SerproMail **lfranco@jbrj.gov.br**

Rio de Janeiro Botanical Garden makes genetic collections discoverable

De : Barker, Katharine B. <0000013bbdada19e-dmarc-request@SI-LISTSERV.SI.EDU> seg, 02 de mar de 2020 16:04
2 anexos

Remetente : GGBN-Info <GGBN-INFO@SI-LISTSERV.SI.EDU>

Assunto : Rio de Janeiro Botanical Garden makes genetic collections discoverable

Para : GGBN-INFO@SI-LISTSERV.SI.EDU

Responder para : Barker, Katharine B. <BarkerK@SI.EDU>

Dear GGBN colleagues,

We are happy to announce that the Rio de Janeiro Botanical Garden has made more than 6,500 DNA and tissue samples of Brazilian plants discoverable through the GGBN data portal, adding approximately 250 new genera and 1,200 species to GGBN. Statistics for Rio de Janeiro Botanical Garden/Brazil can be found on the GGBN website.

With Warm Regards,
Katie Barker

Supervisory Program Manager, Global Genome Initiative and Global Genome Biodiversity Network
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FaceBook (Spanish): https://www.facebook.com/ggbnespanol/
Twitter: https://twitter.com/GGBNOutreach

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RE: GGI-Gardens Award Report - thank you!

De : Chadderdon, Alysha <ChadderdonA@si.edu> qui, 05 de mar de 2020 16:10
Assunto : RE: GGI-Gardens Award Report - thank you!
Para : 'Luciana Ozório Franco' <lfranco@jbrj.gov.br>
Cc : mgostel <mgostel@brit.org>, Barker, Katharine B. <BarkerK@si.edu>

=) Thank you so much for sharing the photos with us!

From: Luciana Ozório Franco <lfranco@jbrj.gov.br>
Sent: Thursday, March 5, 2020 12:28 PM
To: Chadderdon, Alysha <ChadderdonA@si.edu>
Cc: mgostel <mgostel@brit.org>; Barker, Katharine B. <BarkerK@si.edu>
Subject: Re: GGI-Gardens Award Report - thank you!

External Email - Exercise Caution
Thank you so much! We loved it!

De: "Alysha Chadderdon" <ChadderdonA@si.edu>
Para: "Luciana Ozório Franco" <lfranco@jbrj.gov.br>, "mgostel" <mgostel@brit.org>
Cc: "Barker, Katharine B." <BarkerK@si.edu>
Enviadas: Quinta-feira, 5 de março de 2020 13:36:38
Assunto: RE: GGI-Gardens Award Report - thank you!

Hello Luciana!

On Monday you probably noticed that we announced to the GGBN community that your data is published to the portal. However we completely forgot we were also wanting to share your amazing photos! We just added another post to the GGBN page and shared it with the GGI page as well. Please feel free to share!

https://www.facebook.com/ggbnoutreach/
https://www.facebook.com/ggismithsonian/

Alysha

Alysha Chadderdon
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Global Genome Biodiversity Network
5 de março ·

As announced on Monday, we're celebrating with the team from Rio de Janeiro Botanical Garden this week, as they are seeing the fruits of their efforts published to the GGBN Data Portal. These samples are published as a result of receiving funding through the 2018 GGBN-GGI Award and 2018 GGI-Gardens Partnership Award. Thanks to Marcus Nadruz, Juliana Ribeiro de Mattos, and Luciana Ozório Franco for sharing their photos with us!

39 1 comentário 29 compartilhamentos

Smithsonian's Global Genome Initiative
@ggismithsonian

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Smithsonian's Global Genome Initiative
5 de março ·

Rio de Janeiro Botanical Garden recently made more than 6,500 DNA and tissue samples of Brazilian plants discoverable through the GGBN data portal, adding approximately 250 new genera and 1,200 species to GGBN. This was made possible through funding from the GGBN-GGI Awards Program and the GGI-Gardens Partnership Awards Program. Congratulations to the team! Statistics on the records can be found here: http://www.ggbn.org/ggbn_portal/stats/details…

> **Global Genome Biodiversity Network**
> 5 de março ·
>
> As announced on Monday, we're celebrating with the team from Rio de Janeiro Botanical Garden this week, as they are seeing the fruits of their efforts published...
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@JardimBotanicoRJ

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Jardim Botânico do Rio de Janeiro
5 de março ·

