

# The URGI bioinformatic platform: Focus on genomic annotation database and tools

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**Abstract:** The INRA URGI is a bioinformatics unit dedicated to plant genomes and their bio-aggressors. We develop GnpIS, an information system dedicated to genomic and genetic data. We present here GnpGenome (<http://urgi.versailles.inra.fr/gbrowse>) our genomic annotation database and the “roundtrip” annotation process:

GnpGenome system relies on the well known GMOD tools (<http://gmod.org>): Apollo, Chado and GBrowse. Apollo is the graphical interface for visualization and annotation edition allowing curators to edit their genes according to evidences (transcript and protein similarity, comparative genomics). Manual annotations (gene curation validated/in progress) are saved in a dedicated Chado database and shared at the same time with other community annotation members. Validated genes/pseudogenes are then committed in a second Chado database accessible by GBrowse.

