



Paul Mozdziak



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Cellular and Molecular Mechanisms of Avian Muscle Growth and Fiber Adaption

Research emphasis:

Focus is on the cellular and molecular mechanisms governing skeletal muscle growth and muscle fiber adaptation in avian species. I also actively collaborate with the Petite laboratory in the area of avian primordial germ cell biology

Application:

- Cellular Agriculture
- In Vitro Meat Production
- Avian Species Conservation
- Muscle Performance

Collaboration potential:

- Muscle Biology
- Satellite Cells
- Avian Species Conservation
- International Programs

Selected publications:

Mozdziak, P.E., S. Borwornpinyo, D.W. McCoy and J.N. Petite. 2003. Development of transgenic chickens expressing bacterial beta-galactosidase. *Dev Dyn* 226:439-445.

Giamario, C., J. N. Petite, and P. E. Mozdziak. 2003. Hatchability of chicken embryos following somite manipulation. *Biotechniques* 34: 1128-1130.

Mozdziak, P.E., J.J. Dibner and D.W. McCoy. 2003. Glyceraldehyde-3-phosphate dehydrogenase expression varies with age and nutrition status. *Nutrition* 19: 438-440.

Mozdziak, P. E., T. J. Walsh, and D. W. McCoy, 2002. The effect of early posthatch nutrition on satellite cell mitotic activity. *Poult. Sci.* (In Press).

Mozdziak, P. E., J. J. Evans, and D. W. McCoy, 2002. Early posthatch starvation induces myonuclear apoptosis in chickens. *J. Nutr.* 132: 901-903.