

Wansheng Liu: Vita

Monday, February 22, 2010 Page 1 of 8

Section Name	EDUCATION:
Person ID	349
Content	<p>B.S., 1982, Animal Science, Northwest Agricultural University, China.</p> <p>M.S., 1987, Animal Breeding and Genetics, Northwest Agricultural University, China.</p> <p>Ph.D., 1993, Animal Breeding and Genetics, Northwest Agricultural University, China.</p> <p>Post-Doctorate, 1996-1999, Department of Genetics, Uppsala University, Sweden.</p> <p>Post-Doctorate, 1999-2003, Department of Animal Science, University of Minnesota.</p>
Last Modified	3/3/2008

Section Name	HONORS & AWARDS:
Person ID	349
Content	<p>Distinguished Teacher, Awarded by the Ministry of Agriculture, P.R. China (1991).</p> <p>Extraordinary Teacher, Awarded by the Northwest Agricultural University (NWAU) (1989-1991).</p> <p>Outstanding Young Teacher, Awarded by the Educational Committee in the People's Government of Shaanxi Province (1991).</p> <p>Outstanding Ph.D., Awarded by the Northwest Agricultural University (1992).</p> <p>Outstanding Chinese M.S., Awarded by the Northwest Agricultural University (1991)</p>
Last Modified	3/3/2008

Section Name	PROFESSIONAL EXPERIENCE:
Person ID	349
Content	<p>Associate Professor (2007-present): Department of Dairy and Animal Science, Pennsylvania State University.</p> <p>Associate Research Professor (2003-2007): Department of Animal Biotechnology, University of Nevada, Reno.</p> <p>Research Associate (1999-2003): Department of Animal Science, University of Minnesota.</p> <p>Researcher & Research Associate (1997-1999), Department of Genetics, Uppsala University, Sweden. Department of Cell and Molecular Biology (CMB), Medical Nobel Institute, Karolinska Institute, Stockholm, Sweden. Department of Medicine, University of California, San Francisco (UCSF).</p> <p>Visiting Scholar (1995-1996): Department of Animal Breeding and Genetics, Swedish University of Agricultural Sciences, Uppsala, Sweden.</p> <p>Associate Professor (1994-1996), Institute of Developmental Biology, Department of Biology, Shandong University, Jinan, Shandong, China.</p> <p>Associate Professor (1992-1993): Department of Animal Science, Northwest Agricultural University, Shaanxi, China.</p> <p>Lecturer (1987-1991): Department of Animal Science, Northwest Agricultural University, Shaanxi, China.</p> <p>Assistant Professor (1982-1986): Department of Animal Science, Northwest Agricultural University, Shaanxi, China.</p>
Last Modified	3/3/2008

Colletti, E.J., Airey, J.A., Liu, W.-S., Zanjani, E.D., Porada, C.D., Almeida-Porada, G. (2008) Generation of tissue-specific cells by MSC does not require fusion or donor to host mitochondrial/membrane transfer. *Stem Cell Research*. Available online September 16, 2008 (In press).

Liu, W.-S., Yasue, H., Eyer, K., Hiraiwa, H., Shimogiri, T., Roelofs, B., Landrito, E., Ekstrand, J. Treat, M., Paes, N., Lemos, M., Griffith, A.C., Davis, D.L., Meyers, S.N., Yerle, M., Milan, D., Beever, J.E., Schook, L.B., Beattie, C.W. (2008) High-resolution comprehensive radiation hybrid maps of the porcine chromosome 2p and 9p compared with the human chromosome 11. *Cytogenetic and Genome Research* 120 (1-2), 157-163.

Wang, A.-H., Yasue, H., Li, L., Tagashima, M., Ponce de León, F.A., Liu, W.-S. (2008) Molecular characterization of the bovine chromodomain Y-like (CDYL) genes. *Animal Genetics* 39, 207-216.

Guo, H., Liu, W.-S., Takasuga, A., Eyer, K., Landrito, E., Xu, S.-Z., Gao, X., Ren, H.-Y. (2008) Mapping and association of GAD2 and GIP gene variants with feed intake and carcass traits in beef cattle. *Arch. Tierz., Dummerstorf* 51 (1), 33-41.

Guo, H., Liu, W.-S., Takasuga, A., Eyer, K., Landrito, E., Xu, S.-Z., Gao, X., Ren, H.-Y. (2008) Mapping, expression, and association study of the bovine PSMC1 gene. *Biochemical Genetics* 46, DOI 10.1007/s10528-008-9151-0.

Liu, W.-S., Wang, A., Uno, Y., Galtz, D., Beattie, C.W., Ponce de León, F.A. (2007) Genomic structure and transcript variants of the bovine DAZL gene. *Cytogenetic and Genome Research* 116 (1-2), 65-71.

Liu, W.-S., Ponce de León, F.A. (2007) Mapping of the Bovine Y Chromosome. *Electronic Journal of Biology* 3 (1), 5-12.

