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Molecular Virology
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Area of Expertise:

- Virology - General
- Molecular virology
- Viral pathogenesis
- Vaccinology

Focus of Research:

- Hepatitis E virus (*Hepevirus* – Chickens)
- Vaccine development (circovirus, porcine reproductive and respiratory syndrome virus - PRSSV, Porcine Epidemic Diarrhea Virus - PEDV, Porcine Coronavirus - PdCoV)

Current Funded Projects - Selected (Source):

- **Meng, X.J. (PI)**, T. LeRoith, F.W. Pierson, L Yuan, A Chicken Model to Study Hepatitis E Virus Pathogenesis, 2013 (5 yr), NIAID / NIH / DHHS, RO1AI050611-Renewal.
- **Meng, X.J., (PI)**, Y. Huang, S. Kenny, T. LeRoith. Mechanism of Hepatitis E Virus Replication and Pathogenesis. 2008 (5 yr + 4 year extension) NIAID / NIH / DHHS.
- **Meng, X.J., (PI)** et al. Development of Next Generation Broadly Protective Marker Vaccines Against Porcine Circovirus Type 2. 2011 (6 yr) Pfizer Animal Health.
- **Meng, X.J., (PI)** et al. Engineering PRRSV Vaccines that Confer Heterologous Protection. 2011 (6 yr) USDA / AFRI.
- **Meng, X.J. (PI)**, et al. Development of Novel Vaccines Against the Emerging Porcine Enteric Coronaviruses in the United States (PEDV and PdCoV). 2014 (3 yr) Eli Lilly and Co (ELANCO Animal Health).
- **Meng, X.J. (PI)**, et al. Development of Piglet Diarrhea Orthoreovirus Vaccines. 2015 (3 yr) Boehringer Ingelheim.
- **Meng, X.J. (PI)**, et al. Broadly-protective Dendritic Cell-Targeting PRSSV Subunit Vaccines 2016 (3 yr) Zoetis, Inc.