

APPENDIX I:

**BEHAVIOR
AND
ENRICHMENT
STUDIES**

The Department of Primate Psychology performs various studies on the nonhuman primates housed at BIOQUAL, Inc. using a non-invasive behavioral data collection method, similar to that used during monthly behavioral observations, in order to help assess aspects of the BIOQUAL, Inc. Environmental Enhancement Plan and monitor benefits of the provided environmental conditions. Any data collected may be compiled and presented at various scientific conferences and/or published in scientific journals to benefit the psychological well-being of nonhuman primates in other institutions. Protocol requests for behavioral studies are submitted to the BIOQUAL, Inc. IACUC when any aspect of the BIOQUAL, Inc. Environmental Enhancement Plan is altered; however, behavioral observations for such studies are non-invasive, and approval is rarely required.

Studies performed at BIOQUAL, Inc. include:

Leland, S.P.; West, A.M.; Muhammad, F.S.; Wagner, W.L.; Cook, A.L.; Erwin, J.M. "DO RHESUS MACAQUES (*MACACA MULATTA*) PREFERENTIALLY INCORPORATE NOISY OBJECTS IN THREAT DISPLAYS?" To be presented in the form of a poster presentation at the 2009 ASP Annual Conference in San Diego, CA)

West, A.M.; Leland, S.P.; Collins, M.W.; Welty, T.M.; Wagner, W. L.; Erwin, J.M. "PAIR FORMATION IN LABORATORY RHESUS MACAQUES (*MACACA MULATTA*): A RESTROSPECTIVE ASESSMENT OF A COMPATIBILITY TESTING PROCEDURE." To be presented in the form of a poster presentation at the 2009 ASP Annual Conference in San Diego, CA)

Leland, S. P.; West, A. M.; Pippin, Z. L.; Dodson, A. T.; Wagner, W. L.; Cook, A. L.; Erwin, J. M. "EFFECTS OF FAMILIARITY AND NOVELTY ON RATES OF ENVIRONMENTAL ENRICHMENT OBJECT MANIPULATION BY LABORATORY RHESUS MACAQUES (*MACACA MULATTA*)."

American Journal of Primatology 70 (Supplement 1): 29, 2008 (abstract). (2008 ASP poster presentation- West Palm Beach, Florida)

Leland, S. P.; West, A. M.; Shaver, C. K.; Wagner, W. L.; Cook, A. L.; Erwin, J. M. "LONGITUDINAL COMPARISON OF RATES OF SPECIES-TYPICAL BEHAVIOR OF CHIMPANZEES (*PAN TROGLODYTES*) IN AN ENRICHED LABORATORY ENVIRONMENT." American Journal of Primatology 70 (Supplement 1): 92, 2008 (abstract). (2008 ASP poster presentation- West Palm Beach, Florida)

West, A. M.; Leland, S. P.; Lorence, M. A.; Welty, T. M.; Wagner, W. L.; Erwin, J. M. "BEHAVIORAL CORRELATES OF ALOPECIA SEVERITY IN LABORATORY RHESUS MACAQUES (*MACACA MULATTA*)."

American Journal of

Primates 70 (Supplement 1): 93, 2008 (abstract). (2008 ASP poster presentation- West Palm Beach, Florida)

Leland, S. P.; West, A. M.; Byrum, R. A.; Dodson, A. T.; Harbaugh, S. W.; Matthias, L. G.; Wagner, W. L.; St. Claire, M. C.; Erwin, J. M. "INCORPORATION OF ENRICHMENT OBJECTS IN THREAT DISPLAYS BY LABORATORY RHESUS MACAQUES (*Macaca mulatta*)."
American Journal of Primatology 69 (Supplement 1): 43, 2007 (abstract). (2007 ASP poster presentation- Winston-Salem, North Carolina)

West, A. M.; Leland, S. P.; Shaver, C. K.; Wagner, W. L.; St. Claire, M. C.; Erwin, J.M. COMPARISON OF BEHAVIORAL PATTERNS AMONG SEVEN JUVENILE CHIMPANZEES (*Pan troglodytes*) UNDER DIFFERING HOUSING CONFIGURATIONS: A PILOT STUDY. *American Journal of Primatology* 69(Supplement 1): 160, 2007 (abstract). (2007 ASP poster presentation- Winston-Salem, North Carolina)

Leland, S. P.; Arbenz-Smith, K. M.; Shaver, C.K.; St. Claire, M.C.; and Erwin, J. M.; "TESTING THE POSITIVE EFFECTS OF AN ACTIVITY ROOM ON SPECIES-TYPICAL BEHAVIOR IN CAPTIVE CHIMPANZEES (*Pan troglodytes*): A PILOT STUDY." *American Journal of Primatology* 68 (Supplement 1): 107, 2006 (abstract). (2006 ASP poster presentation- San Antonio, Texas)

Smith, K. M.; Leland, S. P.; St. Claire, M.; Shaver, C. K.; and Erwin, J. M. "POSSIBLE CONSPECIFIC IMITATION IN CHIMPANZEES (*Pan troglodytes*): TO BRUSH OR NOT TO BRUSH?" *American Journal of Primatology* 66 (Supplement 1): 163, 2005 (abstract). (2005 ASP poster presentation- Portland, Oregon)

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