WheatIS EWG updates

Michael Alaux

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wheatIS
WHEAT INFORMATION SYSTEM

Michael Alaux, 17 October 2022

WHEAT INITIATIVE

New chair

- Thanks to Taner Sen, who stays as co-chair
- Thanks to Hadi Quesneville
- Michael Alaux: chair since April 2023
  - Head of the Plant bioinformatics facility at INRAE-URGI
  - Wheat projects and consortium:

    IWGSC, BreedWheat, Whealbi, AGENT

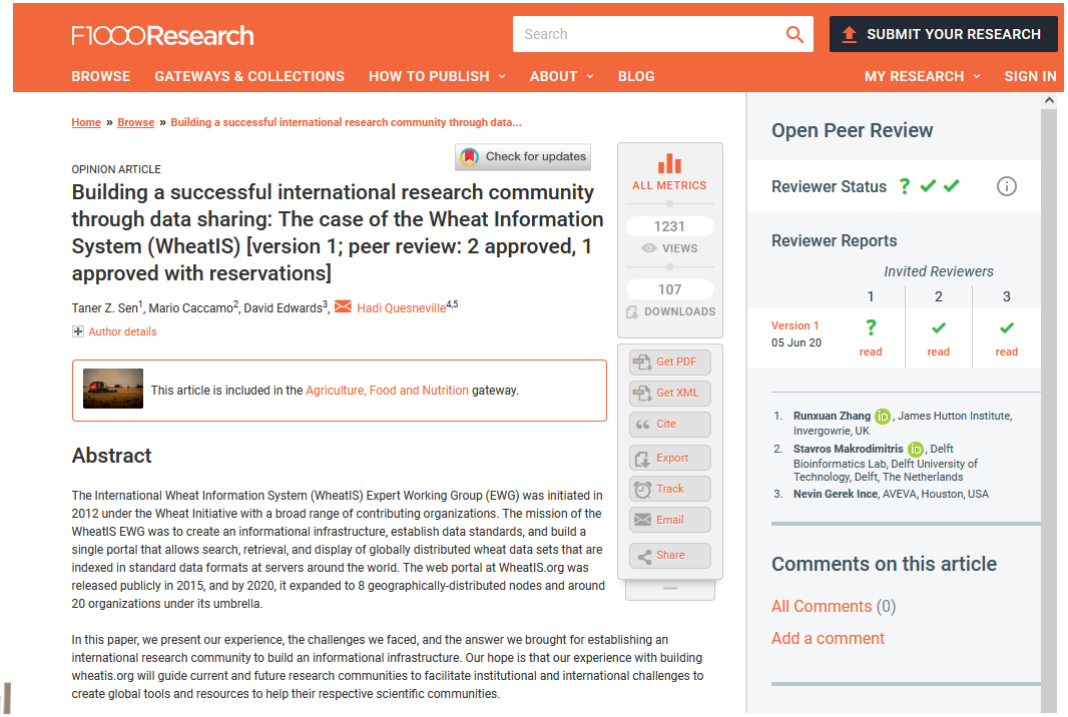
COVID lockdowns

- Less coordination activities
  - No in person-meeting
  - Only few virtual meetings
- Meetings start again now
  - WheatIS EWG virtual meeting 13/10/2022
  - Planning a WheatIS annual assembly at PAG
    - Friday 13/01/2023 10AM-12PM
    - You are welcome !

COVID lockdowns

- Communication activities
  - Article Sen et al.

