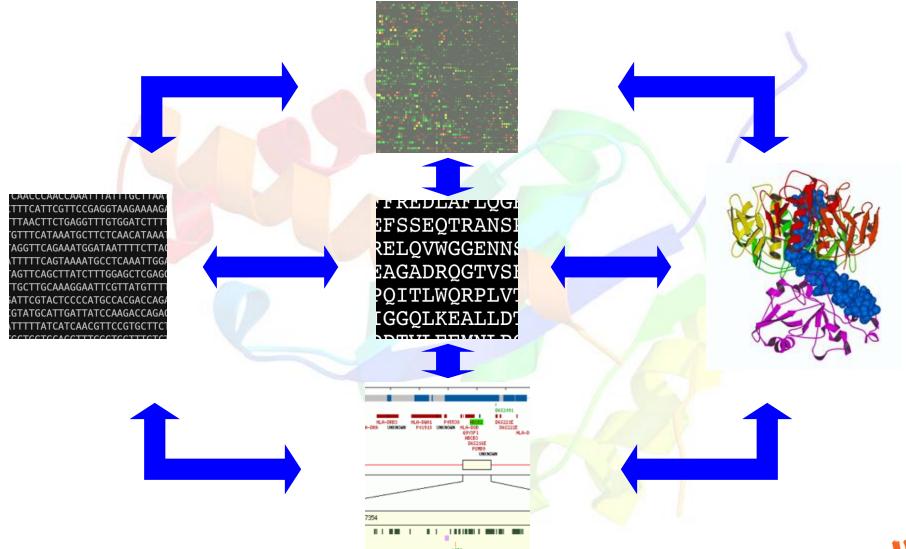
Michael Landi & Andreas Gisel

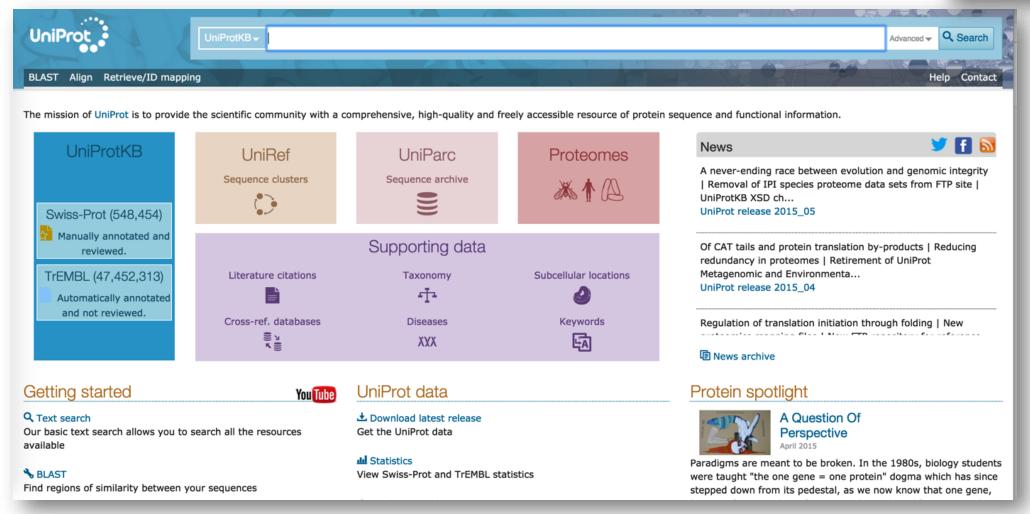
IITA- Bioinformatics Kenya & Nigeria



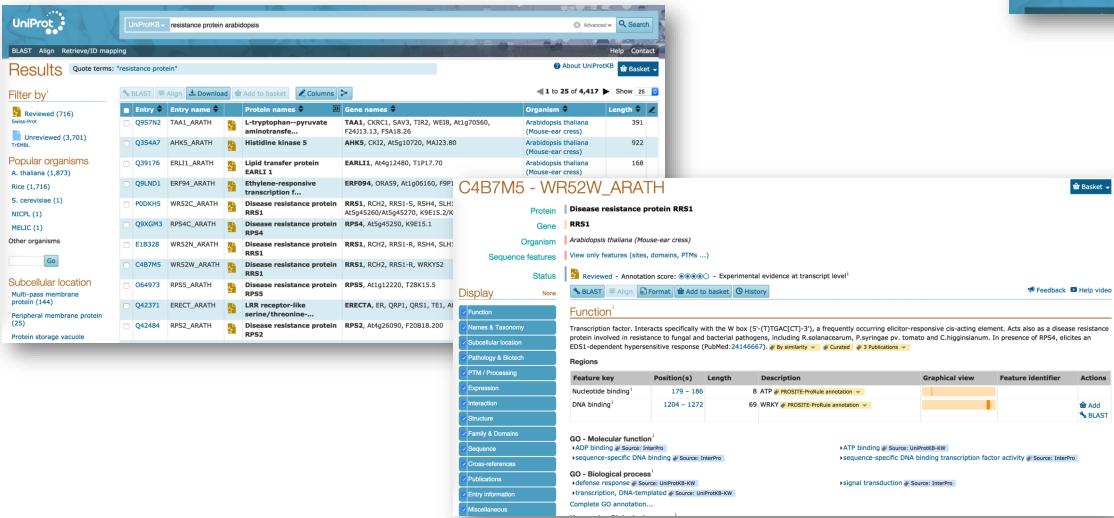
African Star Apple Assembly workshop 2 – 6 June 2025