Guo, H., Liu, W.-S., Takasuga, A., Eyer, K., Landrito, E., Xu, S.-Z., Gao, X., Ren, H.-Y. (2007) Characterization and mapping of the bovine FBP1 gene. *Asian-Australasian Journal of Animal Sciences* 20(9), 1319-1326.

Rink, A., Eyer, K., Roelofs, B., Sharkey-Brockmeier, K.J., Lekhong, S., Karajusuf, E.K., Bang, J., Yerle, M., Milan, D., Liu, W.-S., Beattie, C.W. (2006) A radiation hybrid map of the porcine genome comprising 2035 EST loci. *Mamm. Genome* 17 (8), 878-885.

Guo, H., Liu, W.-S., Takasuga, A., Eyer, K., Landrito, E., Xu, S.-Z., Gao, X., Ren, H.-Y. (2006) Mapping of the CCK, PSMC2, PSMC4, PSMD1, CPB1 and PSPH genes in cattle. *Animal Genetics* 37 (1), 73-75.

Guo, H., Li, K., Liu, W.-S., Li, H.-D., Xu, S.-Z., Ren, H.-Y., Gao, X. (2006) An isolation, polymorphism and trait association study of bovine GAD1 and GAL genes. *South African Journal of Animal Science* 36 (4), 269-274.

Ponce de Leon, F.A. Liu, W.-S., Carpio, C. M. (2006) Understanding the organization of BTAY and male fertility genes. *Chromosome Research* 14, 219.

Liu, W.-S., Eyer, K., Yasue, H., Roelofs, B., Hiraiwa, H., Shimogiri, T., Landrito, E., Ekstrand, J. Treat, M., Rink, A., Yerle, M., Milan, D., Beattie, C.W. (2005) A 12,000-rad porcine radiation hybrid (IMNpRH2) panel refines the conserved synteny between SSC12 and HSA17. *Genomics* 86 (6), 731-738.

- Sugimoto, Y., Ponce de León, F.A., Beattie, C. W. (2005) Characterization and RH mapping of microsatellites generated from a microdissected BTA20-specific DNA library. *Animal Genetics* 36 (2), 146-151.
- Porada, C.D., Park, P.J., Almeida-Porada, G., Liu, W.-S., Ozturk, F., Glimp, H.A., Zanjani, E.D. (2005) Gestational age of recipient determines pattern and level of transgene expression following in utero retroviral gene transfer. *Molecular Therapy* 11(2), 284-293.
- Liu, W.-S., Ponce de León, F.A. (2004) Assignment of SRY, ANT3 and CSF2RA to the bovine Y-chromosome by FISH and RH mapping. *Animal Biotechnology* 15, 103-109.
- Liu, W.-S., Beattie, C. W., Ponce de León, F.A. (2003) Bovine Y chromosome microsatellite polymorphisms. *Cytogenetics and Genome Research* 102, 53-58.
- Liu, W.-S., Mariani, P., Beattie, C. W., Alexander, L., Ponce de León, F.A. (2002) A radiation hybrid map for the bovine Y chromosome. *Mamm.Genome* 13, 320-326.
- Liu, W.-S., Nordqvist, K., Lau Y-F.C. and Fredga, K. (2001) Characterization of the Xp21-23 region in the wood lemming, a region involved in XY sex reversal. *J. Exp Zool (Mol Dev Evol)* 290, 551-557.
- Liu, W.-S., Fredga, K. (1999) Telomeric (TTAGGG)_n sequences are associated with nucleolus organizer regions (NORs) in the wood lemming. *Chromosome Research* 7, 235-240.
- Liu, W.-S., Eriksson, L. and Fredga, K. (1998) XY sex reversal is associated with deletion of Xp21-23 in the wood lemming as revealed by chromosome microdissection and FISH. *Chromosome Research* 6, 379-383.
- Liu, W.-S., Harbitz, I., Gustavsson, I. and Chowdhary, B. P. (1998) Mapping of the pig Erythropoietin gene to chromosome 3p15-p16 and ordering of four subclones by fiber-FISH and DNA-combing. *Hereditas* 128(1), 77-81.
- Liu, W.-S., Soldatov, N. M., Gustavsson, I. and Chowdhary, B. P. (1998) Fiber-FISH analysis of the 3'-terminal region of the human L-type Ca²⁺ channel γ 1C subunit gene. *Hereditas* 129(2), 169-175.
- Liu, W.-S., Lu, X.Z. and Qiu, H. (1995) Number and distribution of silver-staining nucleolar organizer regions and evolutionary relationships in domestic pigs. *Animal Genetics* 26, 293-298.
- Liu, W.-S. (1995) Development and characterisation of pig-mouse somatic hybrid cell lines. Shandong University, China. (Chinese)
- Liu, W.-S. (1995) Cell-type, chromosome-type and their relationship with population cytogenetics. *J. Shandong University, Nat. Sci. Edition* 30(1), 112-120. (Chinese)
- Liu, W.-S. and Liu, E.E. (1993) A study on porcine lymphocyte cell cycle. *Acta Veterinaria et Zootechnica Sinica* 24(2), 143-147. (Chinese)
- Liu, W.-S., Lu, X.Z. and Liu, X.D. (1992) A study on the genetic pattern of Ag-NORs in swine. *Acta Univ. Agric. Boreali-occidentalis* 20(3), 11-19. (Chinese)

