

# Galaxy Genome Annotation: Galaxy and GMOD for Annotation, Teaching, and Genomic Databases

Eric Rasche, Björn Grüning, Nathan Dunn, Anthony  
Bretaudeau

June 12, 2017

Galaxy has room to expand into the Genome Annotation space. Needs community, we are that community. Needs tooling, we're building that. Needs integrations, we're building that.

- Björn Grüning
- Eric Rasche
- Anthony Bretaudeau
- Peter van Heusen
- Nathan Dunn
- Eduardo de Paiva Alves
- Suzanna Lewis
- Torsten Seemann
- ...you!

- Small components enhancing integration
- Standalone services augmenting the experience
- Which all build to: Completely pre-configured Galaxy+Apollo deployments with optional Tripal/Chado additions

- Docker Image: Galaxy + Annotation Tools (Apollo Tools, Tripal Admin Tools, Circos, JBrowse, BLAST+, InterProScan, Glimmer, Augustus, FASTA manipulation tools, Spades, Mira, CD-Hit, ClustalW, AntiSmash, mummer, EMBOSS, BLAST, Diamond, Blast2GO)
- Apollo Client library (+parsec equivalent, “Arrow”)
- Dockerized GMOD Deployment (Most GMOD projects pre-configured to work together seamlessly)
- Various Apollo support projects (git-backup, experimental google docs integration)

# Thank you

GGA GitHub [galaxy-genome-annotation.github.io](https://github.com/galaxy-genome-annotation)

This material is based upon work supported by the National Science Foundation under Grant Number  
1565146