In my presentation I would like to cover the complexity and heterogeneity of neurodevelopmental disorders at the behavioral/diagnostic, genetic and circuit level using the example of the 16p11.2 deletion syndrome. I will further discuss different model systems and technologies that allow us to gain insight into dysfunction of discrete neuronal cell populations and circuits in this disorder. Introductory literature for the students might include the following:


3. Abrahams BS, Geschwind DH. (2008). Advances in autism genetics: on the threshold of a new neurobiology. Nat Rev Genet. 2008 May;9(5):341-55. doi: This review is somewhat similar to the previous one, however, with a much more detailed emphasis on the various genetic components implicated in autism.