

Interactive, shareable plots of GWAS data with LocusZoom

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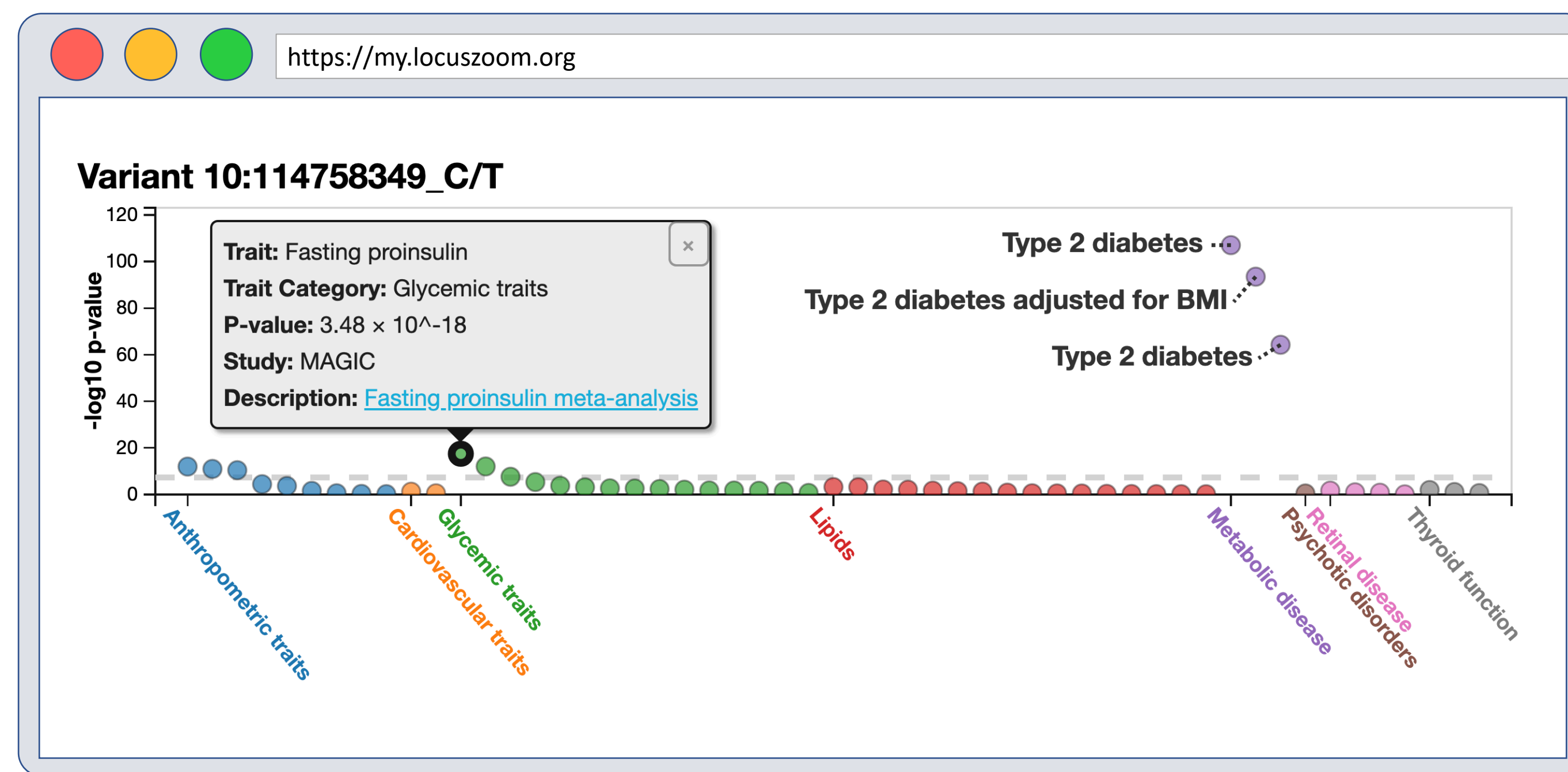
