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## Using single-cell genomics to study early development

Gastrulation and the specification of the three germ layers are key events in animal development. However, molecular analyses of these processes have been limited due to the small number of cells present in gastrulating embryos. With recent developments in the field of single-cell biology however, it is now possible to overcome these limitations and to characterize, for the first time at the single-cell level, how cell fate decisions are made.

In this presentation I will discuss data generated to study cell fate specification in mouse, as well as the computational strategies we have developed to model such data. I will then illustrate how these data can provide insight into germ layer specification and early erythropoiesis.