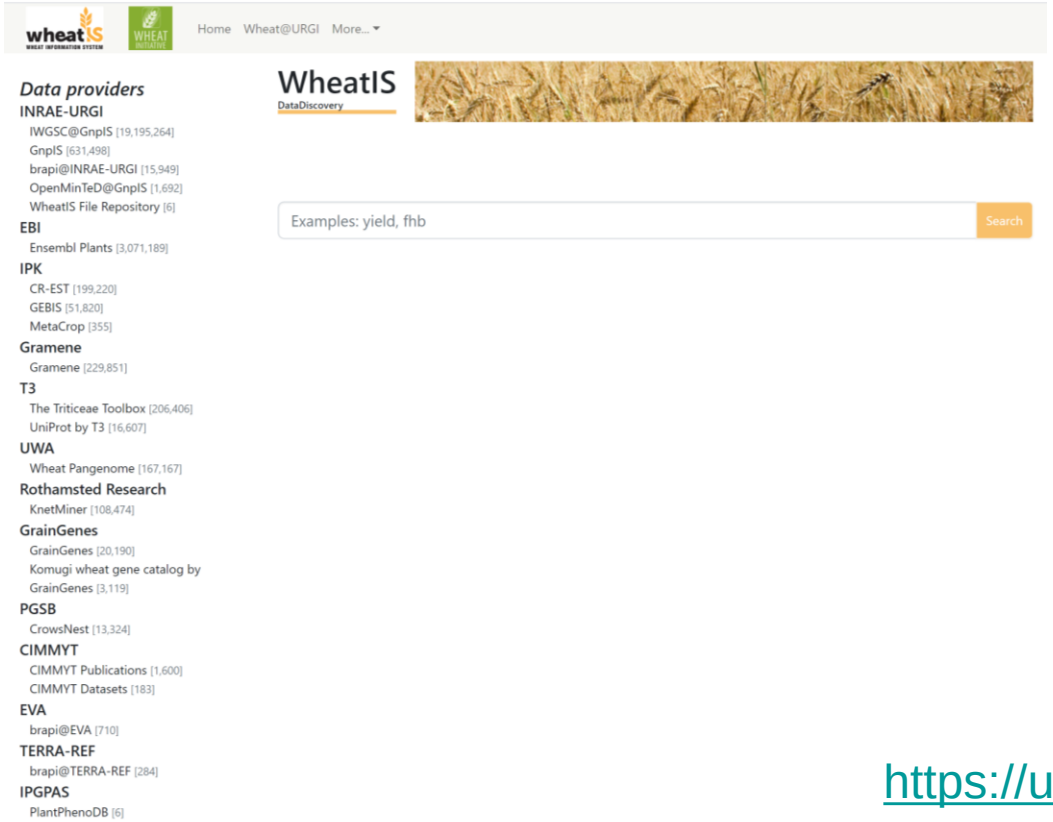
    https://f1000research.com/articles/9-536
  - Logo design



wheatIS
WHEAT INFORMATION SYSTEM

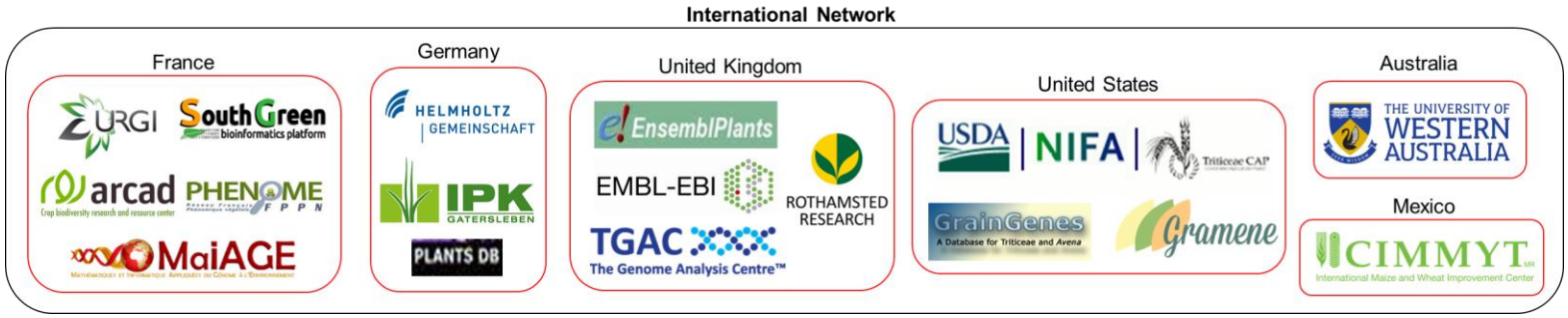
COVID lockdowns

- Bioinformatics development activities
  - WheatIS data discovery tool
    - New version of the tool



https://urgi.versailles.inrae.fr/wheatis/

WheatIS data discovery



INRAE-URGI
- IWGSC@GnpIS [19 195 264]
- GnpIS [631 498]
- brapi@INRAE-URGI [15 949]
- OpenMinTeD@GnpIS [1 692]
- WheatIS File Repository [6]

EBI
- Ensembl Plants [3 071 189]

IPK
- CR-EST [199 220]
- GEBIS [51 820]
- MetaCrop [355]

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- Gramene [229 851]

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- CIMMYT Publications [1 600]
- CIMMYT Datasets [183]

EVA
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TERRA-REF
- brapi@TERRA-REF [284]

IPGPAS
- PlantPhenoDB [6]

