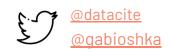


Open Infrastructure in action: the PID Graph

Gabriela Mejias

14 November 2022 EOSC Symposium 2022







PIDs for places, people, and things

PIDs for people (researchers) include ISNIs and ORCID iDs



https://orcid.org/0000-0001-6622-4910



PIDs for institutions (research organizations) including ROR



https://ror.org/01y2jtd41



PIDs for things (research outputs) include DOIs, handles, IGSNs, ARKs, and more



https://doi.org/10.5061/dryad.708gr



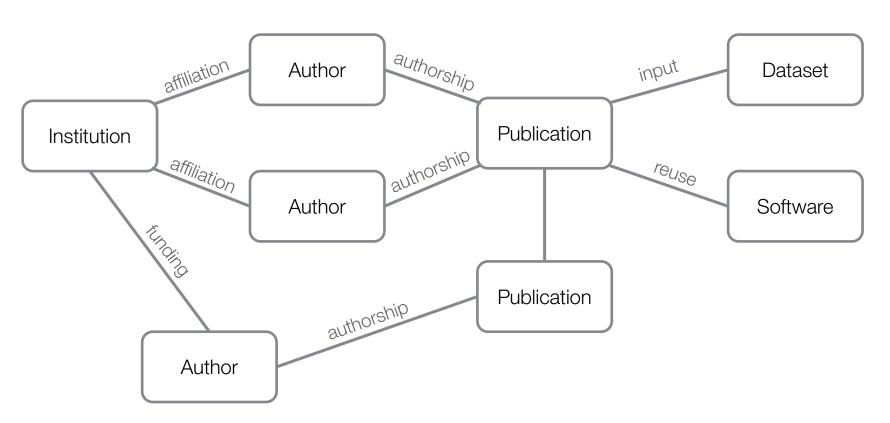
FAIR principles."

"....PIDs (and the associated metadata) are an

essential component for the implementation of the

Research is already a graph





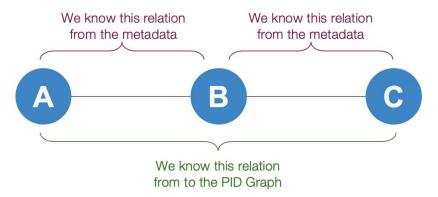
The PID Graph



Having unique persistent identifiers for researchers and their outputs is crucial to connecting pieces of the research landscape together.

PIDs already have the potential to enable the connected research graph, but we're not yet taking full advantage of their connecting powers.

We can now clearly link PIDs together via relations in their metadata to enable the discovery of connections at least two "hops" away







Citations







References







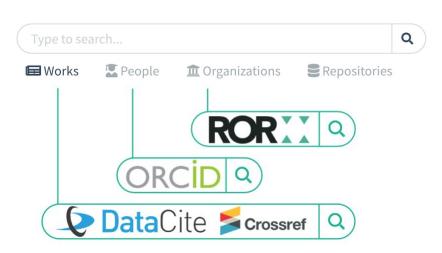
Relations

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Find and Connect Research

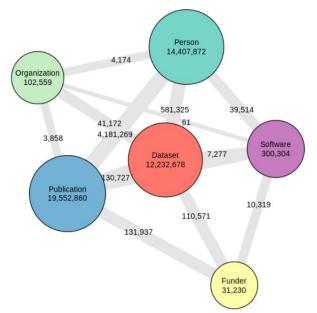


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PID Graph

Number of nodes and connections (August 2022)



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a from: Impact of negative frequency-dependent selection on mating pattern and genetic acture: a comparative analysis of the S-locus and nuclear SSR loci in Prunus lannesiana var. ciosa

Shuri, Teruyoshi Nagamitsu, Hiroyoshi Iwata, Yoshihiko Tsumura, Yuzuru Mukai, K Michiharu. K Saika & K Junko on 1 of Dataset published 2012 in DRYAD

ng processes of local demes and spatial genetic structure of island populations at the self-incompatibility (S-) locus under negative iency-dependent selection (NFDS) were evaluated in Prunus lannesiana var. speciosa in comparison with nuclear simple sequence at (SSR) loci that seemed to be evolutionarily neutral. Our observations of local mating patterns indicated that male-female pair ndity was influenced by not only self-incompatibility, but also various factors such as kinship, pollen production and flowering hrony. In spite of the mating bias caused by these factors, the NFDS effect on changes in allele frequencies from potential mates to ng pollen was detected at the S-locus but not at the SSR loci although the changes from adult to juvenile cohorts were not rent at any loci. Genetic differentiation and isolation-by-distance over various spatial scales were smaller at the S-locus than at the oci, as expected under the NFDS. All ele sharing distributions among the populations also had a unimodal pattern at the S-locus, ating the NFDS effect except for alleles unique to individual populations probably due to isolation among islands, although this rn was not exhibited by the SSR loci. Our results suggest that the NFDS at the S-locus has an impact on both the mating patterns the genetic structure in the P. lannesiana populations studied.

egistered April 17, 2012 via DataCite.



