Advancing Digitization of Biodiversity Collections (ADBC) Program Update – FY2011-18

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Division of Biological Infrastructure
Directorate for Biological Sciences
National Science Foundation
ADBC Program Stats

First projects funded in FY 2011

- TCN Projects Funded: 22 (3 new this year)
- PENs Funded: 27
- Proposals funded: 241
  - Active: 164 (33 new this year)
  - Closed: 73
## Completed TCNs

<table>
<thead>
<tr>
<th>Year Initiated</th>
<th>Project</th>
<th>Lead PI</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>TriTrophicTCN</td>
<td>Schuh, Randall T.</td>
</tr>
<tr>
<td>2011</td>
<td>InvertNet</td>
<td>Dietrich, Christopher H.</td>
</tr>
<tr>
<td>2011</td>
<td>Lichens and Bryophytes</td>
<td>Gries, Corinna</td>
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<tr>
<td>2012</td>
<td>Macrofungi</td>
<td>Thiers, Barbara M.</td>
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<tr>
<td>2012</td>
<td>PaleoNiches</td>
<td>Lieberman, Bruce S.</td>
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<tr>
<td>2012</td>
<td>SCAN</td>
<td>Cobb, Neil S.</td>
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<td>2012</td>
<td>NE Vascular Plants</td>
<td>Sweeney, Patrick</td>
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<tr>
<td>2013</td>
<td>Animal Communications</td>
<td>Webster, Michael S.</td>
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</table>
## Active Projects

<table>
<thead>
<tr>
<th>Year Initiated</th>
<th>Project</th>
<th>Lead PI</th>
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</thead>
<tbody>
<tr>
<td>2013</td>
<td>Fossil Insects</td>
<td>Karim, Talia S.</td>
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<tr>
<td>2014</td>
<td>InvertEBase</td>
<td>Sierwald, Petra</td>
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<td>2014</td>
<td>SERNEC</td>
<td>Murrell, Zack E.</td>
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<td>2014</td>
<td>Great Lakes Invasives</td>
<td>Cameron, Kenneth M.</td>
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<tr>
<td>2015</td>
<td>Microfungi</td>
<td>Miller, Andrew N.</td>
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<td>2015</td>
<td>EPICC</td>
<td>Marshall, Charles R.</td>
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<td>2016</td>
<td>MAM</td>
<td>Skema, Cynthia</td>
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<td>2016</td>
<td>Cretaceous World</td>
<td>Lieberman, Bruce S.</td>
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<td>2016</td>
<td>LepNet</td>
<td>Cobb, Neil S.</td>
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<tr>
<td>2017</td>
<td>oVert</td>
<td>Blackburn, David C.</td>
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<tr>
<td>2017</td>
<td>SoRo</td>
<td>Tripp, Erin A.</td>
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</tbody>
</table>
## New TCNs

<table>
<thead>
<tr>
<th>Year Initiated</th>
<th>Project</th>
<th>Lead PI</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>Endless Forms</td>
<td>Pace, Matthew</td>
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<tr>
<td>2018</td>
<td>Calflora 2.0</td>
<td>Yost, Jennifer</td>
</tr>
<tr>
<td>2018</td>
<td>Pteridophyte Consortium</td>
<td>Rothfels, Carl</td>
</tr>
</tbody>
</table>
Annual reports – important info

Figure 1. Percentage of specimens by stage of completion and herbarium for MAM TCN. With this presentation of digitization progress, the final goal for each institution is to have a mostly green column above the X axis (could potentially have orange up to roughly 10%). Note that CM only recently completed imaging training. (Specimens not yet in workflow are set as negative numbers.)

Figure 2. Number of specimens by stage of completion and herbarium for MAM TCN. With this presentation of digitization progress, the final goal for each institution is to have a mostly green column above the X axis (could potentially have orange up to roughly 10%). Note that CM only recently completed imaging training. (Specimens not yet in workflow are set as negative numbers.)

MAM TCN – 2018 Annual Summary Report
A D B C Project Outreach

Undergraduate researcher Paige Hodges in the Burke lab at Howard University produced three outreach videos to highlight the importance of natural history collections.

YouTube:
- What Type of Research Can You Do With Natural History Collections? https://youtu.be/bmhrn8LZIDY
- How to Find a Lab With Natural history Collections?: https://youtu.be/zLye0qz1_hw
- Why Does Research with Natural History Collections Matter?: https://youtu.be/6oRs0BRb400
Community priorities for collections

- **BCON** – Biodiversity Collections Network
  - Building a Community to Advance and Sustain Digitized Biocollections
  - [https://bcon.aibs.org](https://bcon.aibs.org)
- **Professional Societies**, e.g., SPNHC, TDWG
- **Workshops**
- **Serve on a panel**
- **New**: National Academies Study
Green report on federal agency infrastructure
National Academies Study

Changes in the Division of Biological Infrastructure

Effective now, all proposals submitted to the Research Resource cluster in the Division of Biological Infrastructure (DBI) should be directed to either the

Infrastructure Innovation for Biological Research (IIBR, NSF 18-595)
or the
Infrastructure Capacity for Biology (ICB, NSF 18-594)

solicitations, neither of which has a deadline.
What is **NOT** Changing?

- The following programs will continue to have their own solicitations:
  - **ADBC** (Advancing Digitization of Biodiversity Collections)
  - **REU** (Research Experiences for Undergraduate Students)
  - **PRFB** (Postdoctoral Research Fellowships Program)
  - **RCN-UBE** (Research Coordination Networks for Undergraduate Biology Education -iUSE)
  - CAREER, Conference and Workshops, EAGERS, RAPIDS, RAISES, RCNs, Supplements to existing awards
Alignment of Previous Programs with New Solicitations

• **Infrastructure Innovation for Biological Research (IIBR):**
  – ABI (Innovation Track)
  – IDBR (Type A Track)
  – Multidisciplinary (New)

• **Infrastructure Capacity for Biology (ICB):**
  – ABI (Development Track)
  – IDBR (Type B Track)
  – FSML
  – CSBR

For ABI Sustaining proposals – please call your Program Officer
Limits on number of proposals per P.I. or co-P.I. within a fiscal year (Oct.-Sept.)

• The number of proposals per P.I. or co-P.I. that can be submitted to IIBR or ICB are:
  – Two per the IIBR solicitation of which one must be to the Rules of Life Track or
  – One to each of the new DBI solicitations, (IIBR or ICB) or
  – Two per the ICB solicitation, but only one per program within the ICB solicitation

• There is no limit on Senior Personnel or subawards etc.