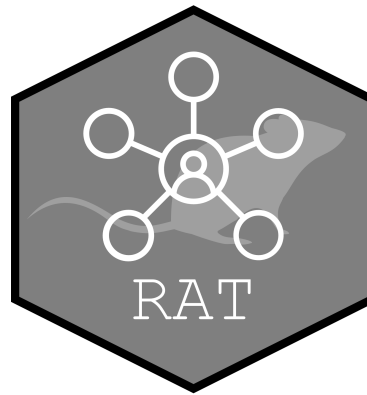# Inclusiveness

↓

i-index

The *i* number of co-author countries in more than *i* publications

- For each publication by a given researcher/institution, derive the list of countries of the co-authors' institutions;

- Remove duplicated countries;

- Sum the number of instances per country across all publications;

- Order countries by their sum;

- Calculate *i* as the number of countries whose sum is higher or equal than their rank when ordered.

Representativeness

↓

r-index

Overlap between an author's collabroative network and the expected network if co-authors were distributed independently of country GDP

- Calculate the expected and observed distribution (in log octaves) of global GDPs per capita of all countries represented in a set of publications

- Remove duplicated countries within a single publication; count multiple time countries across publications

- Exclude the author's own country

- Standardize expected and observed distributions

- Calculate *r* as the overlap between expected and observed distributions, i.e., the sum of minimum values among expected and observed for each octave

RAT

$i * r$

weighted i-index

↓

Promote recognition of scientific partnerships

Incentivize collaboration and transfer of knowledge among countries

Promote the use of more inclusive metrics wihin Academic evaluations at personal and institutional levels