

# DE NOVO DISCOVERIES: INNOVATIVE TOOLS FOR DE NOVO GENE RESEARCH

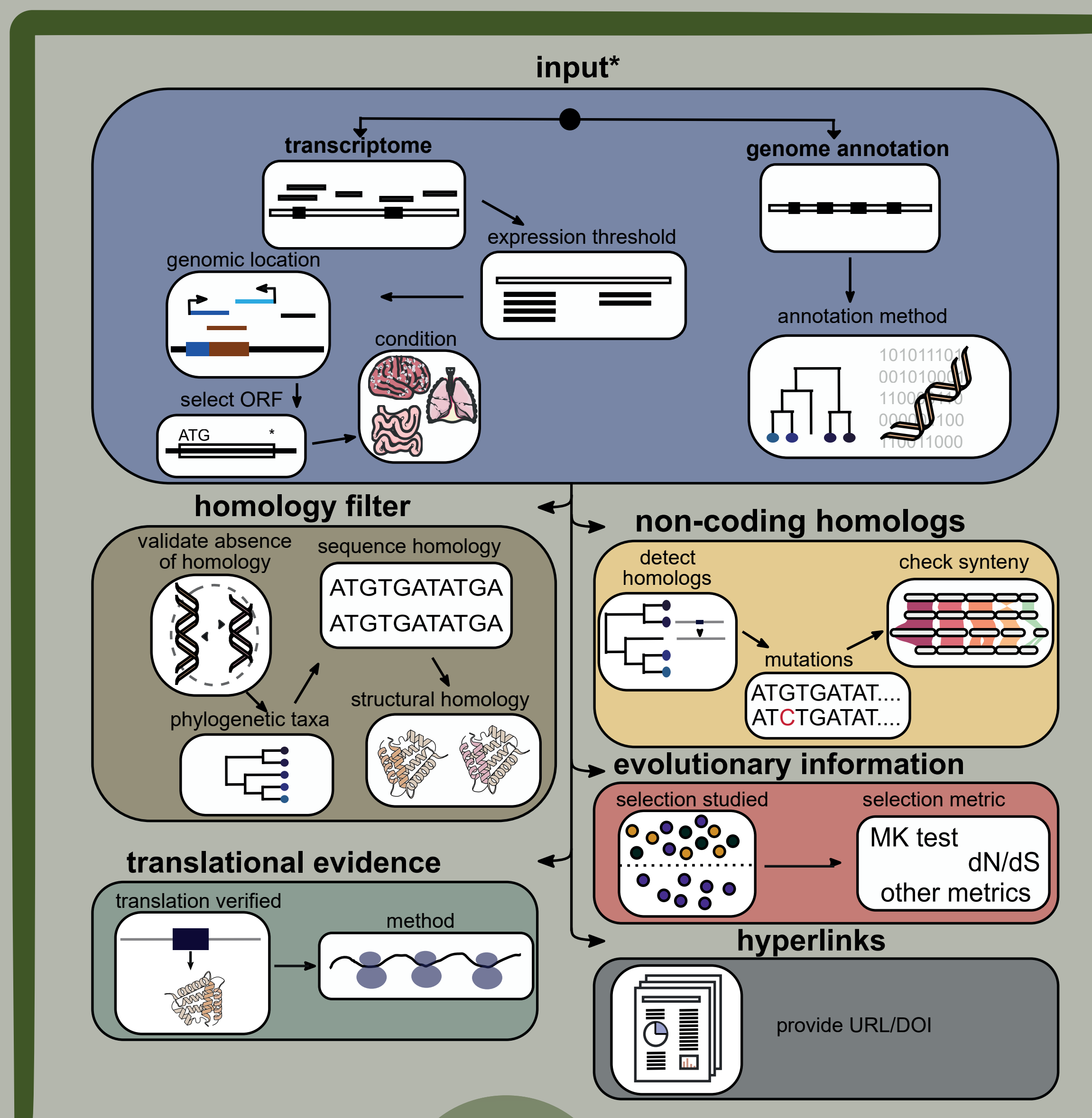
Elias Dohmen, Anna Grandchamp, Marie Lebherz, The DeNoFo-Consortium\*

@drdomain.bsky.social

\* Elias Dohmen, Margaux Aubel, Lars Eicholt, Paul Roginski, Victor Luria, Amir Karger, Anna Grandchamp



De novo genes are a young and fast-moving area of research with a high degree of variation in methods and terminology. We developed a standardised annotation format to make de novo studies reproducible and comparable to accelerate advancements in this field.



