



From Dublin Core to MARC

Crosswalking ETD Metadata from Digital Commons to the Library Catalog

Presented by:

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Zhonghua Du, Florida International University
Rebecca Bakker, Florida International University*

Outline

- *FIU ETD Program Background and Workflows*
- *Crosswalk Script Development*
- *Special Considerations for RTDs*

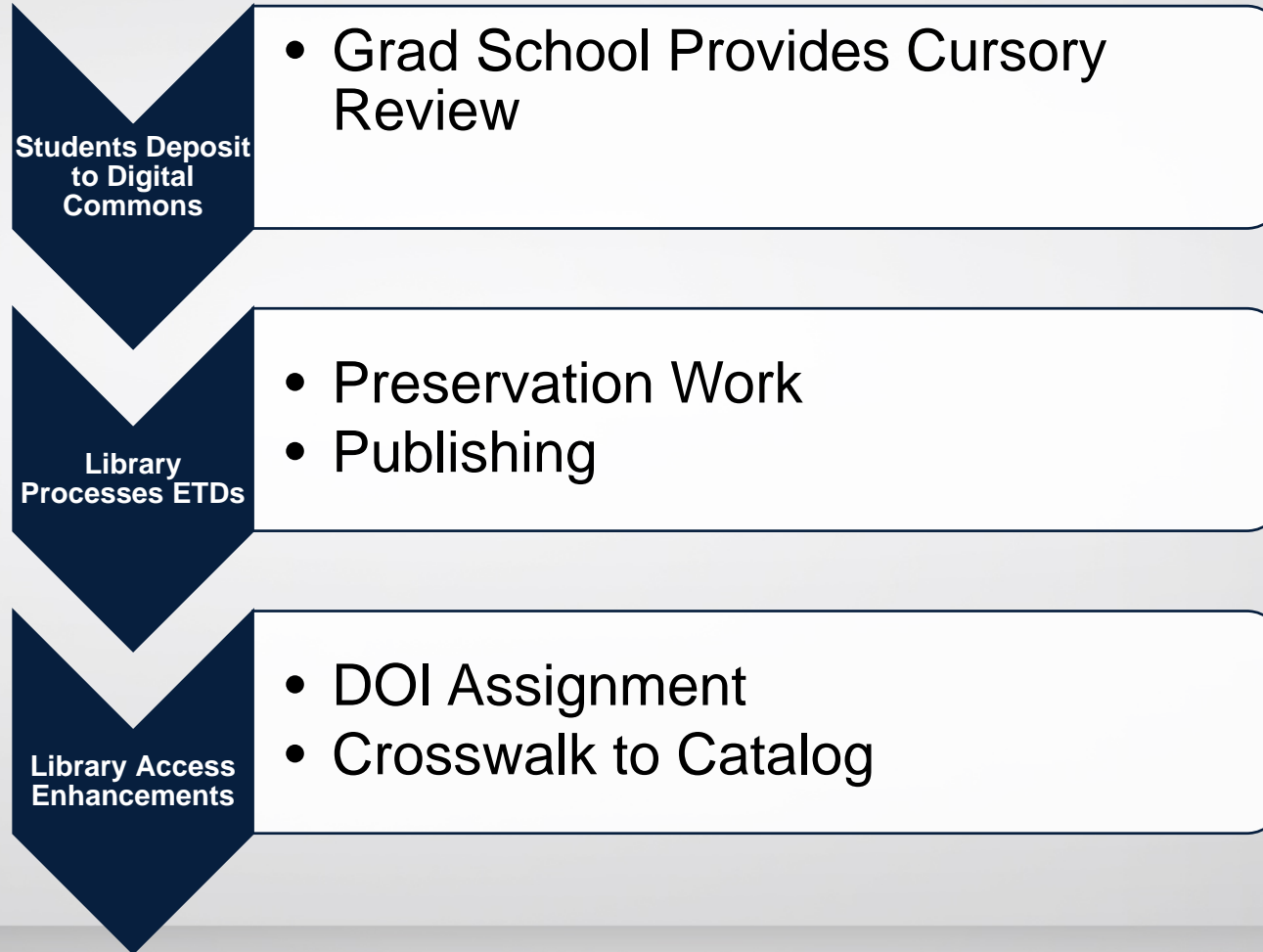


FIU ETDs

- *ETD program began in 2009 – Mandatory Deposit began in 2012*
- *85-100 ETDs processed each semester + 200 RTDs*
- *Crosswalk was developed in 2009*
- *New Script Created in 2020 – Why?*



