StatOmique:
sharing experience on statistical analysis of omics data

Working group of GDR BIMMM

Since 2008 **a federated community**
- Statistical methodologist
- Statistical software developer
- Data analyst and data scientist

https://statomique.github.io/

statomique@agroparistech.fr (>180 subscribers)

https://mygdr.hosted.lip6.fr/

About us

- Links with **LEGO working group of GDR BIMMM**, Machine learning pour la génomique
- with **Statistical Methods for Post Genomic Data** workshop
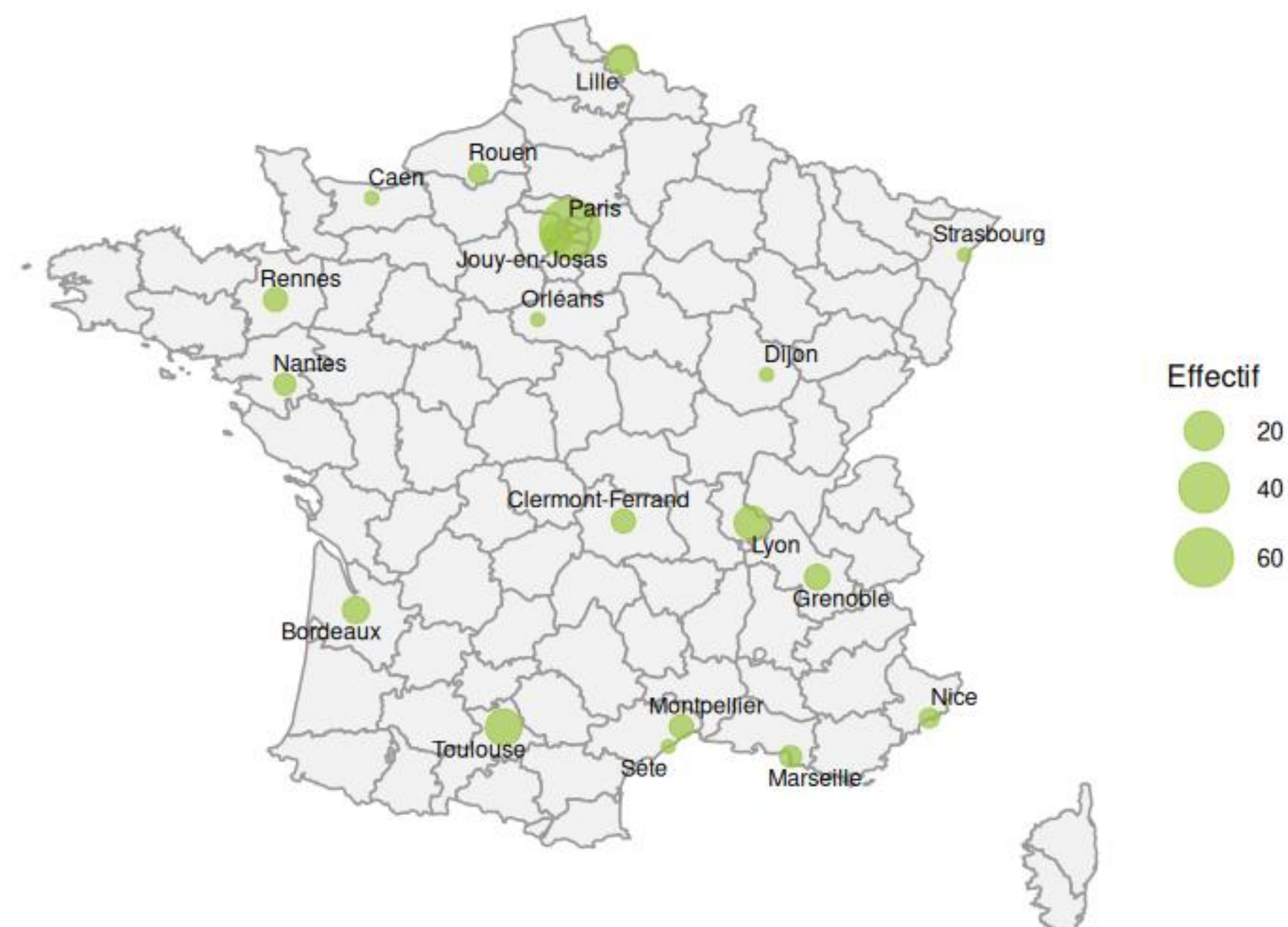
Key events

At least **2 thematic events by year** (webinar, workshop)
Statistical method, software, use case, bibliography

- **2008: Birth** in Rennes (~15)
- **2012: Benchmark** of RNAseq's normalisation methods, doi.org/10.1093/bib/bbs046/
- **2018: First poster at Jobim** in Marseille
- **2019: 10 Years' workshop**
- **2024**: Two **mini-symposiums at Jobim** in Toulouse
  - New horizons in computational approaches deconvoluting heterogeneous biological samples from bulk
  - Machine learning and statistics in genomics & metagenomics

Don't miss our next event

Where we are

Statistical challenges in omics data

Transcriptomics (bulk, single cell), Epigenomics, Metagenomics, Metabolomics

Integrative approaches in multi-omics based on

Clustering, Genome-Wide Association, Correlation/Covariance, Projection Latent Structure, Matrix factorisation, Kernel, Network, Machine learning, Deep learning

features

samples

Modelling relations between blocks

Julie Aubert
Christelle Hennequet-Antier
Marie-Agnès Dillies (2013-2024)