

## Scientific Publications Resulting from Texas Tech's Chernobyl Research

### 2013

Howell, E. K., S. P. Gaschak, K. D. W. Griffith, and B. E. Rodgers. 2014. Radioadaptive response following in utero low-dose irradiation. *Radiation Research* 179(1):29-37.

### 2011

Baker, R.J. and J.K. Wickliffe. 2011. Wildlife and Chernobyl: The scientific evidence for minimal impacts. *Bulletin of the Atomic Scientist*. 14 April 2011. Web Edition.

Howell, E. K., S. P. Gaschak, K. D. W. Griffith, and B. E. Rodgers. 2011. The effects of chronic low-dose irradiation on tolerance to chemotherapeutic agents. *Environmental Toxicology & Chemistry* 30(3):640-649.

Wickliffe, J.K., and R.J. Baker. 2011. Clarification and explanation of experimental design and mechanistic dose-response effects for significant radioecological impacts. *Biology Letters Online*. ISSN: 1744-957X

### 2009

Meeks, H. N., R. K. Chesser, B. E. Rodgers, S. P. Gaschak, and R. J. Baker. 2009. Understanding the genetic consequences of environmental toxicant exposure: Chernobyl as a model system. *Environmental Toxicology and Chemistry* 28(9):1982-1994.

### 2008

Chesser, R. K., and B. E. Rodgers. 2008. Near-field radioactive particle dynamics and empirical fallout patterns in Chernobyl's western and northern plumes. *Atmospheric Environment* 42:5124-5139.

Rodgers, B. E., and K. M. Holmes. 2008. Radio-adaptive response to environmental exposures at Chernobyl. *Dose Response* 6(2):209-221.

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Hoofer, S. R., S. Gaschak, Y. Dunina-Barkovskaya, J. Makluk, H. N. Meeks, J. K. Wickliffe, and R. J. Baker. 2007. New information for systematics, taxonomy, and phylogeography of the rodent genus *Apodemus* (*Sylvaemus*) in Ukraine. *Journal of Mammalogy* 88:330-342.

Meeks, H. N., J. K. Wickliffe, S. R. Hoofer, R. K. Chesser, B. E. Rodgers, and R. J. Baker. 2007. Mitochondrial control region variation in bank voles (*Clethrionomys glareolus*) is not related to Chernobyl radiation exposure. *Environmental Toxicology and Chemistry* 26: 361-369.

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Baker, R. J. 2006. Review of: *Wormwood Forest: a Natural History of Chernobyl* by Mary Mycio. Joseph Henry Press, Washington, D.C. *Bulletin of the Atomic Scientist* Jan/Feb 2006:59-61.

Chesser, R. K. 2006. The 20-year legacy of Chernobyl. *Congressional Record*. [Testimony before a U.S. Congressional Hearing]. 20 pp, 27 April 27 2006.

Chesser, R. K., and R. J. Baker. 2006. Growing up with Chernobyl. *American Scientist* 94(6):542-549.

Wickliffe, J. K., Y. V. Dunina-Barkovskaya, S. P. Gaschak, B. E. Rodgers, R. K. Chesser, M. Bondarkov, and R. J. Baker. 2006. Variation in the mitochondrial DNA control region haplotypes in populations of the bank vole, *Clethrionomys glareolus*, living in the Chernobyl environment, Ukraine. *Environmental Toxicology and Chemistry* 25:503-508.

## 2005

Bickham, A., and R. K. Chesser. 2005. *Chernobyl*. Pp. 533-534 in: *Encyclopedia of Toxicology*, 2nd Ed., Elsevier.

Bondarkov, M. D., S. P. Gaschak, J. A. Goryanaya, A. M. Maximenko, R. K. Chesser, and R. J. Baker. 2005. Radionuclides accumulation and dose burden in small mammals in Chornobyl zone. Pp. 237-241 in: *Contributed Papers of International Conference on the Protection of the Environment from the Effects of Ionizing Radiation*. 6-10 October 2003, Stockholm, Sweden. IAEA-CN-109/100.

## 2004

Chesser, R. K., M. Bondarkov, R. J. Baker, J. K. Wickliffe, and B. E. Rodgers. 2004. Reconstruction of radioactive plume characteristics along Chernobyl's Western Trace. *Journal of Environmental Radioactivity* 71:147-157.

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Bondarkov, M. D., S. P. Gaschak, Y. A. Ivanov, A. M. Maximenko, A. N. Ryabushkin, V. A. Zheltonozhsky, M. V. Zheltonozhskaya, L. V. Sadovnikov, R. K. Chesser, B. E. Rodgers, R. J. Baker. 2003. Comparative analysis of migration parameters for radioactive isotopes in the Red Forest soil. C. 236—237 Тези доповідей VI Конференції Міжнародного Чорнобильського Центру "2003: Міжнародне співробітництво — Чорнобилю. 9-12 вересня 2003, Славутич, Україна".

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Wickliffe, J. K., A. M. Bickham, B. E. Rodgers, R. K. Chesser, C. J. Phillips, S. P. Gaschak, J. A. Goryanaya, I. Chizhevsky, and R. J. Baker. 2003. Exposure to chronic low-dose radiation at Chornobyl does not induce point mutations in Big Blue mice. *Environmental and Molecular Mutagenesis* 42:11-18.

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Wickliffe, J. K., R. K. Chesser, B. E. Rodgers, and R. J. Baker. 2002. Assessing the genotoxicity of chronic environmental irradiation by using mitochondrial DNA heteroplasmy in the bank vole (*Clethrionomys glareolus*) at Chernobyl, Ukraine. *Environmental Toxicology and Chemistry* 21(6):1249-1254.

Wiggins, L. E., R. A. Van Den Bussche, M. J. Hamilton, R. K. Chesser, and R. J. Baker. 2002. Utility of chromosomal position of heterochromatin as a biomarker of radiation-induced genetic damage: a study of Chernobyl voles. *Ecotoxicology* 11:147-154.

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