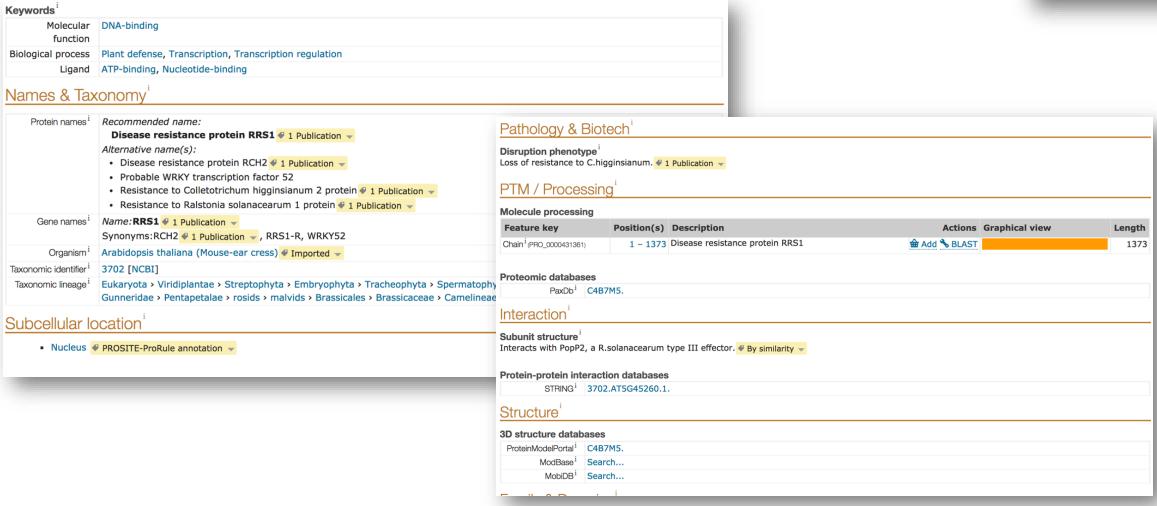














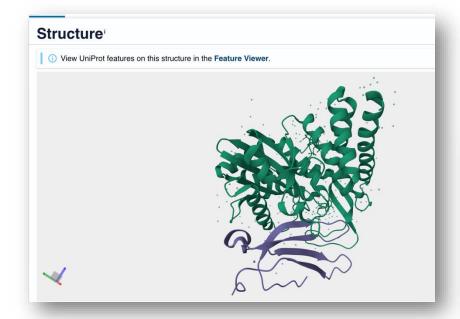
| Domains and Repea | ts | | | | |
|----------------------|-------------|---|-------------|----------------|--------|
| Feature key | Position(s) | Description | Actions | Graphical view | Length |
| Domain i | 8 - 145 | TIR Curated | Add & BLAST | | 138 |
| Domain i | 170 - 421 | NB-ARC Sequence analysis | Add & BLAST | | 252 |
| Repeat ⁱ | 498 - 522 | LRR 1 Sequence analysis | Add & BLAST | | 2. |
| Repeat i | 535 - 553 | LRR 2 Sequence analysis | Add & BLAST | | 19 |
| Repeat ⁱ | 554 - 575 | LRR 3 Sequence analysis | Add % BLAST | | 22 |
| Repeat ⁱ | 577 - 598 | LRR 4 Sequence analysis | Add & BLAST | | 22 |
| Repeat ⁱ | 621 - 646 | LRR 5 Sequence analysis | Add & BLAST | | 26 |
| Repeat i | 665 - 688 | LRR 6 Sequence analysis | Add & BLAST | | 24 |
| Repeat ⁱ | 742 - 766 | LRR 7 Sequence analysis | Add & BLAST | | 2. |
| Repeat ⁱ | 768 - 793 | LRR 8 Sequence analysis | Add & BLAST | | 26 |
| Repeat ⁱ | 831 - 854 | LRR 9 Sequence analysis | Add & BLAST | | 24 |
| Motif | | | | | |
| Feature key | Position(s) | Description | Actions | Graphical view | Length |
| Motif ⁱ | 988 - 1005 | Nuclear localization signal Sequence analysis | Add SBLAST | | 18 |
| Compositional bias | | | | | |
| Feature key | Position(s) | Description | Actions | Graphical view | Length |
| Compositional bias i | 463 - 466 | Poly-Arg | | | |

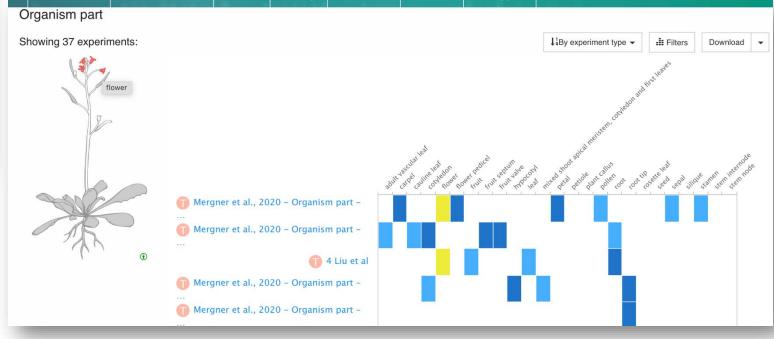