ETD Workflow

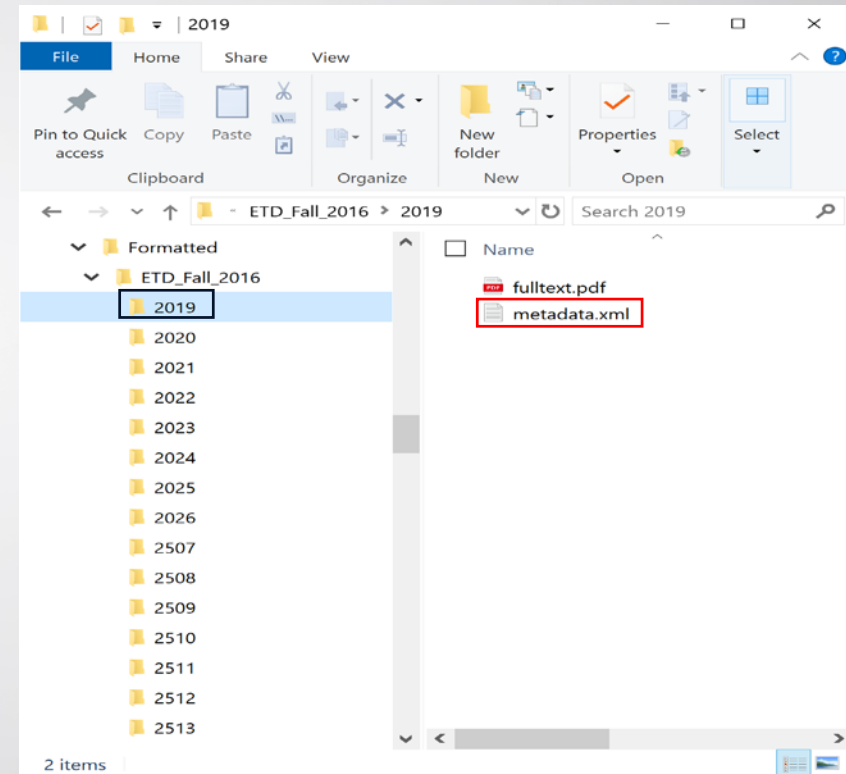


Why Did We Need to Change the Script?

- *2009 Script used the BePress Quarterly Content Delivery*
- *In 2017 we stopped receiving the BePress Quarterly Content Delivery*
- *OAI-PMH Next Best Thing*
- *Metadata structure differed between Quarterly Content XML and OAI-PMH XML*

