



## PAS Grants, Awards, Publications, & Presentations May 2009

### Grants:

**Daniels, Ashley N.** (MU Undergrad) "*Masticatory Stress, Plasticity and Aging in Mammalian Jaw Joints*". Life Sciences Undergraduate Research Opportunity Program Grant (Summer 2009 for research in **MJ Ravosa** Lab: \$3,500)

**Menegaz, Rachel**, *William Pollitzer Travel Award* to attend American Association of Physical Anthropologists (Chicago, April 2009)

### Awards:

**Randihar Mitra**, *Order of Socrates II teaching award*, University of Missouri School of Medicine

**Douglas Anthony**, named "*Expert Panel Member*" of the Consultant Panel to the National Board of Medical Examiners, USMLE Step I Board Exam content, 2009.

### Publications:

Bastir, M., Rosas, A., Stringer, C., Manuel de la Cuétara, J.M., Kruszynski, R., Weber, G., Ross, C.F. & **Ravosa, M.J.** (2009) *The effects of brain and facial size on the evolution of the basicranium in Homo*. J. Human Evolution, in press.

Cho DH, Nakamura T, Fang J, Cieplak P, Godzik A, **Gu Z**, and Lipton SA (2009) *S-Nitrosylation of Drp1 Mediates  $\beta$ -Amyloid-Related Mitochondrial Fission and Neuronal Injury*, Science 3 April: 102-105.

**Gu Z, Cui J, and Lipton S.** (2009) *Matrix Metalloproteinases in Cerebral Hypoxia-Ischemia* in Brain Hypoxia and Ischemia, Series: Contemporary Clinical Neuroscience Haddad, GG; Yu, S P (Eds.) Humana Press, San Diego, CA p. 225-238.

**Wang, MX and Shi, HD** (2009): *Basics of Molecular Biology, Genetic Engineering and Metabolic Engineering*, Chapter 2 in: Fu, PC, Latterich, M, and Panke, S (ed): Systems Biology and Synthetic Biology, John Wiley & Sons, Inc. 2009, pp 9-66.

## **Presentations:**

**Aldridge K, Wang L, Harms MP, Moffitt AJ, Pope KK, Csernansky JG, Selemon LD** (2009) "*A longitudinal study of the emergence of postnatal neuroanatomical abnormalities in non-human primates exposed to irradiation in utero: a neurodevelopmental mode of schizophrenia*". International Congress on Schizophrenia Research.

**Aldridge K, Wang L, Harms MP, Moffitt AJ, Pope KK, Csernansky JG, Selemon LD** (2009) "*A longitudinal study of postnatal brain morphology in Rhesus macaques exposed to an environmental insult in utero*". American Association of Physical Anthropologists (**oral presentation**).

**Anthony DC.** "*Brain Tumors: Current Classification and New Horizons*". Pathology Grand Rounds, Kansas University Medical Center, Kansas City, KS, April 2009 (**oral presentation**).

**Bastir, M., Rosas, A., Stringer, C., Manuel de la Cuétara, J.M., Kruszynski, R., Ross, C.F. & Ravosa, M.J.** (2009) "*Basicranial flexion in the evolution of Homo: New analyses of an old model*". American Association of Physical Anthropology (Chicago).

**Costley, D.B., Ross, C.F., Dharia, R., Herring, S.W., Williams, S.H., Hylander, W.L., Liu, Z.-J., Rafferty, K.L. & Ravosa, M.J.** "*Variation in masticatory loading parameters across mammals*". University of Missouri Life Science Week.

**Daniel, A.N., Costley, D.B., Phillips, W.N., Rohlfing, A.J., Ning, J., Stack, M.S. & Ravosa, M.J.** "Effects of dietary properties on jaw-muscle growth, proportions and biochemistry". University of Missouri Life Science Week.

**Duff DJ, Nalluri S, and Wang MX** (2009) "Promoter CGI methylation of reprogramming factors in aggressive B-cell lymphomas" American Association for Cancer Research 100<sup>th</sup> Annual Meeting, Denver.

**Hammond AS, Ning J, Ward CV, Ravosa MJ.** 2009. "Mammalian limb loading and chondral modeling during ontogeny". American Association of Physical Anthropologists.

**Hammond AS.** 2009. "Modeling the Body in 3D Virtual Space". The Body Project Conference, Univ of MO.

**Hammond AS, Ning J, Ward CV, Ravosa MJ.** 2009. "Impacts of endurance exercise on chondral modeling during growth". University of Missouri Life Science Week.

**Jašarević, E., Ning, J., Menegaz, R.A., Johnson, J.J., Stack, M.S. & Ravosa, M.J.** "Masticatory loading, function and plasticity of the mammalian circumorbital region". American Association of Physical Anthropology (Chicago) (oral presentation).

**Jašarević, E., Ning, J., Menegaz, R.A., Johnson, J.J., Stack, M.S. & Ravosa, M.J.** "Masticatory loading, function and plasticity of the mammalian circumorbital region". University of Missouri Life Science Week.

**Johnson, J.J., Ghosh, S., Koblinski, J., Liu, Y.Y., Ericsson, A., Davis, J.W., Shi, Z., Frazier, S., Ravosa, M.J., Crawford S. & Stack, M.S.** "Evaluating the link between uPAR overexpression, Nf-kB activation, and invasive OSCC". University of Missouri Life Science Week.

**Menegaz RA, Sublett SV, Figueroa SD, Hoffman TJ, Ravosa MJ, Aldridge K** (2009) "Evidence for the influence of diet on cranial form and robusticity". American Association of Physical Anthropologists (oral presentation).

**Menegaz RA, Sublett SV, Figueroa SD, Hoffman TJ, Ravosa MJ, Aldridge K** (2009) "Evidence for the influence of diet on cranial form and robusticity". American Association of Physical Anthropologists.

**Pope KK, Christ SE, Moffitt AJ, Peck D, Aldridge K** (2009) "*Effects of metabolic disorder on cerebellar development and morphology*". American Association of Physical Anthropologists.

**Ravosa MJ** (2009) "*Masticatory stress and the functional genomics of the TMJ articular disc in mammals*". For Symposium: *Standing at the Crossroads: The Genetics of Morphology*. American Association of Physical Anthropology/American Association of Anthropological Genetics (Chicago) (**oral presentation**).

**Richtsmeier JT, Jabs EW, Percival C, Hill CA, Wang YL, Xiao R, Aldridge K** (2009) "*Developmental basis of morphological integration of brain and skull in craniosynostosis*". American Association of Physical Anthropologists.

**Shi Z, Johnson JJ, Liu Y, Stack MS** (2009) "*Functional alteration of oral cancer cell aggressive behavior via uPAR-associated changes in cellular microRNA profiles*". American Association for Cancer Research 100<sup>th</sup> Annual Meeting, Denver.