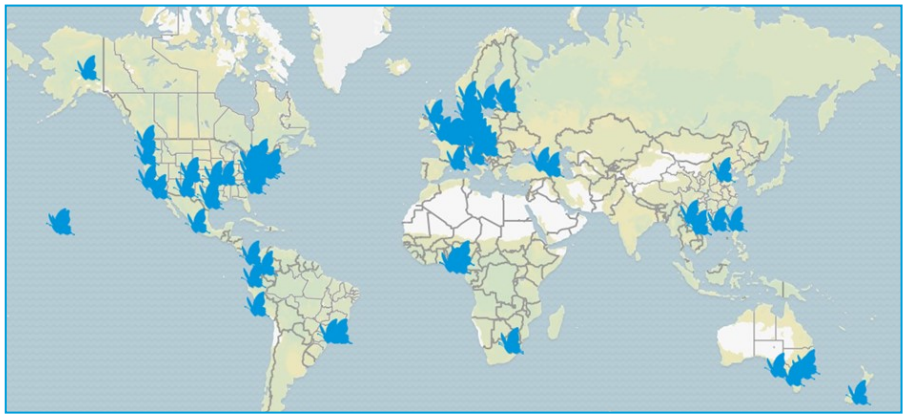
JBRJ internacionaliza dados de coleções genéticas - Desde 2 de março de 2020, o Jardim Botânico do Rio de Janeiro disponibiliza os dados de mais de 6500 amostras de DNA e de tecidos de plantas brasileiras no portal GGBN (Global Genome Biodiversity Network). São aproximadamente 250 novos gêneros e 1200 espécies que passam a fazer parte do banco de dados acessível aos pesquisadores da área e ao público em todo o mundo.

Essa contribuição do JBRJ ao GGBN resulta de dois projetos financiados durante um ano pelo Smithsonian Institution (GGBN-GGI e GGI-Gardens Award Program 2018). O primeiro projeto previa a publicação da coleção do Banco de DNA do JBRJ (RBdna) e o segundo a criação e publicação de uma nova coleção (RBtecido). A nova coleção abrange amostras de tecidos foliares de espécimes do arboreto do Jardim Botânico do Rio de Janeiro, principalmente aqueles de espécies ameaçadas e/ou exclusivas da coleção de plantas vivas da instituição. Essas amostras passaram por um tratamento especial de secagem das folha coletadas, de forma a manter a integridade de seus DNAs, e estão depositadas no herbário RB, do Jardim Botânico.

O trabalho foi coordenado pelos tecnologistas Luciana Franco e Luis Alexandre Estevão da Silva com equipe formada por Juliana Ribeiro Mattos, João Monnerat Lanna, Felipe Alves de Oliveira e os coletores Ricardo Matheus e Fabiano Rodrigues, numa colaboração entre o Laboratório de Biologia Molecular, Laboratório de Sementes, Núcleo de Computação Científica e Geoprocessamento (NCCG) e a Coordenação de Coleções Vivas do JBRJ.

#SmithsonianGGI

Membership Update



New Members

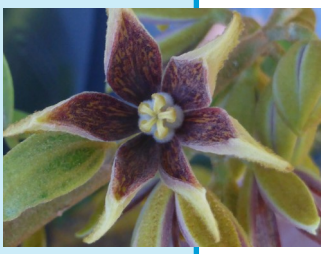
Since March 2018, twenty new members have joined GGBN. These include: 1) Universidad Autónoma de Aguascalientes/Mexico, 2) Fundação Oswaldo Cruz(FIOCRUZ)/Brazil, 3) Manaaki Whenua-Landcare Research/New Zealand, 4) Institute of Ecology and Biological Resources, Vietnam Academy of Science and Technology/Vietnam, 5) Southern China DNA Barcoding Center, Kunming Institute of Zoology, Chinese Academy of Sciences/China, 6) Natural History Museum of Los Angeles County/United States, 7) NBIC/Botanical Society of Nigeria, 8) NBIC/Delta State University, Department of Animal and Environmental Biology, Entomology Unit/Nigeria, 9) NBIC/University of Lagos, Molecular Systematics Laboratory, Department of Botany/Nigeria, 10) NBIC/Sheda Science And Technology Complex/Nigeria, 11) NBIC/Biodiversity Education and Resource Centre/Nigeria, 12) NBIC National Biodiversity Information Consortium/Nigeria, 13) Yale Peabody Museum/United States, 14) North Carolina Museum of Natural Sciences/United States, 15) Arctos Consortium/United States, 16) National Tropical Botanical Garden/United States, 17) Dr. Cecilia Koo Botanic Conservation Centre/Taiwan, 18) Canadian Museum of Nature/Canada, 19) Botanical Research Institute of Texas/United States, 20) Natural History Museum and Botanical Garden, University of Tartu/Estonia.

As of March 2019 there are 87 members.

Contributing Members

Arctos Consortium/United States, African Centre for DNA Barcoding/South Africa, Austrian Institute of Technology/Austria, Beijing Genomics Institute-China National Genebank/China, Biodiversity Research and Teaching Collections, Texas A&M/United States, Botanic Garden and Botanical Museum, Berlin-Dahlem/Germany, Centre for Biodiversity Genomics, University of Guelph/Canada, Centro de Ornitologia y Biodiversidad/Peru, Charles University/Czech Republic, Denver Botanic Gardens/United States, Institute of Vertebrate Biology, The Czech Academy of Sciences/Czech Republic, University of Kansas Biodiversity Institute and Natural History Museum/United States, Leibniz Institute DSMZ/Germany, Museum of Comparative Zoology, Harvard University/United States, Museo de Zoología, QCAZ/Ecuador, Museum für Naturkunde/Germany, National Museum, Prague/Czech Republic, South African National Biodiversity Institute - National Zoological Gardens of South Africa/South Africa, Hungarian Natural History Museum/Hungary, Natural History Museum Denmark/Denmark, Natural History Museum London/United Kingdom, Natural History Museum of Oslo/Norway, National Museum of Natural History, Smithsonian/United States, New York Botanical Garden/United States, Ocean Genome Legacy/United States, Rio de Janeiro Botanical Garden/Brazil, Royal Botanic Gardens Kew/United Kingdom, Senckenberg Frankfurt/Germany, Universidad Autónoma de Aguascalientes/Mexico, University of Tartu/Estonia, Yale Peabody Museum/United States, Zoological Research Museum Alexander Koenig/Germany.