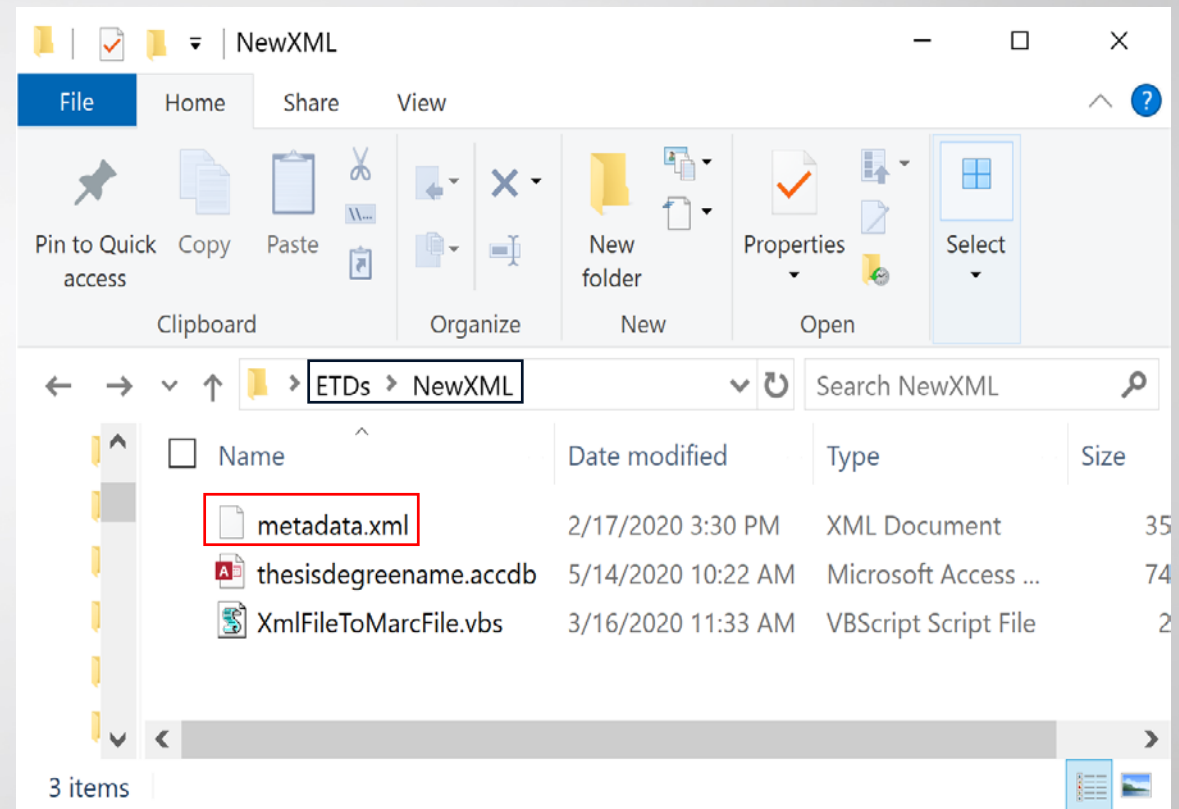
Structure of BePress Delivered XML

- Each metadata record was contained in one XML file
- Each XML file was contained in one folder



Structure of OAI-PMH XML

- All metadata records were contained in one XML file
- Everything is in one folder