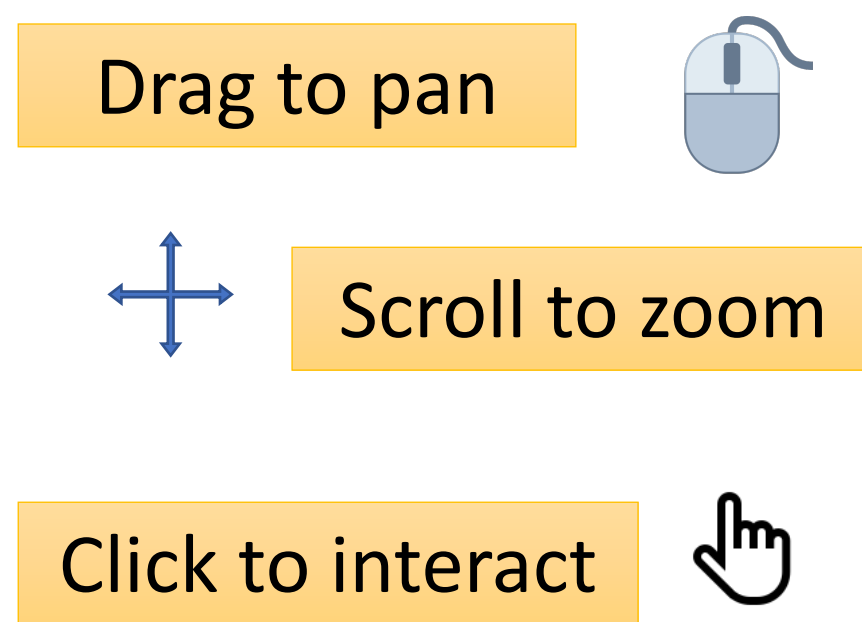
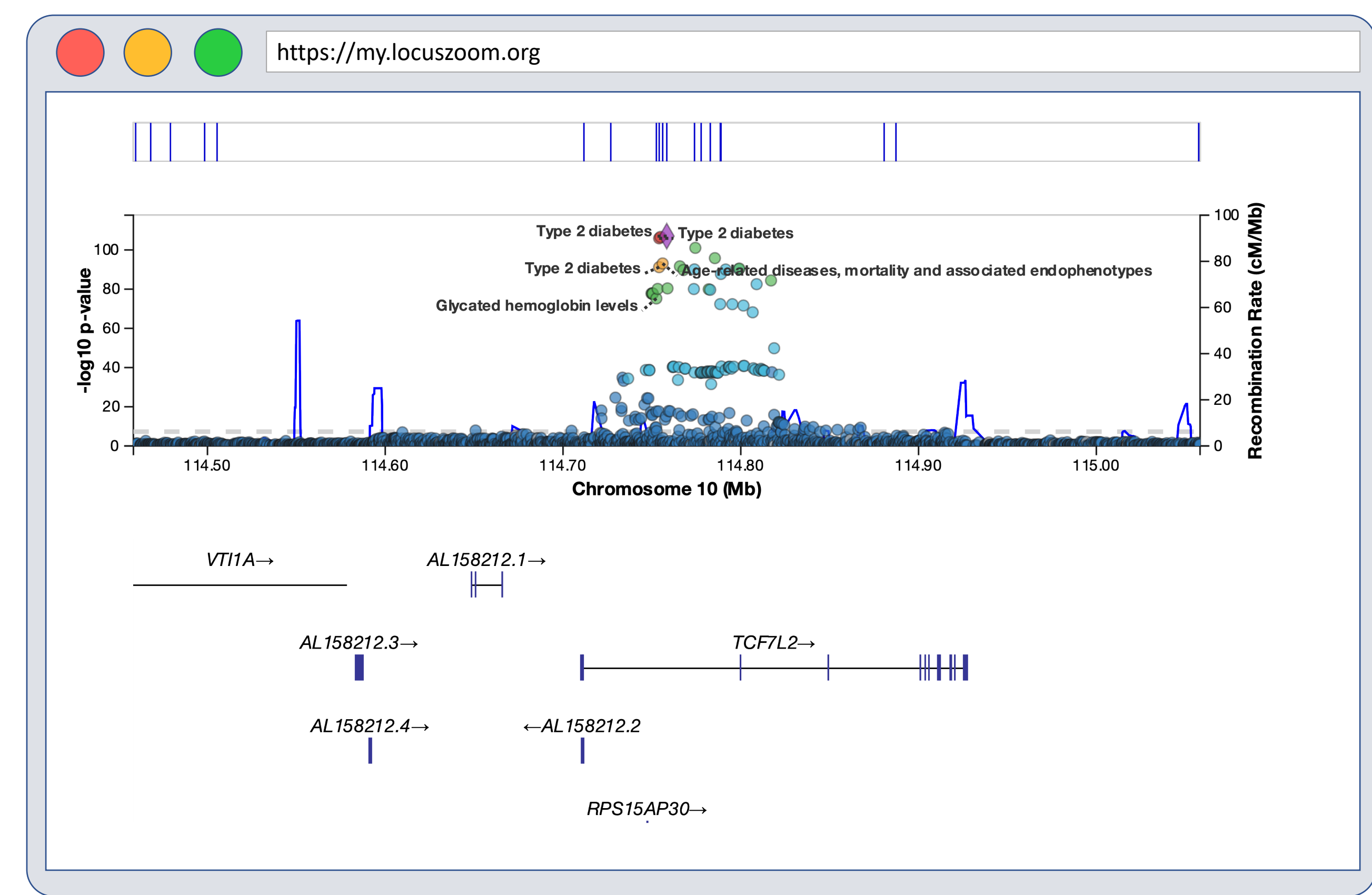
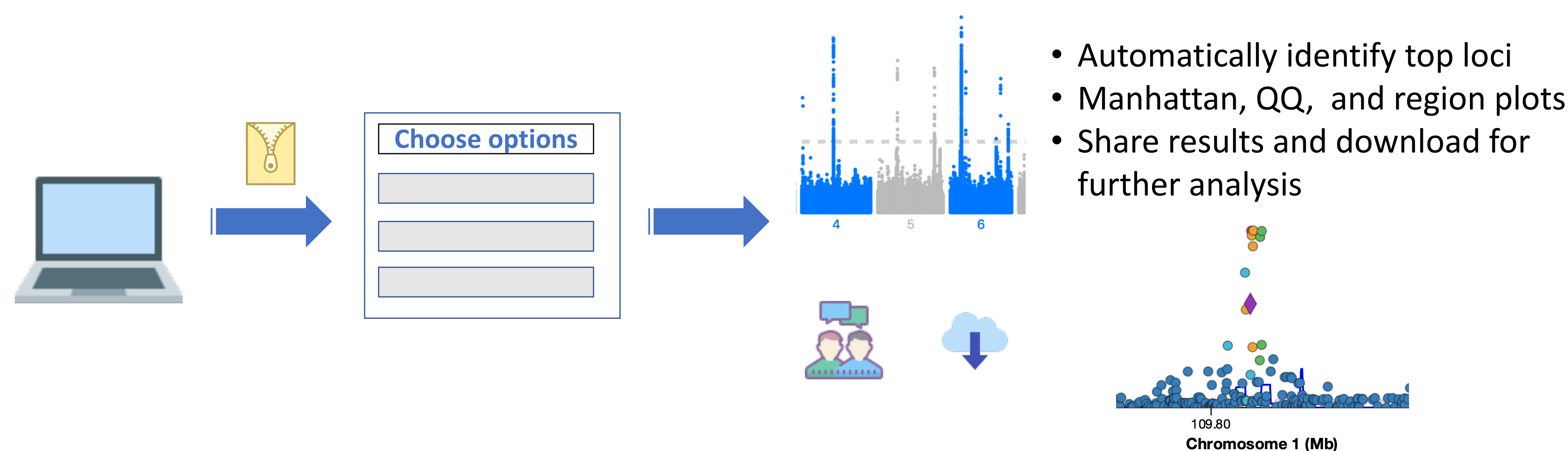
