Grassroots review journals

- An overlay journal that also reviews articles
- Aim is to destroy the power of the legacy publishers
  - Need to review the entire literature
  - Need a quantitative quality assessment
  - Need a trusted editorial board
- It brings together articles that are now spread over many publications
  - Provides a better access to the literature
  - Role now performed by a PhD supervisor

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Grassroots review journals

- Post-publication review
  - Only quality assessment
  - Up to date, when the paper is understood
  - Benefits papers of lasting value

- Open
  - All comments, reviews & syntheses are published
  - Open communication standard to spread the reviews
  - Qualitative multi-faceted assessment

- Journal/publisher independent
  - Reviews articles & manuscripts submitted elsewhere
    - No chicken-egg problem of not receiving good manuscripts

Integrations – Metadata for review

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- Other peer reviews
  - Pubpeer, Peer Community In …, Self Journal of Science, Open review journals, Peeriodicals, Peerage of Science, Journal clubs, PREreview, ...

- Other recommendations
  - Science Open Collections, Publons, ...

- Web annotations (Hypothesis, PaperHive, …)

- Review status (PubFair)

Integrations – Metadata for review

- Protocols (Protocols.io)

- References and Citations (Open citations)

- Media links on the article (Crossref event data)

- Retractions (Retraction watch)

- Research Resource Identifiers (RRID)
  - Organisms, antibodies, cell lines, software tools and databases

Integrations – Communication & User support

- (Contact) information on the authors (ORCHID, WikiData, Scholia)
  - Include handles of authors in draft Tweet or Toot (Mastodon)

- Parse references (AnyStyle.io)
- Generate references in typical styles
- Single Sign On, authentication (LIBER, FIM4R, eduGAIN)

Integrations (services to be developed)

- Links to data
  - Give an article DOI, get data DOIs (DataCite?)
- Source code
  - Give an article DOI, get source DOIs
- System where authors can (retrospectively) indicate author roles (CRediT)
- Translations
- Make journal club reviews FAIR
- Retractions of cited articles (Open Citations & Retraction Watch)
- System where scientists can indicate important references
- Information on reproductions and refuting articles (Scite.ai)
  - Citation ontologies (CiTO)
- Results of statistics checkers
- Article ontologies

Conclusions

- Many integrations possible
  - Helpful to assess a manuscript
  - Spread the work

- We could work on some of them
  - Integrate existing services
  - Develop one of these new services

- We could agree on a (partial) standard for such integrations
  - API, rsync, ActivityPub, …

- An Open Science browser add-on

Open post-publication publishing system and the integrations with other data sources that would make it more useful

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Integrations just for Grassroots journals

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- Links to free manuscript (Unpaywall)
- Assessments of the journals
  - Bibliographic measures (flag)
  - Academies of science, ...
- Quality certificates
  - Cochrane & Co.
  - Open Data
  - Platform for Responsible Editorial Policies (PREP), ...
- Suggest relevant new article for review
- Community building tools
  - Conferences (Confident), communication (social media, email distribution lists, RocketChat, ...)