Impact on Metadata Crosswalking

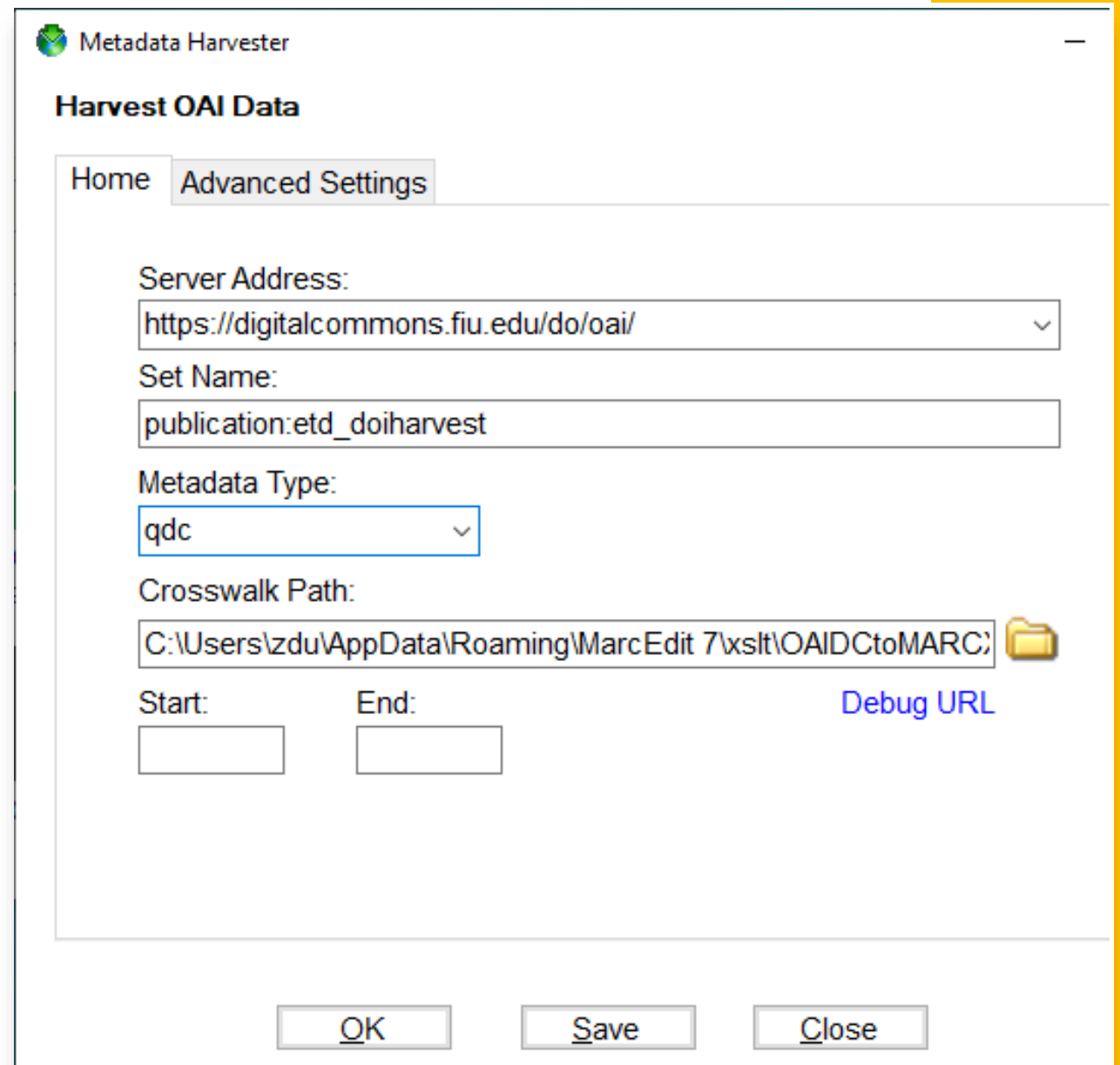
- We are at the transition from BePress Delivered XML to OAI-PMH XML
- Previous VBScript used for metadata crosswalking was not working on OAI-PMH XML
- We had to seek a new method for crosswalking

Options for New Metadata Crosswalking Tools

- MARCEdit
 - Ready APP for transformation
- VBScript
 - Revision needed for transformation

Crosswalking using MARCEdit

- Open Metadata Harvester
- Fill the Feed request
 - OAI-PMH
 - Set name
 - Metadata type
 - Crosswalk XSLT, etc.



The screenshot shows the 'Metadata Harvester' application window with the 'Harvest OAI Data' dialog box open. The 'Advanced Settings' tab is selected. The dialog contains the following fields and controls:

- Server Address:** A dropdown menu with the value 'https://digitalcommons.fiu.edu/do/oai/'.
- Set Name:** A text input field containing 'publication:etd_doiharvest'.
- Metadata Type:** A dropdown menu with the value 'qdc'.
- Crosswalk Path:** A text input field containing 'C:\Users\zdu\AppData\Roaming\MarcEdit 7\xslt\OAItoMARC;' followed by a folder icon.
- Start:** An empty text input field.
- End:** An empty text input field.
- Debug URL:** A blue text label.

At the bottom of the dialog, there are three buttons: 'OK', 'Save', and 'Close'.