Pterygota brasiliensis is a native and endemic Brazilian species. Leaf tissues of this taxa, absent from any other biorepository, were sampled and are being preserved at Rio de Janeiro Botanical Garden. Printed with permission from Instituto de Pesquisas Jardim Botânico do Rio de Janeiro.



In 2019 GGBN had an average total of 800 visitors and 149-2000 data queries per month (excluding visits on text pages). To date, 28 members are providing data to the GGBN data portal (see Table 2 right).

National Tropical Botanic Garden Herbarium Curator Tim Flynn (left) instructs intern Kelli Jones (right) on herbarium voucher specimen collection and pressing techniques. Photo credit: Seana Walsh and Dustin Wolkis, NTBG

The team from Rio de Janeiro Botanical Garden recently published 6,572 records to the GGBN Data Portal , representing DNA and tissue samples of Brazilian plants, Photo credit: Luciana Ozório Franco.

Table 2.

Core Member Institution	Records On GGBN
African Centre for DNA Barcoding, University of Johannesburg	13,169
Arctos/Denver Museum of Nature & Science	31,187
Arctos/Museum of Southwestern Biology	584,092
Arctos/University of Alaska Museum of the North	205,682
Arctos/University of California, Berkeley, Museum of Vertebrate Zoology	166,210
Biodiversity Research and Teaching Collections, Texas A&M University	44,708
Botanic Garden and Botanical Museum Berlin	34,913
Centre for Biodiversity Genomics	3,001,030
Centro de Ornitología y Biodiversidad	8,972
Charles University in Prague	1,027
China National GeneBank	235
Denver Botanic Gardens	1,149
Institute of Vertebrate Biology, The Czech Academy of Sciences	9,018
Leibniz Institute DSMZ	37,282
Manaaki Whenua-Landcare Research	8,636
Museo de Zoología, Pontificia Universidad Católica del Ecuador	61,297
Museum für Naturkunde	16,158
National Museum of Natural History (USA)	221,882
Natural History Museum of Denmark	1,271
Natural History Museum London	43,829
Natural History Museum of Oslo	252,317
New York Botanical Garden	523
Ocean Genome Legacy	6,490
Rio de Janeiro Botanical Garden	6,572
Royal Botanic Gardens, Kew	3,536
Senckenberg Frankfurt and BiK-F	3,804
University of Kansas Biodiversity Institute	14,247
Zoological Research Museum Alexander Koenig	21,497

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The GGI Gap Analysis Tool

Ready to start collecting for GGI-Gardens or want to continue to collect but not sure which species you should collect? The GGI Gap Analysis Tool will allow you to insert the genera (or higher taxonomic levels) present in your collection and will tell you if they are in GGBN or not. Genera missing from GGBN are high priority for GGI-Gardens collection. A written user guide found on the Gap Analysis Tool page will help you analyze your collection records list using the tool. Partners submitting applications for the GGI-Gardens or GGI Awards Programs should use this tool to assess the taxonomic novelty of their proposal.

GGI Gardens Partners 2020

USA

Botanical Research Institute of Texas
Chicago Botanical Gardens
Denver Botanical Garden
Desert Botanical Garden
Fort Worth Botanic Garden
Huntington Botanic Garden
Lady Bird Johnson Wildflower Center
Longwood Gardens
Lyon Arboretum
Memphis Botanic Garden
Mercer Botanical Garden
Missouri Botanical Garden
National Tropical Botanical Garden
New York Botanical Garden
Smithsonian Gardens
The John Fairey Garden (formerly Peckerwood Garden)
University of California Berkeley Botanical Garden
US Botanical Gardens
USDA National Arboretum

International

Botanischer Garten, Karl-Franzens-Universität Graz, Austria
Botanical Garden, Natural History Museum of Denmark
Dr. Cecilia Koo Botanic Conservation Center, Taiwan
Fairy Lake Botanical Garden, China
Jardim Botânico do Rio de Janeiro, Brazil
Jardín Botánico, Universidad Nacional Autonoma de Mexico (UNAM)

Events

Global Genome Biodiversity Network Conference has been postponed until March 2021.

American Public Gardens Association 2020 Conference, (June 22-26th, 2020 in person conference has been **cancelled**). More information here on a 2020 Virtual Conference.