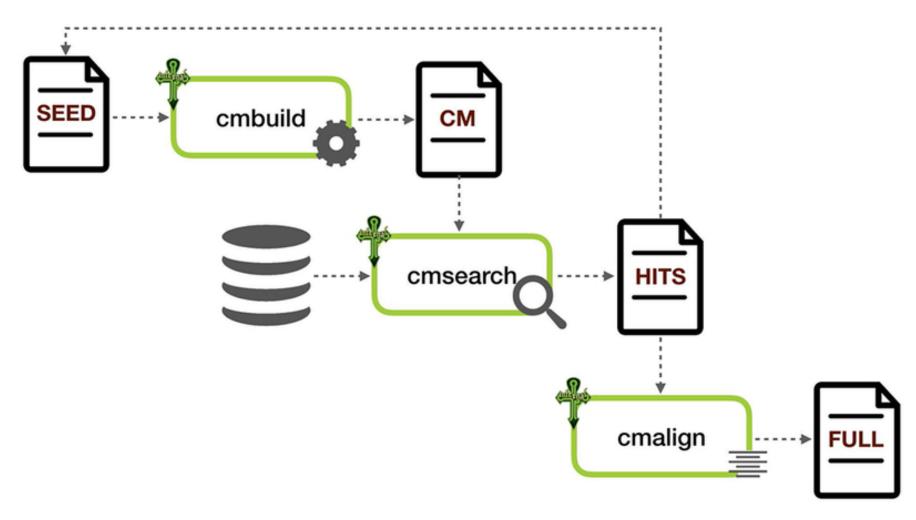
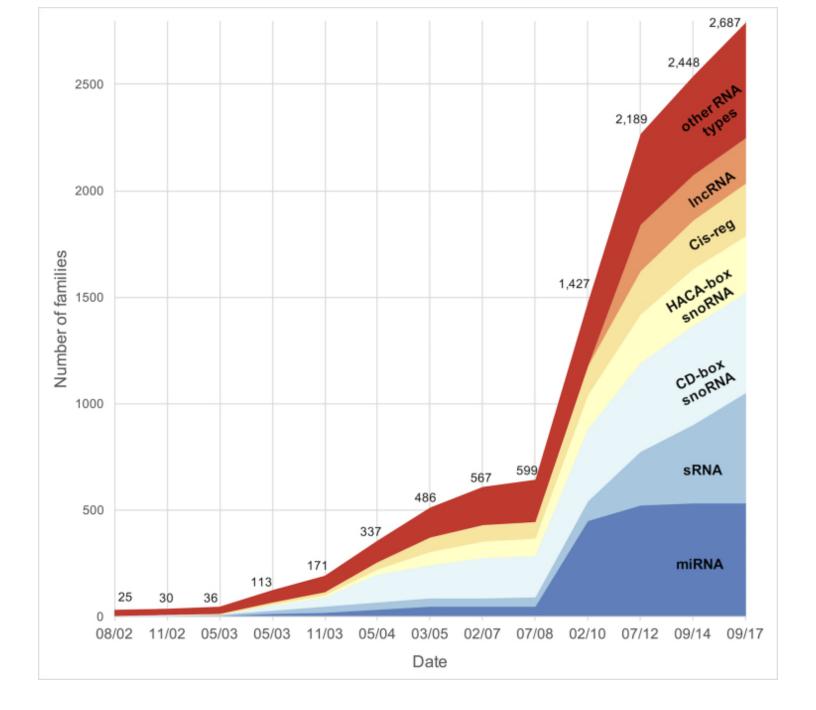
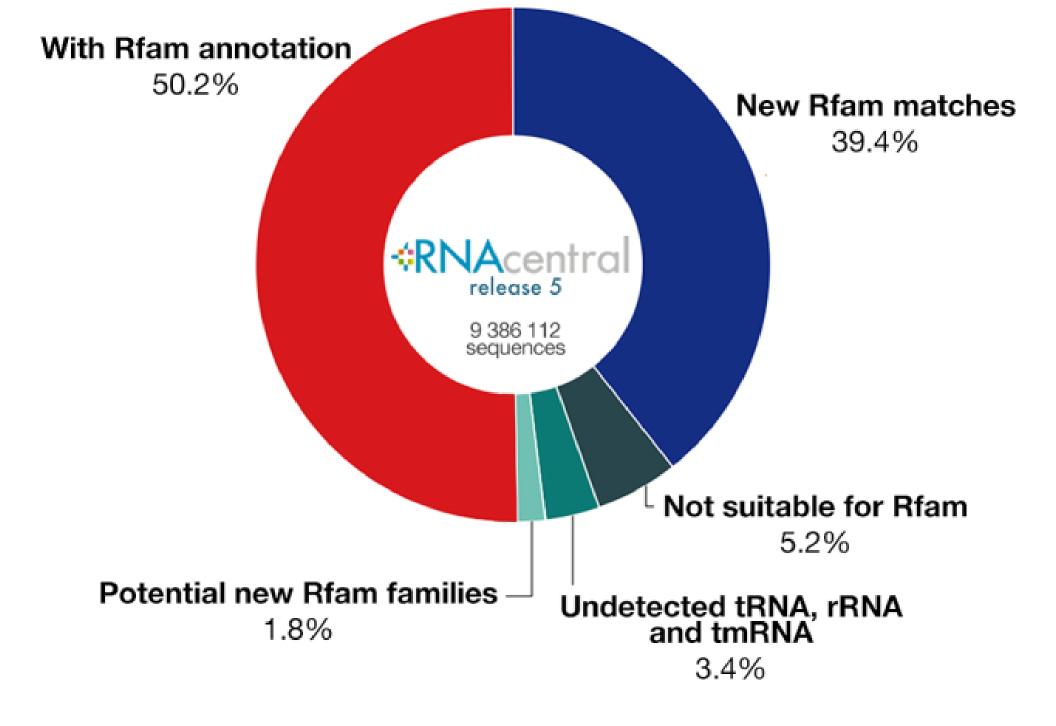
Rfam: RNA families database (3016 families)