MARCEdit

```
<title>Exploratory Assessment of Roadway Infrastructure Adaptation to  
the Impacts of Sea-level Rise</title>
```

```
<authors>
```

```
<author><lname>Batouli</lname><fname>Mostafa</fname></author></authors>
```

```
<keywords><keyword>Resilience</keyword>  
<keyword>Adaptation</keyword>  
<keyword>Sea-level Rise</keyword>  
<keyword>Exploratory Assessment</keyword>  
<keyword>Simulation</keyword></keywords>
```

```
<disciplines>
```

```
<discipline>Civil and Environmental Engineering</discipline></disciplines>
```

```
<coverpage-url>https://digitalcommons.fiu.edu/etd/3166</coverpage-url>
```

```
<fields><field name="publication_date" type="date">  
<value>2016-11-10T00:00:00-08:00</value></field>
```

```
<field name="contributor1" type="string">  
<value>Ali Mostafavi</value></field>
```

```
<field name="contributor_role1" type="string">  
<value>Co-Major Professor</value></field>
```

```
<field name="document_type2" type="string">  
<value>Dissertation</value></field>
```

```
<field name="doi" type="string">  
<value>10.25148/etd.FIDC001815</value></field>
```

```
<field name="identifier" type="string">  
<value>FIDC001815</value></field>
```

```
<field name="thesis_degree_discipline" type="string">  
<value>Civil Engineering</value></field>
```

```
<field name="thesis_degree_name" type="string">  
<value>Doctor of Philosophy (PhD)</value></field>  
</fields>
```

Title

Author

```
=LDR 00865 am a 002533u  
=042 \\$adc  
=100 10$aBatouli, Mostafa$eauthor  
=245 00$aExploratory Assessment of Roadway Infrastructure  
Adaptation to the Impacts of Sea-level Rise  
=500 \\$ahttps://digitalcommons.fiu.edu/etd/3166  
=500 \\$a10.25148/etd.FIDC001815  
=540 \\$ahttp://rightsstatements.org/vocab/InC/1.0/  
=690 \\$aResilience  
=690 \\$aAdaptation  
=690 \\$aSea-level Rise  
=690 \\$aExploratory Assessment  
=690 \\$aSimulation  
=690 \\$aCivil and Environmental Engineering  
=690 \\$aInfrastructure  
=100 10$aAli Mostafavi$econtributor  
=100 10$aArindam Gan Chowdhury$econtributor  
=100 10$aSamuel Labi$econtributor  
=100 10$aIrtishad Ahmad$econtributor  
=100 10$aBerrin Tansel$econtributor  
=856 41$uFIDC001815$zConnect to this object online.
```

