

```
{ bionix ? import (builtins.fetchGit {  
  url = "https://github.com/PapenfussLab/bionix";  
  name = "bionix";  
  rev = "61c558f76638f51518b08b12188c40abdcf5e31c"; }) {}  
, inputs  
, ref ? bionix.ref.grch38.seq}  
  
let  
  preprocess =  
    pipe [  
      (bwa.align { inherit ref; })  
      (samtools.fixmate {})  
      (samtools.sort {})  
      (samtools.markdup {})  
    ];  
in platypus.call {} (map preprocess inputs);
```