

**BIOGRAPHICAL SKETCH**  
**KYUNG SEOK KIM**

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**(a) Professional Preparation**

Kyungpook National University, Korea	Biology	B.S. (1991)
Kyungpook National University, Korea	Genetics	M.S. (1993)
Kyungpook National University, Korea	Genetics	Ph.D. (1998)
USDA-ARS, Ames, Iowa	Genetics	Post Doc. (2002 – 2008)

**(b) Appointments**

- 2017 - Present **Research Scientist**, Department of Natural Resource Ecology & Management, Iowa State University, Ames, IA
- 2015 - 2017 **Adjunct Assistant Professor**, Department of Ecology, Evolution, and Organismal Biology, Iowa State University, Ames, IA
- 2012 - 2015 **Research Associate**, USDA-ARS, Ames, IA
- 2008 - 2015 **Research Professor**, Seoul National University, Seoul, Korea

**(c) Products**

*(i) Related Publications*

- Kyung Seok Kim**, and Kevin Roe (2020) Genome-wide SNPs redefines species boundaries and conservation units in the freshwater mussel genus *Cyprogenia* of North America. Submitted to *Scientific Reports* (in press)
- Liang fan, He Jianhua, ma haiming, Jiang Jun, He Jun, Han Ling, Huifang Liu, Shengguo Tang, Duan Ye, Yin Yulong, zeng Qinghua, li biao, gong yan, Yi Jiacheng, Xinglong He, zeng yongbo, **Kim Kyung-Seok**, Zonggang Yu, Kang Xu (2021) Long-read assembly of the Chinese indigenous Ningxiang pig genome and identification of genetic variations for fat metabolism in breeds. *Molecular Ecology Resources*. (in press)
- Demin Rao, Fangang Meng, Xiaoyan Yan, Minghao Zhang, Xingdong Yao, **Kyung Seok Kim**, Jing Zhao, Qiang Qiu, Futi Xie, Wei Zhang, (2021) Changes in soil microbial activity, bacterial community composition and function in a long-term continuous soybean cropping system after corn insertion and fertilization, *Frontiers in Microbiology*. (in press)
- Wang Y., **Kim K. S.**, Qiyun Li, et al. 2020. Influence of voltine ecotype divergence on genetic and haplotype variation in the Asian corn borer. *Ecology and Evolution*.  
DOI: 10.22541/au.160155034.41624203
- Kang, I.J., Shim H.K., Heu S., and **K. S. Kim**. 2020. First Report of Soybean Root and Stem Rot Caused by *Fusarium graminearum* in South Korea. *Plant disease* v.104 no.2 pp. 568  
<https://doi.org/10.1094/PDIS-07-19-1504-PDN>.
- Coates, B. S., Kozak, G., **Kim K. S.**, Sun, J., Wang, Y. Z., Fleischer, S., Dopman, E. B., and T. W. Sappington. 2019. Influence of host plant, geography and pheromone strain on genomic differentiation in sympatric populations of *Ostrinia nubilalis*. *Molecular Ecology* 28(19): 4439-4452.
- Cui, J., Li, T., Wang, C., **Kim, K. S.**, Wang, T., and S. Liu. 2018. Characteristics of Rhizosphere Bacterial Community across Different Cultivation Years in Saline-alkaline Paddy Soils of Songnen Plain of China. *Canadian Journal of Microbiology* 64: 925-936.
- Nam, H. Y., **Kim K. S.**, and J. H. Lee. 2018. Population genetic structure and putative migration pathway of *Sogatella furcifera* (Horváth) (Hemiptera, Delphacidae) in Asia. *Bulletin of Entomological Research* 10: 1-10.

