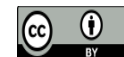# Crossref: infrastructure and services for scholarly comms

Presented at a MedComms Networking event
4 January 2017
www.MedCommsNetworking.com

We are Crossref, a not-for-profit membership organization for scholarly publishing, working to make content easy to find, cite, link and assess. We do it in five ways: rallying the community; tagging metadata; running a shared infrastructure; playing with new technology; and making tools and services to improve research communications.

It's as simple—and as complicated—as that.

Crossref

About us

- Founded in 2000 with 12 publishers

- Not for profit membership organization

- 30 staff based in Oxford, UK and Boston, USA
  - ➤ outreach, tech, development, product, operations

- Publishers, libraries, sponsors, affiliated organizations, researchers, all use our services.

Crossref overview

- 5500 publisher members
- Metadata store of over 85 million scholarly content items
- Persistent citation linking
- Funder identifiers
- Report and display corrections & retractions
- Check manuscripts for similarities
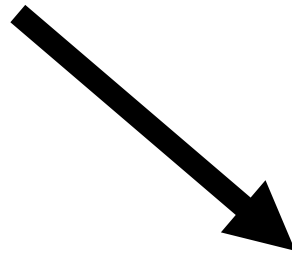- Open Metadata API & Search

Publishers join

- To help their content get discovered
- Show people where it's located and update that if the content moves
- Drives traffic to publications
- Lets them participate in other collaborative services

Crossref DOIs help to uniquely identify and therefore link content

User clicks on CrossRef DOI reference link in Journal A

User accesses cited article in Journal B

Tani, N., N. Tomaru, M. Araki, AND K. Ohba. 1996. Genetic diversity and differentiation in populations of Japanese stone pine (*Pinus pumila*) in Japan. *Canadian Journal of Forest Research* 26: 1454–1462.[CrossRef]

Canadian Journal of Forest Research

Canadian access to full text made available through the Depository Services Program

Can. J. For. Res. **26**(8): 1454–1462 (1996) | doi:10.1139/x26-162 | © 1996 NRC Canada
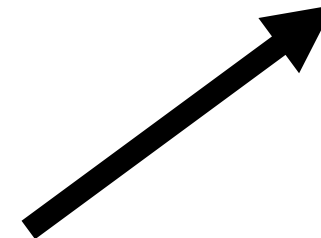
Genetic diversity and differentiation in populations of Japanese stone pine (*Pinuspumila*) in Japan

Naoki Tani, Nobuhiro Tomaru, Masayuki Araki, and Kihachiro Ohba

Abstract: Japanese stone pine (*Pinuspumila* Regel) is a dominant species characteristic of alpine zones of high mountains. Eighteen natural po distribution of genetic diversity. The extent of genetic diversity within this species was high ($H_T = 0.271$), and the genetic differentiation amon

In previous studies of *P. pumila* in Russia, the genetic variation within the species was also high, but the genetic differentiation among popula geographic distribution and ecological differences between the two countries. The genetic variation within each population tended, as a whole, populations. Genetic relationships among populations reflect the geographic locations, as shown by unweighted pair-group method with arithn

Résumé : *Pinuspumila* Regel constitue au Japon une espèce dominante et caractéristique des zones alpines de hautes montagnes. Les auteurs e naturelles de cette espèce. Comparativement aux autres espèces conifériennes, la diversité génétique était élevée ($H_T = 0.271$) et la différenciat réalisées chez les populations russes de *P. pumila* ont aussi révélé un niveau élevé de diversité génétique, mais la différenciation de population différences au niveau de la distribution géographique et de différences écologiques entre les deux pays. En général, la variabilité génétique étai comparativement aux populations septentrionales. Les relations génétiques observées parmi les populations, telles qu'estimées à partir d'arbres représentatives de la proximité géographique des populations.

[Traduit par la Rédaction]

Crossref DOI directory returns URL

85,000,000 content items

Content types

- Journals
- Books
- Conference proceedings
- Standards
- Technical reports
- Working Papers
- Theses and dissertations
- Components (figures, tables)
- Datasets (supplementary data)
- Databases
- Posted content (includes preprints)

Publishers

Crossref

Basic metadata
Titles, authors, ISSNs, ISBNs
Journal articles, conference proceedings, data, standards

Funding Information

Funder identifiers, award numbers

License Information
License URIs (NISO ALI)

Full-text locations
URIs direct to full-text articles (used in TDM)

Significant updates
Retractions, corrections

ORCIDs

Metadata Out

- Search and indexing services
  - On Crossref site
  - On partner sites (e.g. ORCID)
- Enhanced Crossref metadata services
  - Organizations that want to supplement metadata from other sources
  - Organizations providing citation metrics
  - Document delivery providers
  - Discovery services
  - Search engines
  - Content aggregators

Thank you!

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