



# PubMan Days 2011

## System Integration Example 2: MPI for Chemical Ecology, Jena

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IT Service Group



- 1. Migration to PubMan**
- 2. Integration in Local Systems**
- 3. Publication Workflow**



## 1. Migration to PubMan

### The MPI for Chemical Ecology, Jena, Germany

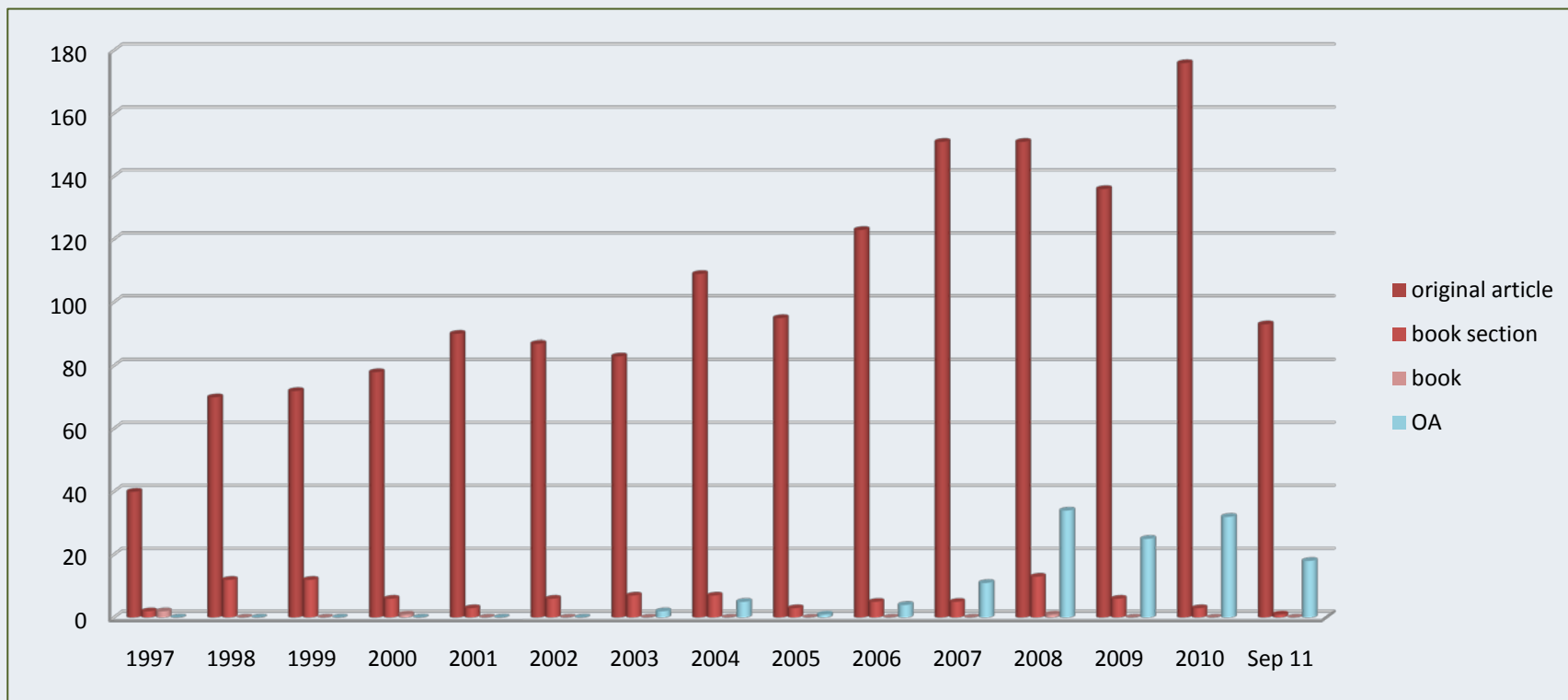


Founded:	in March 1996
Research:	interactions between plants, animals and their environment mediated by chemical signals
Scientists:	organic chemists, biochemists, ecologists, entomologists and similar fields of knowledge
Members:	5 departments, more than 180 scientists, including about 90 PhD candidates and 20 undergraduates from 39 different countries



# 1. Migration to PubMan

## MPI-CE Publications





# 1. Migration to PubMan

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## MPI-CE Migration Process

Background:	EndNote database, with use of customized fields
Volume:	1,850 publications 3,200 files
Migration Date:	May 2010



## 2. Integration in Local Systems

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### Use of PubMan Data

- Websites: institute, departments, project groups  
IMPRS  
scientists' homepages
- Reports: status report for advisory board  
MPG yearbook
- Further: consistency checks  
IMPRS certificates



### Example 1: Publication List of Institute and Departments

**MPI CE Publications**

Department      Year      Citation like

Molecular Ecology                 

**in press**

- 1 **Glauer, G., Marti, G., Villard, N., Doyen, G., Wolfender, J.-L., Turlings, T., Erb, M.** (in press). Induction and detoxification of maize 1,4-benzoxazin-3-ones by insect herbivores. *THE PLANT JOURNAL*. doi:10.1111/j.1365-313X.2011.04740.x. [ITB331] PubMan
- 2 **Kallenbach, M., Gilardoni, P. A., Allmann, S., Baldwin, I. T., Bonaventure, G.** (in press). C12 derivatives of the HPL pathway are produced by product-recycling through LOX2 1 in *Nicotiana attenuata* leaves. *NEW PHYTOLOGIST*. [ITB321] PubMan
- 3 **Meldau, S., Baldwin, I. T., Wu, J.** (in press). For security and stability: SGT1 in plant defense and development. *PLANT SIGNALING AND BEHAVIOR*. [ITB332] PubMan