| equence status ⁱ : Complete. | | | | | | | |
|---|------------|------------|------------|------------|--|--|--|
| 37M5-1 [UniPa | ± FASTA | Add to ba | sket | | | | |
| 10 | 20 | 30 | 40 | 50 | | | |
| MTNCEKDEEF | VCISCVEEVR | YSFVSHLSEA | LRRKGINNVV | VGVDSDDLLF | | | |
| 60 | 70 | 80 | 90 | 100 | | | |
| KESQAKIEKA | GVSVMVLPGN | CDPSDVWLDK | FAKVLECQRN | NKDQAVVPVL | | | |
| 110 | 120 | 130 | 140 | 150 | | | |
| YGDSLLRDQW | LSELDFKGLS | RIHQSRKECS | DSILVEEIVR | DVYETHFYVG | | | |
| 160 | 170 | 180 | 190 | 200 | | | |
| RIGIYSKLLE | IENMVNKQPI | GIRCVGIWGM | PGIGKTTLAK | AVFDQMSSAF | | | |
| 210 | 220 | 230 | 240 | 250 | | | |
| DASCFIEDYD | KSIHEKGLYC | LLEEQLLPGN | DATIMKLSSL | RDRLNSKRVL | | | |
| 260 | 270 | 280 | 290 | 300 | | | |
| VVLDDVRNAL | VGESFLEGFD | WLGPGSLIII | TSRDKQVFCL | CGINQIYEVQ | | | |
| 310 | 320 | 330 | 340 | 350 | | | |
| GLNEKEARQL | FLLSASIKED | MGEQNLQELS | VRVINYANGN | PLAINVYGRE | | | |
| 360 | 370 | 380 | 390 | 400 | | | |
| LKGKKKLSEM | ETAFLKLKRR | PPFKIVDAFK | STYDTLSDNE | KNIFLDIACF | | | |
| 410 | 420 | 430 | 440 | 450 | | | |
| FQGENVNYVI | QLLEGCGFFP | HVEIDVLVDK | CLVTISENRV | WLHKLTQDIG | | | |
| 460 | 470 | 480 | 490 | 500 | | | |
| REIINGETVQ | IERRRRLWEP | WSIKYLLEYN | EHKANGEPKT | TFKRAQGSEE | | | |
| 510 | 520 | 530 | 540 | 550 | | | |
| IEGLFLDTSN | LRFDLQPSAF | KNMLNLRLLK | IYCSNPEVHP | VINFPTGSLH | | | |
| 560 | 570 | 580 | 590 | 600 | | | |
| SLPNELRLLH | WENYPLKSLP | QNFDPRHLVE | INMPYSQLQK | LWGGTKNLEM | | | |
| | | | | | | | |

