

A. Main Home page

RNA-TVcurve

Job ID...

Retrieve results by Job ID
Home

Home
Intro
License
About

TVCurve

Please choose one of following functions below: (Note: Only first sequence will be calculated on first two method)

TVCurve **1** RNA Mutation **2** RNA Multiple **3** RNA Pairwise **4**

Four functional modules

Instruction

Step 1: Input one or more RNA sequences or Choose File and click Upload
Step 2: Click One of the methods
Please note that only first sequence will be calculated on first two method

Notice

The minimal length of the input RNA sequence of RNA-TVcurve should be 10.

B. Functional module 1: TVCurve

The screenshot shows the TVCurve web interface. At the top, there is a 'Home' header. Below it, the TVCurve logo is visible. A navigation bar contains buttons for 'TVCurve', 'RNA Mutation', 'RNA Multiple', and 'RNA Pairwise'. The 'TVCurve' button is highlighted with a blue arrow pointing to the text 'Visualization of RNA secondary structure'. Below the navigation bar, there is a section titled 'Please choose one of following functions below: (Note: Only first sequence will be calculated on first two method)'. Underneath, there is a list of three links: '1. Click here to load the RNA sequence and structure of Hepatitis C virus sample', '2. Click here to load the sequence of Leptomonas collosoma sample', and '3. Click here to load nine RNA virus sequences'. A red box highlights these links, with a blue arrow pointing to the text 'Tested examples'. Below the links, there is a text input field labeled 'Open RNA FASTA file...' with a blue arrow pointing to it from the text 'upload local files'. Below the input field, there is a large text area labeled 'FASTA sequences and optional structures here' with a blue arrow pointing to it from the text 'or submit in this text box'. To the right of this text area, there is a box titled 'Input: FASTA format' containing four bullet points: (i) a single RNA primary sequence and its secondary structure, (ii) or a set of RNA primary sequences and their structures, (iii) or primary sequences and part of structures, and (iv) or primary sequences alone. At the bottom left, there is a 'TVCurve' button with a blue arrow pointing to it from the text 'Execution button'.

Home

TVCurve

Please choose one of following functions below: (Note: Only first sequence will be calculated on first two method)

TVCurve RNA Mutation RNA Multiple RNA Pairwise

TVCurve Tab

You can open file or write content below:

1. Click here to load the RNA sequence and structure of *Hepatitis C virus* sample
2. Click here to load the sequence of *Leptomonas collosoma* sample
3. Click here to load nine RNA virus sequences

Open RNA FASTA file...

FASTA sequences and optional structures here

TVCurve

Visualization of RNA secondary structure

Tested examples

upload local files

or submit in this text box

Input: FASTA format

- (i) a single RNA primary sequence and its secondary structure
- (ii) or a set of RNA primary sequences and their structures
- (iii) or primary sequences and part of structures
- (iv) or primary sequences alone

Execution button

C. Functional module 2: RNA Mutation

Detection of single-point mutation
based on RNA secondary structure

TVCurve

Please choose one of following functions below: (Note: Only first sequence will be calculated on first two method)

TVCurve **RNA Mutation** RNA Multiple RNA Pairwise

RNA Mutation Tab

Compare with RNAdist and RNAdistance

You can open file or write content below:

1. Click [here](#) to load the sequence of *Leptomonas collosoma* sample

Open RNA FASTA file...

FASTA sequences and optional structures here

Input: FASTA format
(i) a single RNA primary sequence and its secondary structure
(ii) or primary sequences alone

RNA Mutation

D. Functional module 3: RNA Multiple

Construction of phylogenetic tree

Please choose one of following functions below: (Note: Only first sequence will be calculated on first two method)

TVCurve RNA Mutation **RNA Multiple** RNA Pairwise

RNA Multiple Tab

Compare with RNAdist and RNAdistance

You can open file or write content below:

1. [Click here](#) to load 100 sequences of 4 non-coding RNA families
2. [Click here](#) to load nine RNA virus sequences
3. [Click here](#) to load another nine 5S rRNA sequences
4. [Click here](#) to load 18 RNase P and RNA Nase MRP sequences

Open RNA FASTA file...

FASTA sequences and optional structures here

Input: FASTA format

- (i) a set of RNA primary sequences and their structures
- (ii) or a set of primary sequences and part of structures
- (iii) or a set of primary sequences alone

RNA Multiple

Option for comparing with RNAdistance and RNAdist

Tested examples

E. Functional module 4: RNA Pairwise

TVCurve

Please choose one of following functions below: (Note: Only first sequence will be calculated on first two method)

TVCurve RNA Mutation RNA Multiple **RNA Pairwise**

RNA Pairwise Tab

You can open file or write content below:

Open RNA FASTA file...

FASTA sequences and optional structures here

Query input

Open RNA FASTA file...

FASTA sequences and optional structures here

Target input

RNA Pairwise

One to one structure comparison between target input and query input

FASTA format

- (i) a single RNA primary sequence and its secondary structure
- (ii) or a set of RNA primary sequences and their structures
- (iii) or primary sequences and part of structures
- (iv) or primary sequences alone

Same number of RNAs in query input and target input