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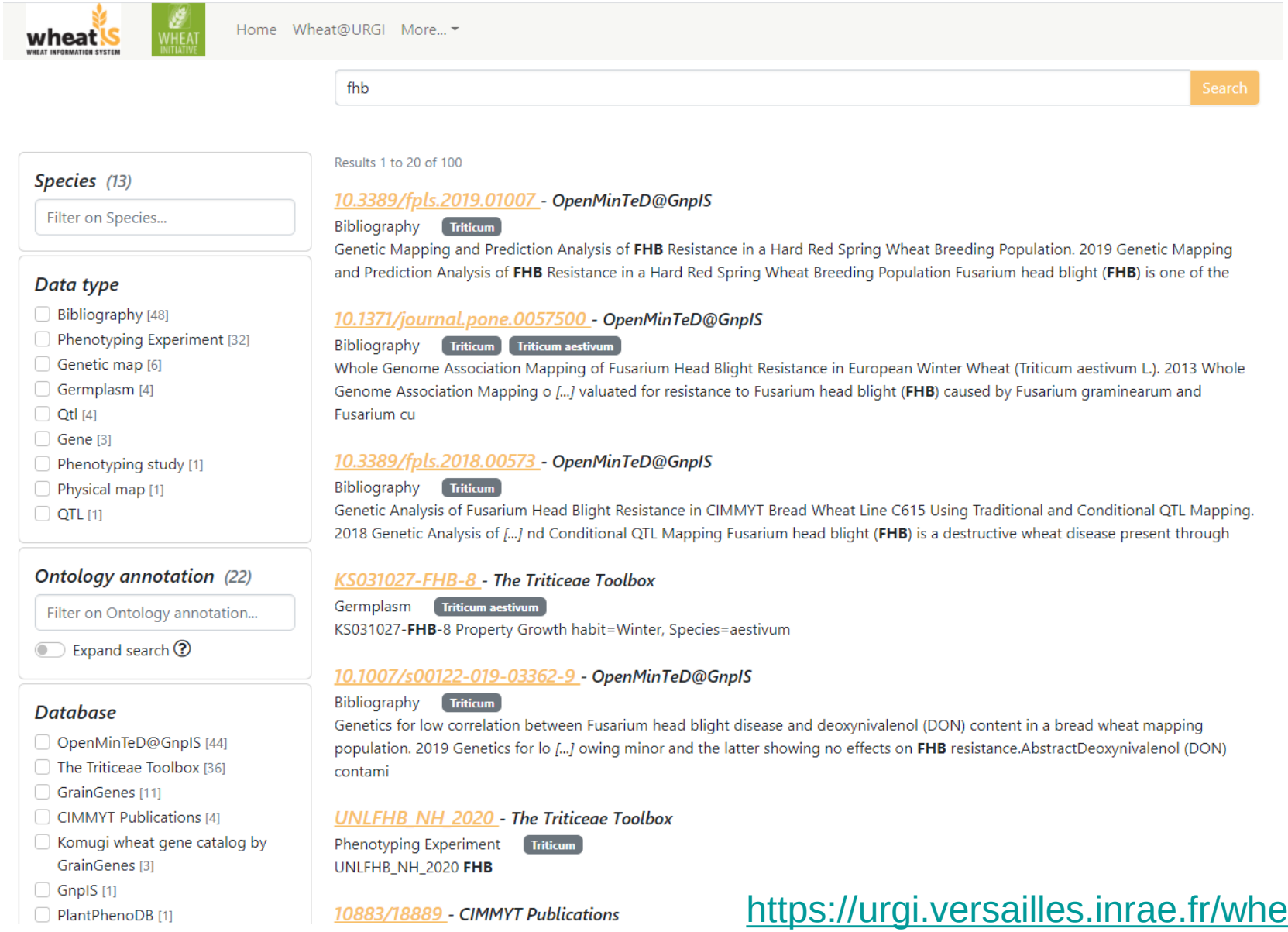
WheatIS data discovery



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WheatIS data discovery

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- Help
- News/Perspectives

How to join the wheat ... r the Plant federations of searchable data?

If you want your information system to be referenced, y ... or JSON files with metadata only. The metadata format must follow the indications below and we invite you to contact us as soon as possible so that we can pr ... he best way to go ahead.

Note that since the tool makes a backlink to your information system, we need a URL allowing researchers to get detailed information about the indexed entry directly in your information system.