- Each family is represented by:
 - representative SEED alignment annotated with secondary-structure
 - covariance model (CM) built from the SEED
 - hits in Rfamseq database above GA threshold (FULL)

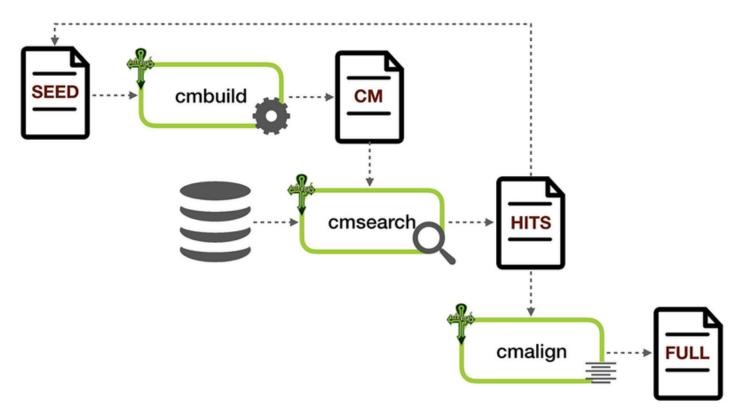






Rfamseq: switch from subset of ENA to genome-centric database

- about 8000 reference genomes
- reduces redundancy
- more scalable



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Rfamseq: genome-centric database means less flexible SEEDs

- previous requirement: SEED sequences must be in Rfamseq
- new approach allows any GenBank or RNAcentral sequence
- verification of sequences utilizes GenBank and RNAcentral API

Future directions for Rfam

• i	mprove	Rfam	families	based	on	crystal	structures
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• synchronize with mirBase

• use model reference coordinates to annotate important features

• continue to add families