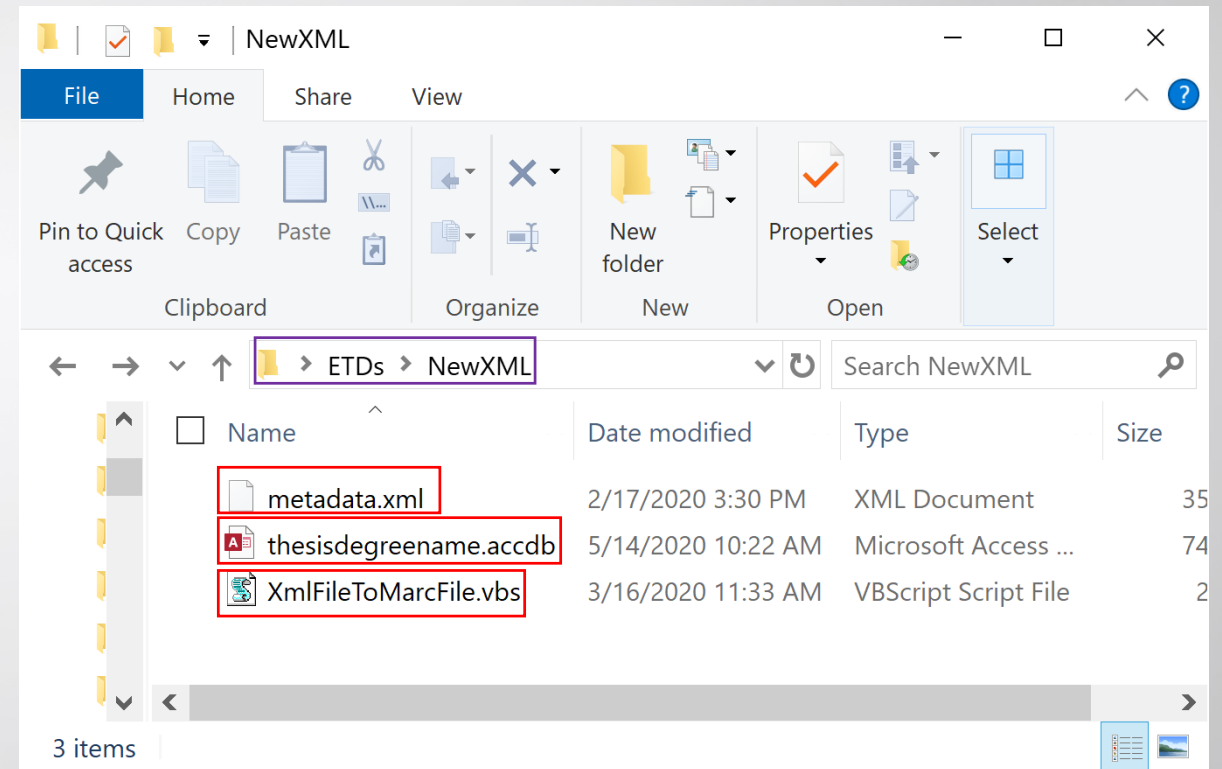
New VBScript – data validation

- Validate degree name, discipline name and major name
- Validate metadata fields (title, DOI, date, name, no FI identifier, keyword, etc. and provide errors list such as invalid characters, absent FI numbers, etc.

- DOI# -> 024 field
 - Create a DOI link as an 856 field
 - Replace the current Digital Commons link with the DOI link
- FI# -> 035 field (match point)
- Publication date -> 260 field
- Keywords -> 653 field
- Thesis degree discipline + thesis degree name -> 500 field (degree and major information)
- Add 050 by checking **these degree name** database
- Add 300
- Add Tickler: (FMFIU)MLC thesis-E

New VBScript – Directory (1)

- Prepare three essential files – XML file, thesis and degree name database, VBScript
- Create one directory for above files



New VBScript – Directory (2)

- Modify the VBscript to reflect the directory path of access database and XML file
 - strFilePath = "C:\Users\ZD\Desktop\ETDs\NewXML"
 - strAccessFileName = "thesisdegreename.accdb"
 - xmlFName="metadata.xml"

New VBScript – Execute Command

- Open command line interface
 - `%windir%\SysWOW64\cmd.exe`
- Run the VBScript
 - `cscript T:\ETDs\2020\ETD_Fall_2020\XmlFileToMarcFile.vbs`

New VBScript - Crosswalk

```
<title>Exploratory Assessment of Roadway Infrastructure Adaptation to the Impacts of Sea-level Rise</title>
```

```
<authors>  
<author><lname>Batouli</lname><fname>Mostafa</fname></author></authors>
```

```
<keywords><keyword>Resilience</keyword>  
<keyword>Adaptation</keyword>  
<keyword>Sea-level Rise</keyword>  
<keyword>Exploratory Assessment</keyword>  
<keyword>Simulation</keyword></keywords>
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```

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<fields><field name="publication_date" type="date">  
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<value>Civil Engineering</value></field>
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<value>Doctor of Philosophy (PhD)</value></field>
```