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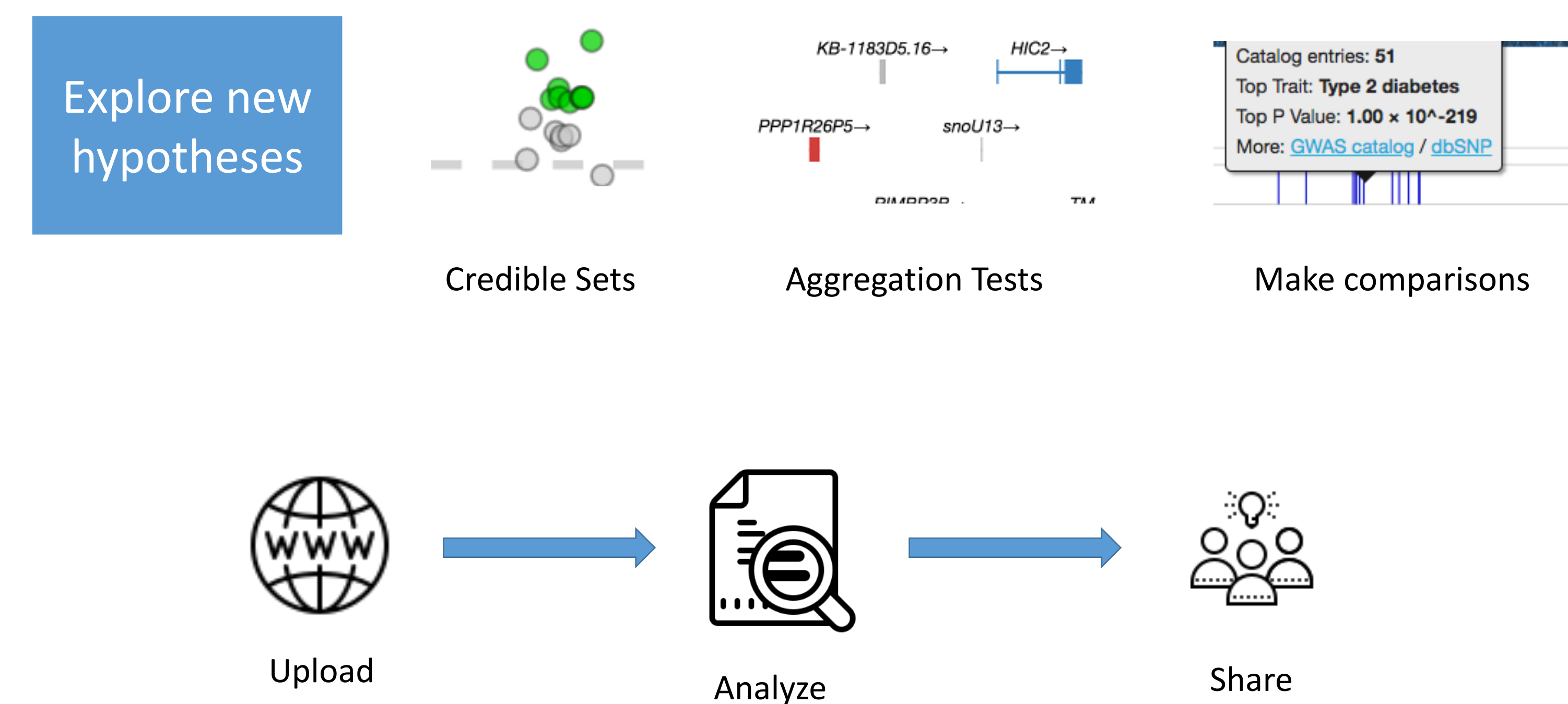
Use LocusZoom in Your Web Browser