- Wang, Y., **Kim, K. S.**, Guo, W., Li, Q., Zhang, Y., Wang, Z., and B. S. Coates. 2017. Introgression between divergent corn borer species in a region of sympatry: implications on the evolution and adaptation of pest arthropods. *Molecular Ecology* doi: 10.1111/mec.14387
- Nam, H. Y., Coates, B. S., **Kim, K. S.**, Park, M., and J. H. Lee. 2015. Characterization of 12 Novel Microsatellite Markers of *Sogatella furcifera* (Hemiptera: Delphacidae) Identified From Next-Generation Sequence Data. *J. Insect Sci.* 15(1): 94; DOI: 10.1093/jisesa/iev069
- Li, J., Coates, B. S., **Kim, K. S.**, Bourguet, D., Ponsard, S., He, K., and Z. Wang. 2014. The Genetic Structure of Asian Corn Borer, *Ostrinia furnacalis*, Populations in China: Haplotype Variance in Northern Populations and Potential Impact on Management of Resistance to Transgenic Maize. *Journal of Heredity* 105(5): 642-655.
- Brad S.C., Johnson H., **Kim, K. S.**, Hellmich R. L., Abel C.A., Mason C. and T. W. Sappington. 2013. Frequency of hybridization between *Ostrinia nubilalis* E-and Z-pheromone races in regions of sympatry within the United States. *Ecology and Evolution* Aug 24. 3(8): 2459–2470.
- Park, M., **Kim, K. S.**, and J.H. Lee (2013) Genetic structure of *Lycorma delicatula* (Hemiptera: Fulgoridae) populations in Korea: Implication for invasion Process in Heterogeneous Landscape. *Bulletin of Entomological Research*. Aug 8. 103(4): 414-424.
- Kim, K. S.**, and T.W. Sappington (2013) Population genetics strategies to characterize long-distance dispersal of insects. *Journal of Asia-Pacific Entomology* March 16: 87-97.
- (ii) *Other Publications*
- Choi Sung Kyoung, **Kim, K. S.**, Nickolay Markov, Elmar Babaev, Yu. I. Rozhkov, Inna Voloshina, Damingiin Bayarlkhagva, Jong-Ryol Chong, Mi-Sook Min, Hang Lee. 2020. Asia-wide phylogeography of wild boar (*Sus scrofa*) based on mitochondrial DNA and Y-chromosome. *PLOS ONE* <https://doi.org/10.1371/journal.pone.0238049>.
- Hong Y., Hang L., **Kim, K. S.**, and M.S. Min. 2020. Phylogenetic relationships between different raccoon dog (*Nyctereutes procyonoides*) populations based on four nuclear and Y genes. *Genes & Genomics* (July) 42:1075–1085.
- Hyun J.Y., Cho J.H., Min M.S., **Kim K.S.**, and L. Hang. 2020. Phylogenetic study of extirpated Korean leopard using mitochondrial DNA from an old skin specimen in South Korea. *PeerJ*. 8:e8900 <https://doi.org/10.7717/peerj.8900>.
- Wu, R.W., **Kim K.S.**, Xie G.L., Ouyang S. and X.P. Wu. 2020. Phylogenetic position of *Aculamprotula polysticta*, comb. res. (Bivalvia : Unionidae) inferred from phylogenetic relationships in Unionida. *Invertebrate Systematics* (March) 34(2): 192-199 <https://doi.org/10.1071/IS19036>.
- Park, H-C., Kurihara, N., **Kim, K. S.**, Min, M-S, Han, S-Y., Lee, H., and J. Kimura. 2019. What is the Taxonomic Status of East Asian Otter species based on Molecular Evidence?: Focus on the Position of the Japanese Otter Holotype Specimen from Museum. *Animal Cells and Systems* 23(3): 228-234.
- Hong, Y-J., **Kim, K. S.**, Kimura, J., Kauhala, K., Voloshina, I., Goncharuk, M. S., Yu, L., Zhang, Y. P., Sashika, M., Lee, H., and M-S. Min. 2018. Genetic diversity and population structure of East Asian raccoon dog (*Nyctereutes procyonoides*): genetic features in central and peripheral populations. *Zoological Science* 35(3):249-259.
- Hong, Y.J., **Kim, K. S.**, Min, M.S., and H. Lee. 2018. Population structure of the raccoon dog (*Nyctereutes procyonoides*) in South Korea using microsatellite loci analysis: implications on disease management. *Journal of Veterinary Medical Science* 80(10):1631-1638.
- Qian, D., Yang, X, Zhang, J., Zhong, X, **Kim, K. S.**, Yang, J., Xing, G., Li, X., Jiang, Z., Li, Q., Dong, Y., and H. Pan. 2018. Over-expression of the *Pseudomonas syringae* harpin-encoding gene *hrpZm* confers enhanced tolerance to Phytophthora root and stem rot in transgenic soybean. *Transgenic Research*. 27: 277–288.
- Lee, S-J., Lee, M.Y., Lin, L.K., Lin, Y., Li, Y., Shin, E.H., Han, S.H., Min, M.S., Lee, H., and **K.S. Kim**. 2018. Phylogeographic relationship of the Asian lesser white-toothed shrew, *Crociodura shantungensis*, in East Asia; the role of the Korean Peninsula as refugia of small mammals. *Genetica* 146(2): 211-226.

- Lee, Y. S., Markov, N., Argunov, A., Voloshina, I., Bayarlkhagva, D., Min, M-S., Lee, H., and **K. S. Kim**. 2016. Genetic diversity and phylogeography of Siberian roe deer, *Capreolus pygargus*, in central and peripheral populations. *Ecology and Evolution* Oct 6: 7286-7297.
- Lee, Y. S., Markov, N., Voloshina, I., Argunov, A., Bayarlkhagva, D., Oh, J-G., Park, Y-S., Min, M-S., Lee, H., and **K. S. Kim**. 2015. Genetic diversity and genetic structure of the Siberian roe deer (*Capreolus pygargus*) populations from Asia. *BMC Genetics* 16: 100.
- Choi, S.K., Chun, S.W., An, J.H., Lee, M.Y., Kim, H.J., Min, M.S., Kwon, S.W., Choi, T.Y., Lee, H., and **K. S. Kim**. 2015. Genetic diversity and population structure of the long-tailed goral, *Naemorhedus caudatus*, in South Korea. *Genes & Genetic Systems*. 90: 31-41.

#### **(d) Synergistic Activities**

1. Over 25 years researching the population genetics and genomics of wildlife and insect pests.
2. Organized and instructed numerous workshops in the field of population and conservation genetics and Mentoring numerous graduate students at Iowa State University and Seoul University

#### **(e) References**

##### **Thomas W. Sappington, Ph.D.**

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