Intro

* Background on multiplex images
* Challenges with multiplexing
* Introduce new machine to autoplex
* Introduce dye bleach optimization (other stuff diffusion related)
* Introduce analysis method for guttage (use existing tools, ie tisney)

Methods/Materials/results

* Short description of Auto-CIF and how it works
* Chemical dye bleaching experiment protocol
* Protocols for photosensitizing experiments + duet water
* Prep for guttage slides
* Multiplex protocol used
* Software description (python, pycromanager, Arduino sketch, etc.)
* Image: dye decay curves
* Image: diagram of Auto-CIF
* Image: all cycles in example tissue images
* Dye optimizaztion( antibody inc minimization, chemical rates, photosensitizer, deuterium water).

Discussion

* Model of dye optimatization

Conclusions

Supplementary

* More details about system
* Link github project