Easy reporting for diamond open access journals:
OA Switchboard API in the Beilstein Journals editorial workflow

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OASPA / OA Switchboard Webinar
April 20, 2022 / 4 PM CET
Easy reporting for diamond open access journals:

OA Switchboard API in the Beilstein Journals editorial workflow

- Aim of our participation in OAS
- Practical considerations
- Integration into our workflow
- Integration with the OAS API
Diamond unearthed: shining light on community-driven Open Access publishing

- Approximately **29,000 DOA journals** that publish approx. **44% of all OA publications**
- 70% of the OA journals in DOAJ are diamond OA
- Many struggle with technical and financial aspects; most all struggle with **visibility**
- Most are **very small**
- Are often published independent of a publisher
- Most appear to be scholar-led
- Sustainability: many in existence for decades with **very low running costs**

Why we participate in the OA Switchboard

• **Visibility**: communication of diamond OA status (i.e. 0 APCs) to libraries, funders and institutions via “P1 messages”

• **Inclusivity**: to be included in important discussions and infrastructure

• **Low barrier to entry/use**:  
  – For us: only P1 messages are relevant for diamond OA journals; ROR was already in planning; easy one-time setup  
  – For authors: doesn’t further burden authors

• **Contribute**: to be a part of and contribute to the scholarly publishing ecosystem  
  – linking ROR identifiers for the community  
  – Further assistance of diamond OA journals via development of further messages
Easy reporting for diamond open access journals:

OA Switchboard API in the Beilstein Journals editorial workflow

- Aim of our participation in OAS
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- Integration with the OAS API
Practical considerations

• Most important issue: obtaining ROR IDs
  = recipient addresses in OAS

• No involvement of the authors in obtaining ROR IDs
  = no hassle for the authors with third-party APIs in the submission process
  = no need for authors to worry about the concept of ROR IDs

• ROR IDs are obtained during layout
  = with data from the upcoming VoR
  = no uncertainties regarding author affiliations

• One P1 message for each obtained ROR ID is sent to the OAS REST API
  = no auto-CC by OAS
Integration into our workflow

• Beilstein Journals workflow completely based on XML

• All affiliations of a manuscript are kept in a separate list

  <affiliation id="a1">Beilstein-Institut, Frankfurt am Main, Germany</affiliation>

  = Affiliations are linked to the authors via attributes

  <author first-name="Christian" last-name="Lange" affiliations="a1 a3"/>

• Each affiliation from the list is queried separately to the ROR REST API

• Retrieved ROR ID, institution name, and country are stored as child element
  <institution> of the <affiliation> element

  <affiliation id="a1"> Beilstein-Institut, Frankfurt am Main, Germany
    <institution name="Beilstein-Institut" country="Germany" ror=https://ror.org/05jdrrw50>
  </institution>
</affiliation>
Integration into our workflow

• Affiliations are queried to the ROR REST API using the “affiliation” search
  = https://api.ror.org/organizations?affiliation=Beilstein-Institut
  = Response: a list of ROR IDs with a “matching score” from 0 to 1 and a “chosen” flag (yes/no)

• A list of all results with a score greater than 0.8, but at most five results, is given for selection during layout

• Optional: “set no institution” (when no ROR ID is found)
Integration into our workflow

Affiliations overview before query
= content from <affiliation> elements in the article XML
= data as provided in the manuscript

<table>
<thead>
<tr>
<th>Affiliation</th>
<th>Institution</th>
<th>Country</th>
<th>ROR ID</th>
<th>ISNI</th>
<th>Required</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maastricht University, Department of Data Science and Knowledge Engineering, Engineering Faculty, Paul-Henri Spaaklaan 1, 6229 EN, Maastricht, Netherlands</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Department of Electronics and Automation, Vocational High School, Bilecik Şeyh Edebali University, 11230, Bilecik, Turkey</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Beilstein-Institut, Traitehner Strasse 7–9, 60487 Frankfurt am Main, Germany</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Pizzeria &quot;Da Cimino&quot;, Frankfurt am Main, Germany</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Université Paris Cité, Department of Chemistry, 15 Rue Jean Antoine de Baif, 75013 Paris, France</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>University of Kurdistan Hewlêr, Department of Computer Science, 30 Meter Avenue, Erbil, Kurdistan Region, Iraq</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>
Integration into our workflow

ROR query

Edit ROR IDs
Use "Affiliation Search" or "Free Text Search" below to obtain ROR and ISNI IDs.