| quence databases | | | |
|-----------------------------|-----------------------------|---------------|--------|
| NUCLEOTIDE SEQUENCE | PROTEIN SEQUENCE | MOLECULE TYPE | STATUS |
| AB470471 | BAH59424.1 | mRNA | |
| EMBL ☑ · GenBank ☑ · DDBJ ☑ | EMBL ☑ · GenBank ☑ · DDBJ ☑ | | |





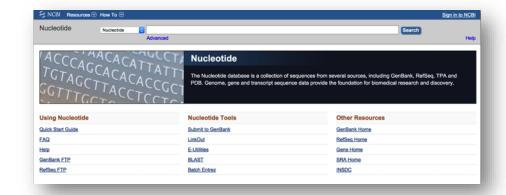












http://www.ncbi.nlm.nih.gov/nucleotide/

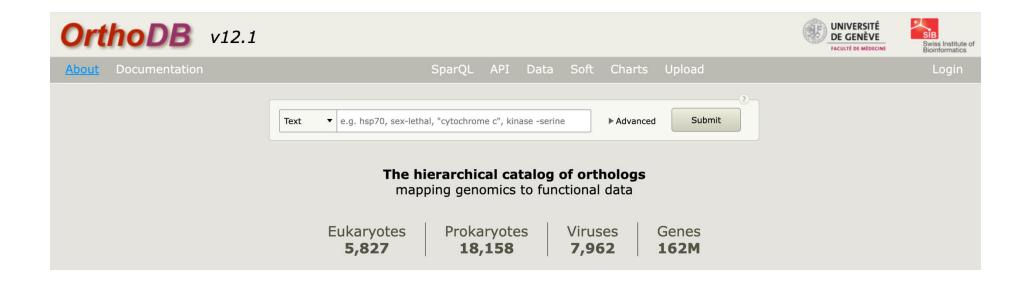






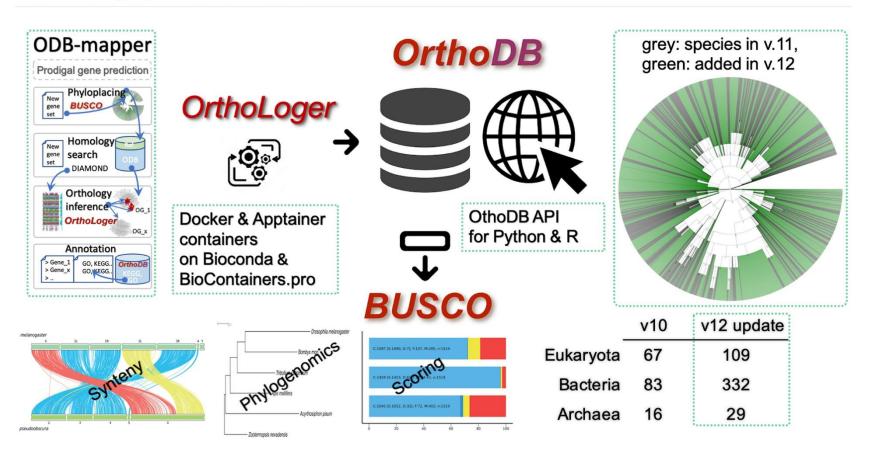


the hierarchical catalogue of orthologs



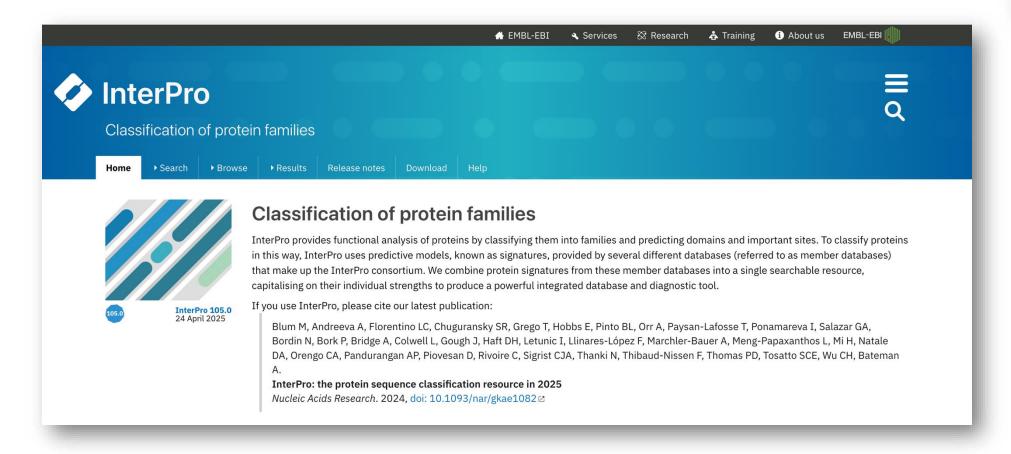
OrthoDB graphical abstract





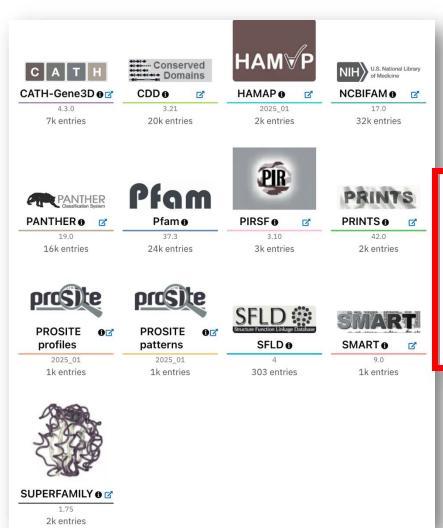












InterProScan

InterProScan is the software package that allows sequences to be scanned against InterPro's member database signatures.