- Liu, W.-S., Lu, X.Z. and Liu, X.D. (1992) A study on the correlation between Ag-NORs and fattening performance in swine (first report). *Acta Univ. Agric. Boreali-occidentalis* 20(2), 107-109. (Chinese)
- Liu, W.-S., Lu, X.Z., Liu, X.D., Tang, H.B., Zhao, Q., Zhou, Q. L. and Ding, Q.W. (1992) Effects of β -agonist and steroid hormone on chromosome aberration in finishing pigs. *Hereditas (Beijing)* 14(3), 26-28. (Chinese)
- Ma, J.G. and Liu, W.-S. (1992) Restriction fragment length polymorphisms (RFLPs) and the genetic improvement in animals. *J. Yellow Cattle Sci.* 18(2), 8-10. (Chinese)
- Liu, W.-S. (1990) Studies on the chromosomes of wild pigs (review). *J. Anim. & Vet. Sci.* (3), 32-34. (Chinese)
- Liu, W.-S. and Lu, X.Z. (1990) Four hundred and twenty-band idiogram of G-banded chromosomes of the domestic pigs (*Sus scrofa domestica*). *Acta Veterinaria et Zootechnica Sinica* 21(1), 36-40. (Chinese)
- Liu, W.-S., Lu, X.Z. and Liu, X.D. (1990) Association of Ag-NOR chromosomes in the domestic pigs. *Hereditas (Beijing)* 12(2), 17-19. (Chinese)
- Liu, W.-S., Lu, X.Z., Liu, X.D. and Shen, Y.F. (1990) The milkability in Guanzhong Black and Bamei sows. *Acta Univ. Agric. Boreali-occidentalis* 18(3), 51-56. (Chinese)
- Liu, W.-S., Lu, X.Z. and Liu, X.D. (1989) A new reciprocal translocation (7q-; 9q+) in domestic pigs. *Hereditas (Beijing)* 11(3), 28. (Chinese)
- Liu, W.-S., Lu, X.Z. and Liu, X.D. (1989) Q-, G- and C-band polymorphism in swine (*Sus scrofa domestica*). *Acta Univ. Agric. Boreali-occidentalis* 17(3), 50-54. (Chinese)
- Liu, W.-S., Lu, X.Z. and Liu, X.D. (1989) Studies on the polymorphism of Ag-NORs of several pig breeds in the area of Northwestern China. *Acta Veterinaria et Zootechnica Sinica* 20(3), 209-214. (Chinese)
- Zhan, T.S., Yuan, Z.F. and Liu, W.-S. (1989) Ag-NORs and evolutionary relationship in the breeds of domestic pigs. *Acta Veterinaria et Zootechnica Sinica* 20(1), 1-5. (Chinese)
- Liu, W.-S. and Lu, X.Z. (1988) Bioengineering and conventional breeding in pigs. *J. Anim. & Vet. Sci.* (4), 20-23. (Chinese)
- Liu, W.-S., Lu, X.Z., Liu, X.D. and Zhan, T.S. (1988) A study on the chromosomal Q-banding of the domestic pigs (*Sus scrofa domestica*). *Acta Univ. Agric. Boreali-occidentalis* 16(1), 1-5. (Chinese)
- Liu, W.-S. and Lu, X.Z. (1987) Progresses of porcine chromosome studies. *J. Anim. & Vet. Sci. in Gansu* (4), 24-27. (Chinese)
- Liu, X.D., Lu, X.Z., Shen, Y.F., Liu, W.-S. (1984) A study on cross combination of two breeds of the bacon-type pigs. *Acta Univ. Agric. Boreali-occidentalis* (21), 40-50. (Chinese)

Section Name	RESEARCH INTERESTS:
Person ID	349
Content	<p>My research interests are in the areas of animal genetics, structural, functional and comparative genomics, mammalian Y-chromosome and male fertility. My current research projects are:</p> <ul style="list-style-type: none">• Functional characterization of the bovine Y-chromosome (BTAY), with a focus on Y gene polymorphisms (haplotype) and male fertility;• Development of a high-resolution radiation hybrid (RH) map for the swine genome using a 12,000-rad whole genome pig-Chinese hamster RH panel;• Molecular mechanism involved in controlling placental efficiency in sheep
Last Editor	
Last Modified	3/3/2008