

FII Research Project Metadata

The following questions must have answers before an FII project metadata record can be created on NRIN:

1. If this project is a continuation of a 2002-03 FII funded project, does FORREX have permission to post the project summary/report on the Internet in the FII Research Project Repository (select one)?
Note: Posting to the Internet has implications for researchers who wish to submit the report to journals. If they do not want the report posted, they will have 1 year before its posted.

Yes, post the report for XXX on the Internet

No, do not post the report on the Internet

This is not a continuation of a 2002-03 FII funded project

2. FII Project Number:

R04-013

3. Project Name:

Maximizing Natural Durability of Western Redcedar: Beyond Thujaplicins

4. Recipient Organization:

Forintek Canada Corp.

5. Proponent:

Mr. Bob Daniels

6. Contact Information (must have name, organization and either phone number or email):

Name:

Mr. Bob Daniels

Organization:

Forintek Canada Corp.

Phone:

604-224-3221

Email:

bdaniels@van.forintek.ca

Mailing address (optional):

2665 East Mall

Vancouver, BC

V6T 1W5

Fax:

604-222-5690

7. Project Description:

Our overall objective of developing an HPLC-based system for predicting the stain- and decay-resistance of standing western red-cedar focuses on filling a key data gap in decision making around sustainable forest health and stand management, the selection of planting stock, and marketing of western red-cedar timber products. The critical-path objective of the proposed research is to determine which heartwood extractives, besides the thujaplicins, effectively inhibit the growth of stain and/or decay fungi. Previous work has shown that the decay resistance of western red-cedar does not correlate with thujaplicin content. The proposed research encompasses: (1) development of a novel and innovative microbioassay for assessing the extractives responsible for fungal decay resistance of western red-cedar heartwood, (2) preparing extracts from both fresh and previously examined heartwood material (assayed using our existing chromatographic method), (3) testing of said extracts for biological activity, and (4) bioassay-guided isolation of all antifungal compounds detected in the extracts.

8. Presentation format of the data in this project (select one):

- | | | |
|-------------------------------------|---|---|
| <input type="checkbox"/> Collection | <input type="checkbox"/> Inventory | <input type="checkbox"/> Publication |
| <input type="checkbox"/> Data Set | <input type="checkbox"/> Map | <input type="checkbox"/> Research Trial |
| <input type="checkbox"/> Database | <input type="checkbox"/> Presentation | <input type="checkbox"/> Web Page |
| <input type="checkbox"/> Image | <input checked="" type="checkbox"/> Project | <input type="checkbox"/> Other |

9. Level of peer review this project has received (select one):

Not Available - The level of peer review is unknown.

None - No review. May also be associated with "perspective" or "opinion" pieces.

Limited - Associated with review by 1-2 topical experts within the author's own organization.

Professional - Includes review by at least 3 topical experts outside of the author's organization. Often involves an open review process where the authors and reviewers are known to each. Generally at least 3 reviewers.

Scientific - Usually associated with publishing in a peer-reviewed journal. Often a blind process in which the reviewers and authors are not known to each other. Generally 3 or more reviewers.

- | | | |
|--|---|-------------------------------------|
| <input type="checkbox"/> Not Available | <input checked="" type="checkbox"/> Limited | <input type="checkbox"/> Scientific |
| <input type="checkbox"/> None | <input type="checkbox"/> Professional | |

10. Main topic-focus of this project (select all that apply):

- | | | |
|--|--|---|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Fishery | <input type="checkbox"/> Physiology |
| <input type="checkbox"/> Biodiversity | <input checked="" type="checkbox"/> Forestry | <input type="checkbox"/> Policy |
| <input type="checkbox"/> Biology | <input type="checkbox"/> Genetics | <input type="checkbox"/> Range |
| <input checked="" type="checkbox"/> Biometrics | <input type="checkbox"/> Geology | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Chemistry /
biochemistry | <input type="checkbox"/> Geomorphology | <input type="checkbox"/> Silviculture/Forest
Management Systems |
| <input type="checkbox"/> Climate | <input type="checkbox"/> Hydrology | <input type="checkbox"/> Socio-economics |
| <input type="checkbox"/> Earth Sciences | <input type="checkbox"/> Indigenous knowledge | <input type="checkbox"/> Technology / GIS /
Modeling / Remote
Sensing |
| <input type="checkbox"/> Ecology | <input type="checkbox"/> Integrated resource
management | <input type="checkbox"/> Wildlife |
| <input type="checkbox"/> Entomology | <input type="checkbox"/> Inventory | <input checked="" type="checkbox"/> Wood Science |
| <input type="checkbox"/> Extension | <input type="checkbox"/> Landscape ecology | |
| <input type="checkbox"/> Fire | <input type="checkbox"/> Other | |
| <input type="checkbox"/> First Nations | <input type="checkbox"/> Pathology | |

11. How current is the data used in this project? This can be a year or year and month or year, month, day. It can be a single date, multiple dates or a range of dates.

Example: a report might be created March 31, 2004 of a study conducted in 2003. In this example, 01/01/2003 – 31/12/2003 would be the date used.

09/08/2003 – 31/03/2004

12. Area of BC or North America this project is relevant to. This can be multiple names of places, areas, regions, administrative areas, watersheds, etc.

Example: 1 project could contain all of: BC; Okanagan; Kelowna; Mission Creek

Area: BC

Geospatial coordinates in longitude and latitude:

Below are the coordinates used for BC. If different coordinates are known, please change them.

North: 60.0

East: -114.0

South: 48.0

West: -139.0

All mandatory questions are complete.

To create a comprehensive metadata record please spend a few more minutes completing some of the optional questions below. This will provide users with more information about the project and make it easier to find the project when searching through thousands of other projects.

13. FII Funding Amount:

\$74,340.00

14. Project keywords:

Between 5 – 10 terms are recommended and multiple-word terms are permitted.

FII

Western Red-cedar

Natural durability

Heartwood extractives

Forest management

Thujaplicins

15. Source data sets or related information used in the project:

16. Organizations or individuals who should get credit for support, funding, data collection or analysis:

Dr. John Russell – B.C. Ministry of Forests

17. Methodology used throughout the project:

18. If the project data is available for distribution please provide the contact information of the distributor:

19. Legal restrictions on who may access the data:

20. Fees associated with accessing the data:

21. The form of the data:

Example: spreadsheet, ascii file, gis layer, database, etc