DeNoFo is a toolkit that provides easy access to this de novo gene annotation format. Any researcher can use the tools without prior knowledge to annotate their de novo gene discovery methodology and save it in a separate file or annotate fasta and gff files with it. Additional tools allow easy comparison between studies and conversion of file types.



GitHub

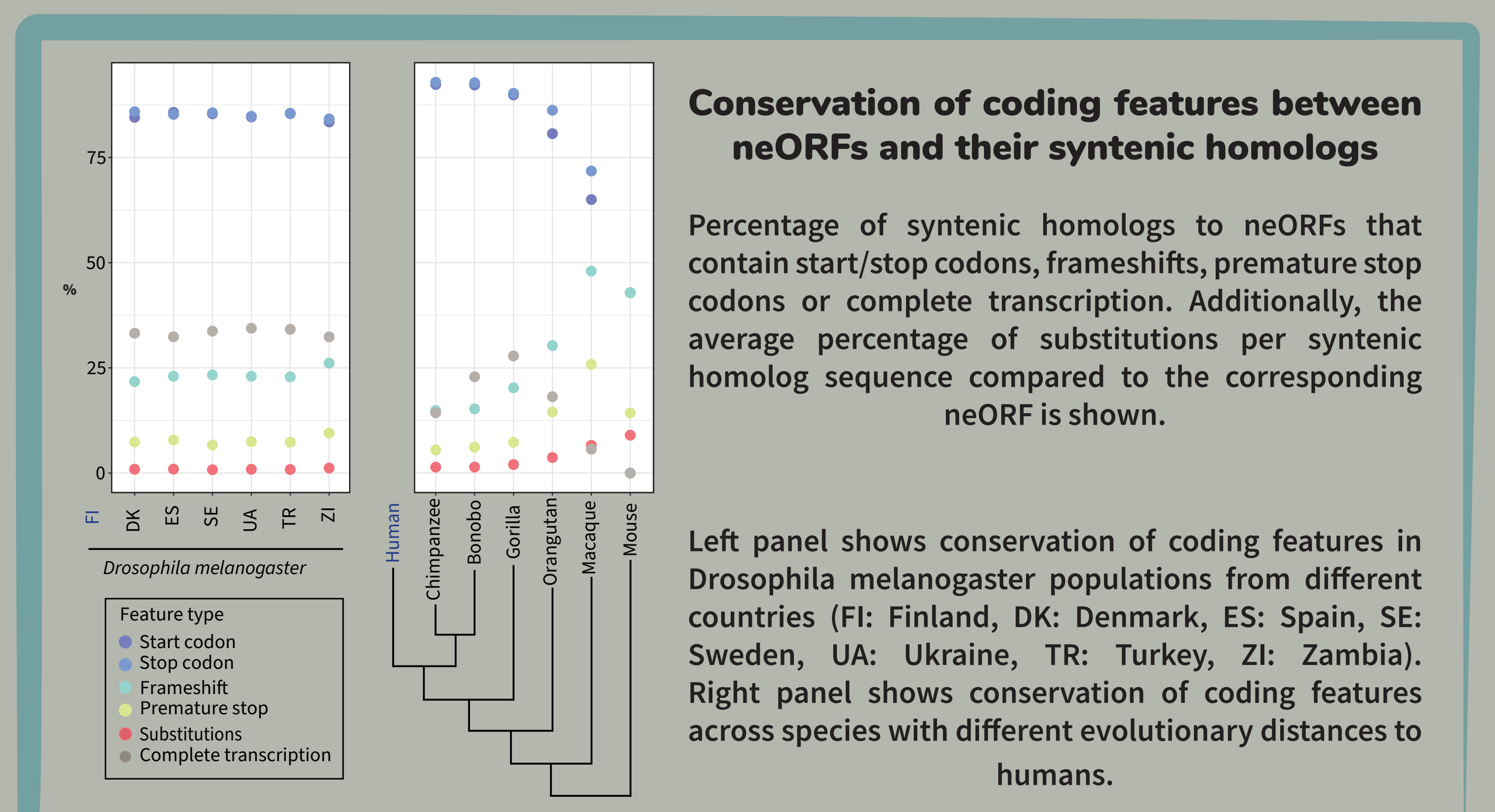


GitHub



DESwoMAN

DESwoMAN is a tool that automates the detection of precursors of de novo genes - newly expressed Open Reading Frames (neORFs) - based on transcriptome data. With this tool it is possible to study mutations of neORFs within populations and/or across species.



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