evolution of the Behavioral Sciences Branch of the Space Medicine and Health Care Systems Office at the Johnson Space Center. *Aviat Space Environ Med* 76(6 Suppl):B31-5, 2005.

Fischer U, McDonnell L, Orasanu J. Linguistic correlates of team performance: Toward a tool for monitoring team functioning during space missions. *Aviat Space Environ Med.* 2007 May;78(5 Suppl):B86-95.

Goldenstein, S. K., C. Vogler, and D. Metaxas. Statistical cue integration in DAG deformable models. *IEEE Transactions on Pattern Analysis and Machine Intelligence* 25(7):801-813, 2003.

Guida, P., M. E. Vazquez, and S. Otto. Cytotoxic effects of low- and high-LET radiation on human neuronal progenitor cells: induction of apoptosis and TP53 gene expression. *Radiat Res* 164(4):545-51, 2005.

Hienz RD, Brady JV, Hursh SR, Banner MJ, Gasior ED, Spence KR. Communication constraints, indexical countermeasures, and crew configuration effects in simulated space-dwelling groups. *Acta Astronaut*. 2007 Feb-Apr;60(4-7):362-78.

Hienz, R. D., J. V. Brady, S. R. Hursh, L. C. Ragusa, C. O. Rouse, and E. D. Gasior. Distributed communication and psychosocial performance in simulated space dwelling groups. *Acta Astronaut* 56(9-12):937-48, 2005.

Hochstadt, J., H. Nakano, P. Lieberman, and J. Friedman. The roles of sequencing and verbal working memory in sentence comprehension deficits in Parkinson's disease. *Brain Lang* 97(3):243-57, 2006.

Kosslyn, S. M. You can play 20 questions with nature and win: Categorical versus coordinate spatial relations as a case study. *Neuropsychologia* 44(9):1519-23, 2006.

Kugler SL, Bali B, Lieberman P, Strug L, Gagnon B, Murphy PL, Clarke T, Greenberg DA, Pal DK. An autosomal dominant genetically heterogeneous variant of rolandic epilepsy and speech disorder. *Epilepsia*. 2008 Jan 29 [Epub ahead of print]

Lieberman, P. Human language and our reptilian brain. The subcortical bases of speech, syntax, and thought. *Perspect Biol Med* 44(1):32-51, 2001.

Lieberman, P. On the nature and evolution of the neural bases of human language. *Am J Phys Anthropol*. 45:36-62, 2002.

Lieberman P. The evolution of human speech: Its anatomical and neural bases. *Curr Anthropol*. 2007 Feb;48(1):39-66.

Lieberman, P., A. Morey, J. Hochstadt, M. Larson, and S. Mather. Mount Everest: A space analogue for speech monitoring of cognitive deficits and stress. *Aviat Space Environ Med* 76(6 Suppl):B198-207, 2005.

Musson, D. M., and R. L. Helmreich. Long-term personality data collection in support of spaceflight and analogue research. *Aviat Space Environ Med* 76(6 Suppl):B119-25, 2005.

Lieberman P, McCarthy R. Tracking the evolution of language and speech: Comparing vocal tracks to identify speech capabilities. *Expedition*. 2007 Summer;49(2):15-20.

Orasanu, J. Crew collaboration in space: a naturalistic decision-making perspective. *Aviat Space Environ Med* 76(6 Suppl):B154-63, 2005.

Prince, C., J. Orasanu, E. Salas, and M. Brannick. Beyond facilitation: An improved CRM debrief for safety training. *Human Factors and Aerospace Safety* 5(1):1-17, 2005.

Schmidt, L. L., J. Wood, and D. J. Lugg. Gender differences in leader and follower perceptions of social support in Antarctica. *Acta Astronaut* 56(9-12):923-31, 2005.

Schmidt, L. L., J. Wood, and D. J. Lugg. Team climate at Antarctic research stations 1996-2000: Leadership matters. *Aviat Space Environ Med* 75(8):681-7, 2004.

Shephard JM, Kho S, Chen J, Kosslyn SM. MiniCog: A method for administering psychological tests and experiments on a handheld personal digital assistant. *Behav Res Methods*. 2006 Nov;38(4):648-55.

Shephard, J. M., and S. M. Kosslyn. The MiniCog rapid assessment battery: Developing a "Blood Pressure Cuff for the Mind." *Aviat Space Environ Med* 76(6 Suppl):B192-7, 2005.

Wood, J., L. Schmidt, D. Lugg, J. Ayton, T. Phillips, and M. Shepanek. Life, survival, and behavioral health in small closed communities: 10 years of studying isolated Antarctic groups. *Aviat Space Environ Med* 76(6 Suppl):B89-93, 2005.