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- Ph.D., University Of Wisconsin At Madison, 1976

**Representative Publications**

1. RA Waterland, RL Jirtle. "Transposable elements: targets for early nutritional effects on epigenetic gene regulation.." *Molecular and cellular biology, United States* 23.15 (August, 2003): 5293-300. [\[abs\]](#)
2. SK Murphy, RL Jirtle. "Imprinting evolution and the price of silence.." *BioEssays : news and reviews in molecular, cellular and developmental biology, United States* 25.6 (June, 2003): 577-88. [\[abs\]](#)
3. TA Jamieson, DM Brizel, JK Killian, Y Oka, HS Jang, X Fu, RW Clough, RT Vollmer, MS Anscher, RL Jirtle. "M6P/IGF2R loss of heterozygosity in head and neck cancer associated with poor patient prognosis.." *BMC cancer, England* 3 (February, 2003): 4. [\[abs\]](#)
4. AA Wylie, DJ Pulford, AJ McVie-Wylie, RA Waterland, HK Evans, YT Chen, CM Nolan, TC Orton, RL Jirtle. "Tissue-specific inactivation of murine M6P/IGF2R.." *The American journal of pathology, United States* 162.1 (January, 2003): 321-8. [\[abs\]](#)
5. BA Freking, SK Murphy, AA Wylie, SJ Rhodes, JW Keele, KA Leymaster, RL Jirtle, TP Smith. "Identification of the single base change causing the callipyge muscle hypertrophy phenotype, the only known example of polar overdominance in mammals.." *Genome research, United States* 12.10 (October, 2002): 1496-506. [\[abs\]](#)
6. JK Killian, CM Nolan, AA Wylie, T Li, TH Vu, AR Hoffman, RL Jirtle. "Divergent evolution in M6P/IGF2R imprinting from the Jurassic to the Quaternary.." *Human molecular genetics, England* 10.17 (August, 2001): 1721-8. [\[abs\]](#)
7. JK Killian, TR Buckley, N Stewart, BL Munday, RL Jirtle. "Marsupials and Eutherians reunited: genetic evidence for the Theria hypothesis of mammalian evolution.." *Mammalian genome : official journal of the International Mammalian Genome Society, United States* 12.7 (July, 2001): 513-7. [\[abs\]](#)
8. SK Murphy, AA Wylie, RL Jirtle. "Imprinting of PEG3, the human homologue of a mouse gene involved in nurturing behavior.." *Genomics, United States* 71.1 (January, 2001): 110-7. [\[abs\]](#)

9. AA Wylie, SK Murphy, TC Orton, RL Jirtle. "Novel imprinted DLK1/GTL2 domain on human chromosome 14 contains motifs that mimic those implicated in IGF2/H19 regulation.." *Genome research, UNITED STATES* 10.11 (November, 2000): 1711-8. [\[abs\]](#)
10. JK Killian, JC Byrd, JV Jirtle, BL Munday, MK Stoskopf, RG MacDonald, RL Jirtle. "M6P/IGF2R imprinting evolution in mammals.." *Molecular cell, UNITED STATES* 5.4 (April, 2000): 707-16. [\[abs\]](#)
11. T Yamada, AT De Souza, S Finkelstein, RL Jirtle. "Loss of the gene encoding mannose 6-phosphate/insulin-like growth factor II receptor is an early event in liver carcinogenesis.." *Proceedings of the National Academy of Sciences of the United States of America, UNITED STATES* 94.19 (September, 1997): 10351-5. [\[abs\]](#)
12. AT De Souza, GR Hankins, MK Washington, TC Orton, RL Jirtle. "M6P/IGF2R gene is mutated in human hepatocellular carcinomas with loss of heterozygosity.." *Nature genetics, UNITED STATES* 11.4 (December, 1995): 447-9. [\[abs\]](#)