Affiliation Search: Université Paris Cité, Department of Chemistry, 15 Rue Jean Antoine de Bail, 75013 Paris, France

Free Text Search *

ROR Query Results
No query performed yet.

Set no Institution Cancel

Edit ROR IDs
Use "Affiliation Search" or "Free Text Search" below to obtain ROR and ISNI IDs.

Affiliation Search: Université Paris Cité, Department of Chemistry, 15 Rue Jean Antoine de Bail, 75013 Paris, France

Free Text Search *

ROR Query Results

<table>
<thead>
<tr>
<th>Institution</th>
<th>Country</th>
<th>ROR ID</th>
<th>Score</th>
<th>Chosen</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Paris</td>
<td>France</td>
<td><a href="https://ror.org/05692e399">https://ror.org/05692e399</a></td>
<td>0.90</td>
<td>true</td>
<td>Select</td>
</tr>
<tr>
<td>Paris 13 University</td>
<td>France</td>
<td><a href="https://ror.org/01919hs57">https://ror.org/01919hs57</a></td>
<td>0.85</td>
<td>false</td>
<td>Select</td>
</tr>
<tr>
<td>Université Paris Cité</td>
<td>France</td>
<td><a href="https://ror.org/03b4d4f26">https://ror.org/03b4d4f26</a></td>
<td>0.83</td>
<td>false</td>
<td>Select</td>
</tr>
<tr>
<td>Paris Dauphine University</td>
<td>France</td>
<td><a href="https://ror.org/02522y781">https://ror.org/02522y781</a></td>
<td>0.83</td>
<td>false</td>
<td>Select</td>
</tr>
<tr>
<td>Sorbonne Paris Cité</td>
<td>France</td>
<td><a href="https://ror.org/001221p4">https://ror.org/001221p4</a></td>
<td>0.82</td>
<td>false</td>
<td>Select</td>
</tr>
</tbody>
</table>

Set no Institution Cancel

ROR ID suggested by ROR API

Matching score
**Integration into our workflow**

**Overview of all found ROR IDs**

<table>
<thead>
<tr>
<th>Affiliation</th>
<th>Institution</th>
<th>Country</th>
<th>ROR ID</th>
<th>ISNI</th>
<th>Required</th>
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<td>Maastricht University</td>
<td>Netherlands</td>
<td></td>
<td></td>
<td>Yes</td>
<td>Clear</td>
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<td>Turkey</td>
<td></td>
<td></td>
<td>Yes</td>
<td>Clear</td>
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<td>Bilestein-Institut</td>
<td>Germany</td>
<td></td>
<td></td>
<td>Yes</td>
<td>Clear</td>
</tr>
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<td>Pizzeria &quot;Da Cimino&quot;, Frankfurt am Main, Germany</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Clear</td>
</tr>
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<td>University of Paris</td>
<td>France</td>
<td></td>
<td></td>
<td>Yes</td>
<td>Clear</td>
</tr>
<tr>
<td>University of Kurdistan Hewler, Department of Computer Science, 30 Meter Avenue, Erbil, Kurdistan Region, Iraq</td>
<td>University of Kurdistan Hewler</td>
<td>Iraq</td>
<td></td>
<td></td>
<td>Yes</td>
<td>Clear</td>
</tr>
</tbody>
</table>

- **Hyperlinks to ROR and ISNI IDs**
- **No ROR ID found for this affiliation** (= "set no institution")
- **"ROR ID Required" flag for validation that the query was carried out** (default = yes)
Integration into our workflow

P1 JSON message sent to the OAS API

One P1 message is sent to each found ROR ID

```json
{
  "header": {
    "type": "p1",
    "to": {
      "address": "https://ror.org/02jz4aj89"
    }
  }
}
```

Diamond OA-relevant data are communicated

```
"charges": {
    "prioragreement": false,
    "currency": "EUR",
    "fees": {
        "apc": {
            "name": "firm",
            "type": "per article APC list price",
            "amount": 0
        },
        "total": {
            "name": "firm",
            "amount": 0
        }
    }
}
```

"APC = 0 EUR"

"Total article charges = 0 EUR"
Integration with the OAS API (test system)

Successful POST of P1 messages

Your p1 message has been successfully submitted

Messages are accordingly displayed in the OAS dashboard
Thank you.

Contact:
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https://www.linkedin.com/in/pattersonwendy/