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4 https://doi.org/10.5061/dryad.7c425

Cited dataset

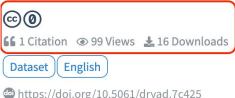


Data from: Impact of negative frequency-dependent selection on mating pattern and genetic structure: a comparative analysis of the S-locus and nuclear SSR loci in Prunus lannesiana var. speciosa

Kato Shuri, Teruyoshi Nagamitsu, Hiroyoshi Iwata, Yoshihiko Tsumura, Yuzuru Mukai, K Michiharu, K Saika & K Junko Version 1 of Dataset published 2012 in DRYAD

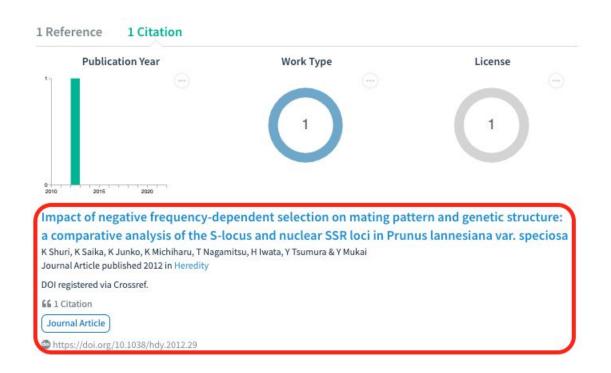
Mating processes of local demes and spatial genetic structure of island populations at the self-incompatibility (S-) locus under negative frequency-dependent selection (NFDS) were evaluated in Prunus lannesiana var. speciosa in comparison with nuclear simple sequence repeat (SSR) loci that seemed to be evolutionarily neutral. Our observations of local mating patterns indicated that male-female pair fecundity was influenced by not only self-incompatibility, but also various factors such as kinship, pollen production and flowering synchrony. In spite of the mating bias caused by these factors, the NFDS effect on changes in allele frequencies from potential mates to mating pollen was detected at the S-locus but not at the SSR loci although the changes from adult to juvenile cohorts were not apparent at any loci. Genetic differentiation and isolation-by-distance over various spatial scales were smaller at the S-locus than at the SSR loci, as expected under the NFDS. All ele sharing distributions among the populations also had a unimodal pattern at the S-locus, indicating the NFDS effect except for alleles unique to individual populations probably due to isolation among islands, although this pattern was not exhibited by the SSR loci. Our results suggest that the NFDS at the S-locus has an impact on both the mating patterns and the genetic structure in the P. lannesiana populations studied.

DOI registered April 17, 2012 via DataCite.



Surfacing the citation





Supporting recognition



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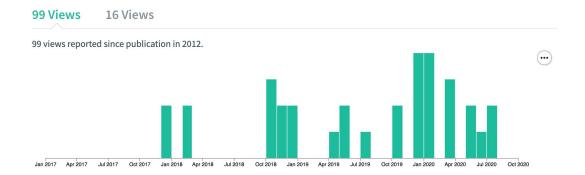
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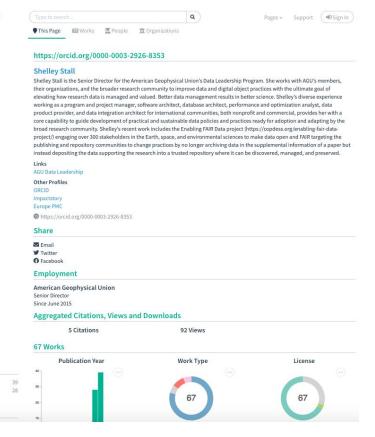
Leveraging ORCID iDs



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Leveraging citations & usage



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EOSC PID Graph





Services for providing access to the PID Graph, which is made up of links and records gathered from persistent identifier (PID) authority data sources. PID metadata access APIs, software components supporting Open Science graph interoperability (sharing of graph data), and extension of the authoritative sources enabling links between PID entities are some of the services that will be provided.

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