Overview of the metadata associated to each searchable entry/document

- a short *name* identifying uniquely the entry, ie. `BTH_Le_Moulon_2000_SetA`
- an *url* linking back to the entry in your own web application, ie. https://urgi.versailles.inrae.fr/ephesis/ephesis/viewer.do#trialCard/trialId=56
- a *description*, of the entry that contains all the relevant keywords allowing to find your entry. All the terms of this field are used by the search tool to allow users to find entries
- an *entryType* describing the type of the entry, that could be any of the terms listed in the dedicated section below
- a *species* field, containing the species related to the entry (zero, one or several, but it is highly recommended to provide at least one)
- a *node*, the name of your laboratory/institute, it should be the same for all the entities you manage
- a *databaseName*, the name of the database from which the entry has been extracted. It can differ from one entry to another if you handle several databases

Detailed specifications for the metadata fields

name

↑

The value of the `name` field must be unique in your own dataset and should be clear enough to help scientists to identify at the first glance this entry among the other.

Status	Cardinality	Constraints
Mandatory	1	Unique

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Plans for 2023 (challenges and help)

- ❑ WheatIS data discovery development planned
  - ❑ Challenge: few PM without dedicated hiring
  - ❑ Help: support to institutional boards of direction
- ❑ Perform some videos
  - ❑ Challenge: difficult to have a professional quality
  - ❑ Help: communication people from the WI or budget ?
- ❑ Article on the WheatIS data discovery tool to write
  - ❑ Challenge: little time available

Plans for 2023 (challenges and help)

- Other subjects that will be discussed during the annual assembly at PAG:
  - Website updates
    - Perhaps help needed
  - Future of the files repository
    - Is there a need from other WI EWG ?
  - Standards and nomenclature follow-up
    - Perhaps financial help for meetings

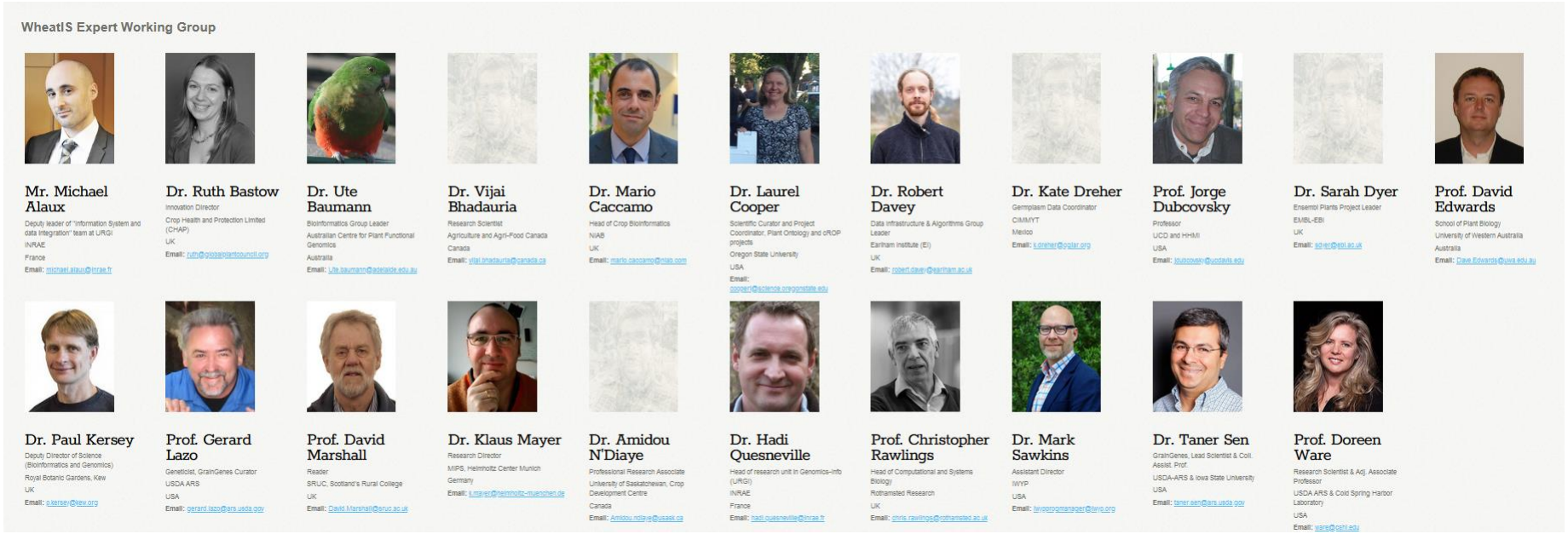
Plans for 2023 (challenges and help)

- For underrepresented countries
  - New EWG members
  - New data sources to index in the WheatIS data discovery tool

Topics that should addressed in partnership with other EWGs

- What are the needs of other EWG in terms of data ?
  - Data discovery: new sources to add ?
  - Files repository to store data ?
  - Guidance about data standards, tools to analyse their data, etc. ?

Acknowledgements



Chair: Michael Alaux
Co-chairs: Taner Sen, Mario Caccamo, Dave Edwards