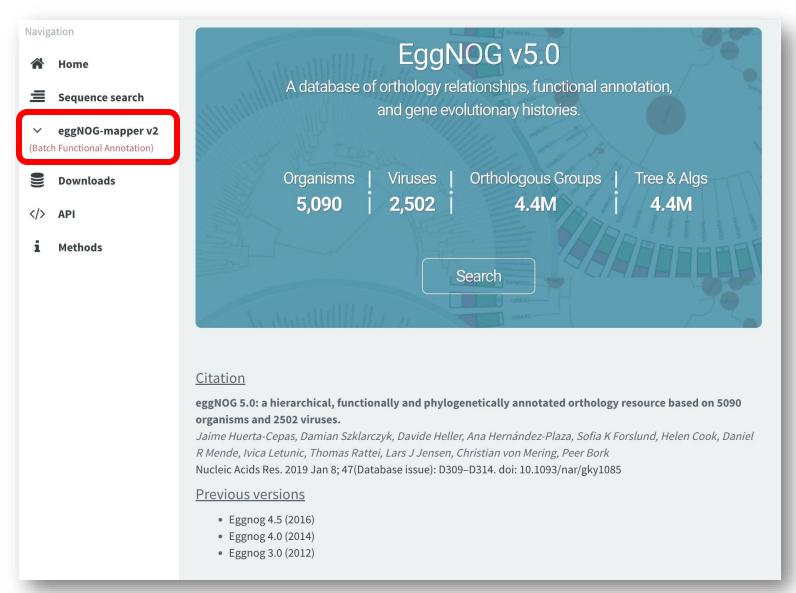
Users who have novel nucleotide or protein sequences that they wish to functionally characterise can use InterProScan to run the scanning algorithms against the InterPro database in an integrated way.

Download the latest version (5.74-105.0)

∆ Linux (64-bit) - System requirements

- There are no versions planned for Windows or Apple operating systems. This is due to constraints in the various third-party binaries that InterProScan runs.
- Older versions of InterProScan are not supported anymore. We highly recommend you to update to the latest version.







EggNOG 5.0.0

eggNOG-mapper v2 is a tool for functional annotation of large sets of sequences based on fast orthology assignments using precomputed eggNOG v5.0 clusters and phylogenies.