- LocusZoom region plots are well established, and have been upgraded with **new capabilities** to meet evolving needs
- Real-time interactivity enables exploration among many loci
- Dynamic plotting tools support collaboration and data sharing
- Annotation data are continually evolving, and web version receives new or updated builds automatically
- Go beyond viewing data: apply methods and interpret



Analyze Locally

- Make a standard LocusZoom plot from tabixed GWAS summary statistics, in a web browser, without uploading files
- Full support for build GRCh37 and GRCh38
- Annotate with hits found in the GWAS catalog
- Perform region-based credible set calculations, in your web browser
- Explore hits for any SNP in a PheWAS of the UK BioBank



...Or Upload To Our Servers

- **Enhanced** view with additional information: top loci, Manhattan plot
- Supports a variety of GWAS file formats (no need to run tabix first)
- New website allows you to make your data public, or preview an analysis privately and share with trusted collaborators
- Explore publicly shared results from other studies

Flexible Options To Fit Your Needs

- All tools are open-source, and all annotation data is hosted in public REST APIs
- Multiple levels of privacy and sharing options. Choose the level of customization for your needs:
 - Interactive plotting widget (LocusZoom.js): complete customization and control over user experience
 - Browser-based local analysis tool (LocalZoom)
 - Full upload service (my.locuszoom.org)
- On-the-fly calculations let you explore new hypotheses

GWAS		Select a study: GLGC 2013- TC (joint analysis)					
PheWAS							
Export							
Chrom	Pos	Ref	Alt	-log ₁₀ (p)	β	SE(β)	
5	74656539	C	T	73.342	0.068	0.004	
5	74809776	A	T	9.937	0.040	0.006	
5	74700127	C	A	9.888	0.054	0.008	
5	74659988	A	G	9.132	0.050	0.008	

Export results for
follow-up analysis

What's Next?

- More annotation options to see results in biological context
 - Choice of LD reference panels
 - Select pre-computed BED annotations for your plot
- More datasets
 - Public summary statistics from published studies
 - Tag and search features
 - Compare your results to others
- Support more region-based calculations in your browser
 - Custom aggregation tests (Burden, SKAT, VT, SKAT-O)

<https://github.com/statgen/locuszoom/>



Plot locally:
<https://statgen.github.io/localzoom/>



Upload and share:
<https://my.locuszoom.org/>

Take our user survey
<https://bit.ly/32ZClo8>

