Animal Models Working Group: Potential Topics for Discussion (Room 837)

1. Pancreatitis-pancreatic cancer association-what is going on there?
   a. Epidemiologically, risk of cancer increases in individuals with pancreatitis (7-40% depending on study)
   b. However, foci of pancreatitis are present in tissues from subjects with pancreatic cancer from both animal models and human biospecimens
2. Genetics Congress question #5
   a. For complex pancreatic disease **MODELS**, how shall each animal model, cell culture model, omics analysis pipeline, or computational model be defined and associated with complex clinical disease mechanisms?
   b. Upon publication of PF18 review (7/1/19), it is already outdated, particularly with respect to modeling of genetic variants. **I propose we develop guidelines for characterization and publication of a new model.** We can use models that have emerged in the period since PF18 as examples for good and bad characterization (eg. SPINK1 model PMID: 31142585)
   a. Are there recommendations on use of different types of functional evidence of gene variant effects such as predictive models (.e.g polyphen), eQTL, expression studies, protein studies, cell models, animal models, testing in humans (e.g. sweat chloride). If so, what specifics do we agree on?