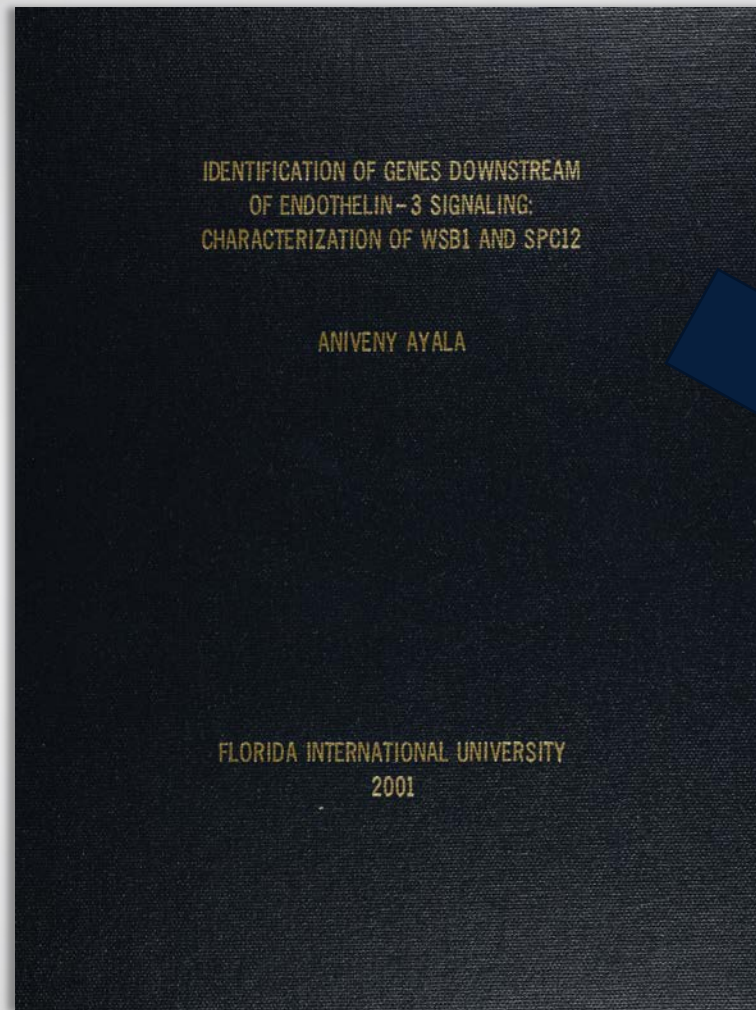
```
</fields>
```

Author

Title

```
LDR 01019nam^22000277a^44500  
001 037218484  
005 20200219095116.0  
006 m^^^^^^^^^d^^^^^^^^^  
007 cr^nu^^^^uuuuu  
008 200102s^^^^^^^^^xx^^^^^^sb^^^^000|0^eng  
^d  
024 7 a 10.25148/etd.FIDC001815  
2 doi  
035 a (ETD)FIDC001815  
040 a FXG  
c FXG  
049 a FXGG  
050 4 a TAO  
100 1 a Batouli, Mostafa.  
245 10 a Exploratory Assessment of Roadway Infrastructure  
Adaptation to the Impacts of Sea-level Rise  
[electronic resource] /  
b Mostafa Batouli.  
c 2016.  
260 c 1 online resource.  
300 a "Doctor of Philosophy (PhD) in Civil Engineering."  
500 a Thesis (Ph.D.)--Florida International University, 2016.  
653 0 a Florida International University  
a Dept. of Civil and Environmental Engineering  
a Dissertations and theses  
a Resilience  
653 0 a Adaptation  
653 0 a Sea-level Rise  
653 0 a Exploratory Assessment  
653 0 a Simulation  
655 4 a Academic theses  
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856 42 3 Click here to access the Abstract  
u https://dx.doi.org/10.25148/etd.FIDC001815  
5 FMFIU
```


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Identification of genes downstream of endothelin-3 signaling: characterization of WSB1 and SPC12

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Document Type
Thesis

Degree
Master of Science (MS)

Department
Biology

Advisor's Name
Keith Condon

Advisor's Committee Title
Committee Chair

Second Advisor's Name
Keith Condon

Third Advisor's Name
Ophelia I. Weeks

Date of Defense
11-27-2001

Abstract
Signaling of endothelin-3 (Edn3) through its receptor, endothelin receptor B (Ednrb), has been shown to be indispensable for the development of certain neural crest derivatives. Since no research has been directed to investigate what the downstream targets of this signaling pathway are, the purpose of this study was to identify and characterize genes that are transcriptionally regulated by Edn3 signaling.

Data from Differential Display RT-PCR of Edn-3 induced cDNA vs. non-induced cDNA obtained from primary neural crest cultures was analyzed. Thirty bands that were differentially expressed were sequenced and submitted for a homology search (BLAST). Among the genes identified were WSB 1 (a member of the SOCS family of negative regulators) and SPC 12 (the smallest subunit, 12kDa, of mammalian signal peptidase).

Using whole-mount in-situ hybridization, the expression patterns of Ednrb, WSB 1 and SPC 12 were characterized. WSB 1 and SPC 12 expression patterns were found to overlap with that of Ednrb, suggesting that Edn3 might regulate the transcription of these genes in specific neural crest derived lineages.

Identifier
FI14032380

Recommended Citation
Ayala, Aniveny. "Identification of genes downstream of endothelin-3 signaling: characterization of WSB1 and SPC12" (2001). *FIU Electronic Theses and Dissertations*. Paper 1349.
<http://digitalcommons.fiu.edu/etd/1349>

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Rebecca Bakker

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Florida International University

At this time, I decline to have my dissertation made available online.

Please DO make it available. Adding another point of light to push back the curtain of ignorance, is what I always say. Thanks

The logo for Florida International University (FIU), featuring the letters "FIU" in a bold, white, serif font on a dark blue background.

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An operator's manual for the reservation and registration monitors of the Moby Data hospitality system for Florida International University / by Mark William Nemptow.

Language: English

Authors: [Nemptow, Mark William](#)

Publication Information: 1976.

Publication Date: 1976

Physical Description: 146, 79 leaves : ill. ; 29 cm.

Publication Type: Book

Document Type: Non-fiction

Subject Terms: [Hotel management -- Data processing](#)
[Electronic data processing -- Handbooks, manuals, etc](#)

Notes: Typescript.
Thesis (M. S.)--Florida International University.

OCLC: 03376956

Online Access: [Also available online. Click here!](#)

Accession Number: fiu.024717415

Database: FIU Library Catalog

Location	Call No.	Status
FIU Green Library Special Coll General - 4th Fl.	TX911.3.E9 N44	View Catalog Record

An operator's manual for the reservation and registration monitors of the Moby Data Hospitality System

[Mark William Nemptow, Florida International University](#)

Document Type

Thesis

Major/Program

Hospitality Management

Date of Defense

6-1976

Abstract

The hospitality industry has been one of the last major business segments in the United States to utilize the computer and its capabilities. Everyone associated with the industry and data processing has contributed to this delay: manufacturers have been very slow to identify and recognize the potential that exists in the hotel industry; data processors have often unwisely attempted to apply the successful solutions of other industries' problems to the hospitality industry; and lodging management has demonstrated little interest and contributed inadequate amounts of physical and economical resources.

The initial attempt by the hotel industry to utilize the computer now seems extremely primitive. The only systems being used were large, complex computers with software designed for other industries with minor changes. The major problem was one of cost justification. With the systems that were in existence a hotel had to have at least 500 rooms with an average rate of \$ 50 per room for it to be economically feasible.

Identifier

F115092500

Comments

No committee information available.

Recommended Citation

Nemptow, Mark William, "An operator's manual for the reservation and registration monitors of the Moby Data Hospitality System" (1976). *FIU Electronic Theses and Dissertations*. 2067.
<https://digitalcommons.fiu.edu/etd/2067>

DOI

[10.25148/etd.F115092500](https://doi.org/10.25148/etd.F115092500)

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- Zhonghua Du zdu@fiu.edu
- Rebecca Bakker rbakker@fiu.edu

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