## 2. Integration in local Systems

### Example 2: Publication List on Scientist's Homepage



Mario Kallenbach


Room: B2.050  
Phone: +49 (0)3641 57 1117  
Fax: +49 (0)3641 57 1102  
[email](#)

[Department of Molecular Ecology](#)  
Max Planck Institute for Chemical Ecology  
Hans-Knöll-Straße 8  
D-07745 Jena

[Research](#) [Theses](#) [CV](#) [Publications](#) [Presentations](#)

(internal [Edit](#)) [to staff list](#)

#### in press

- 1 [Kallenbach, M., Gilardoni, P. A., Allmann, S., Baldwin, I. T., Bonaventure, G.](#) (in press). C12 derivatives of the HPL pathway are produced by product-recycling through LOX2 1 in *Nicotiana attenuata* leaves. NEW PHYTOLOGIST. [ITB321] 

#### 2010

- 1 [Kallenbach, M., Alagna, F., Baldwin, I. T., Bonaventure, G.](#) (2010). *Nicotiana attenuata* SIPK, WIPK, NPR1 and fatty acid-amino acid conjugates participate in the induction of JA biosynthesis by affecting





## 2. Integration in Local Systems

### Example 3: MPI-CE Extensions

Kallenbach, M., Alagna, F., Baldwin, I. T., & Bonaventure, G. (2010). *Nicotiana attenuata* SIPK, WIPK, NPR1 and fatty acid-amino acid conjugates participate in the induction of JA biosynthesis by affecting early enzymatic steps in the pathway. *Plant Physiology*, 152, 96-106. doi:10.1104/pp.109.149013.

**Kallenbach, M.**, Alagna, F., Baldwin, I. T., Bonaventure, G. (2010). *Nicotiana attenuata* SIPK, WIPK, NPR1 and fatty acid-amino acid conjugates participate in the induction of JA biosynthesis by affecting early enzymatic steps in the pathway. PLANT PHYSIOLOGY, 152, 96-106. doi:10.1104/pp.109.149013. IITB092 **Open Access** PubMan

- mark all **Open Access** publications
- mark all species names
- add institutional signature
- mark name of author on scientist's homepage

## 2. Integration in Local Systems

### Usage: Species Names (Wild Tobacco *N. attenuata*)



- managed in local database
- mark lists on websites, reports  
theses  
talks
- use for online forms

Famili	Gattung Art	(Kurzform)	dt. Name (Gattung Art)
<input type="checkbox"/>	Nicotiana allopolyploids	N. allopolyploids	
<input type="checkbox"/>	Nicotiana attenuata	N. attenuata	Wilder Tabak
<input type="checkbox"/>	Nicotiana benthamiana	N. benthamiana	

Wünsche, Hendrik (2011). Involvement of two nitric oxide-associated genes, NOA1 and GSNOR, in *Nicotiana attenuata*'s resistance to the specialist insect herbivore *Manduca sexta*. Friedrich-Schiller-Universität Jena, Faculty for Biology and Pharmacy, PhD Thesis

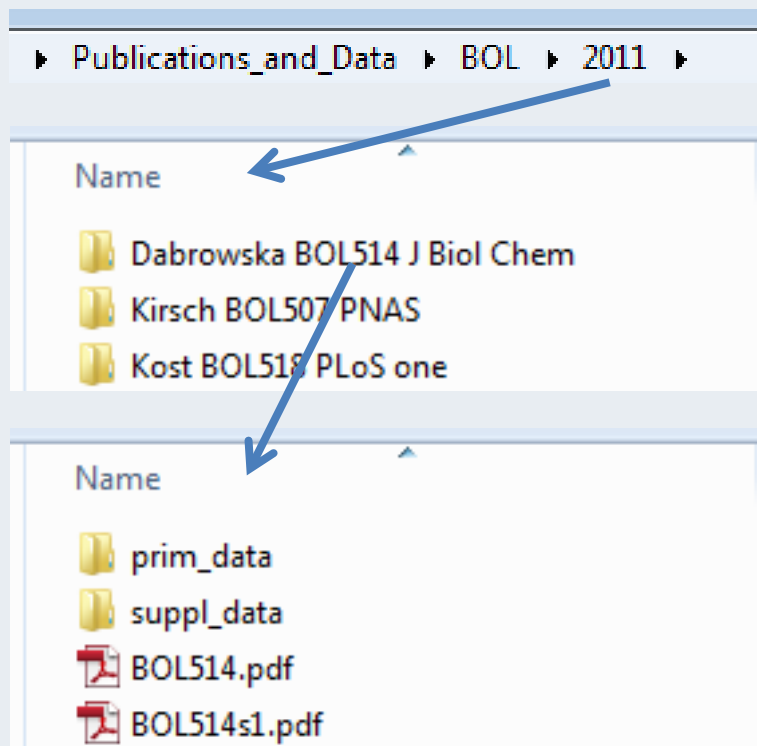
Wu J. MPK4 in *Nicotiana attenuata* a multifaceted MAPK involved in biotic and abiotic resistance. 2ND INTERNATIONAL SYMPOSIUM ON INTEGRATIVE PLANT BIOLOGY, CHINESE SOCIETY FOR CELL BIOLOGY, BOTANICAL SOCIETY OF CHINA, GENETICS SOCIETY OF CHINA AND CHINESE SOCIETY FOR PLANT PHYSIOLOGY, Lanzhou, CN, Aug 2011



## 2. Integration in Local Systems

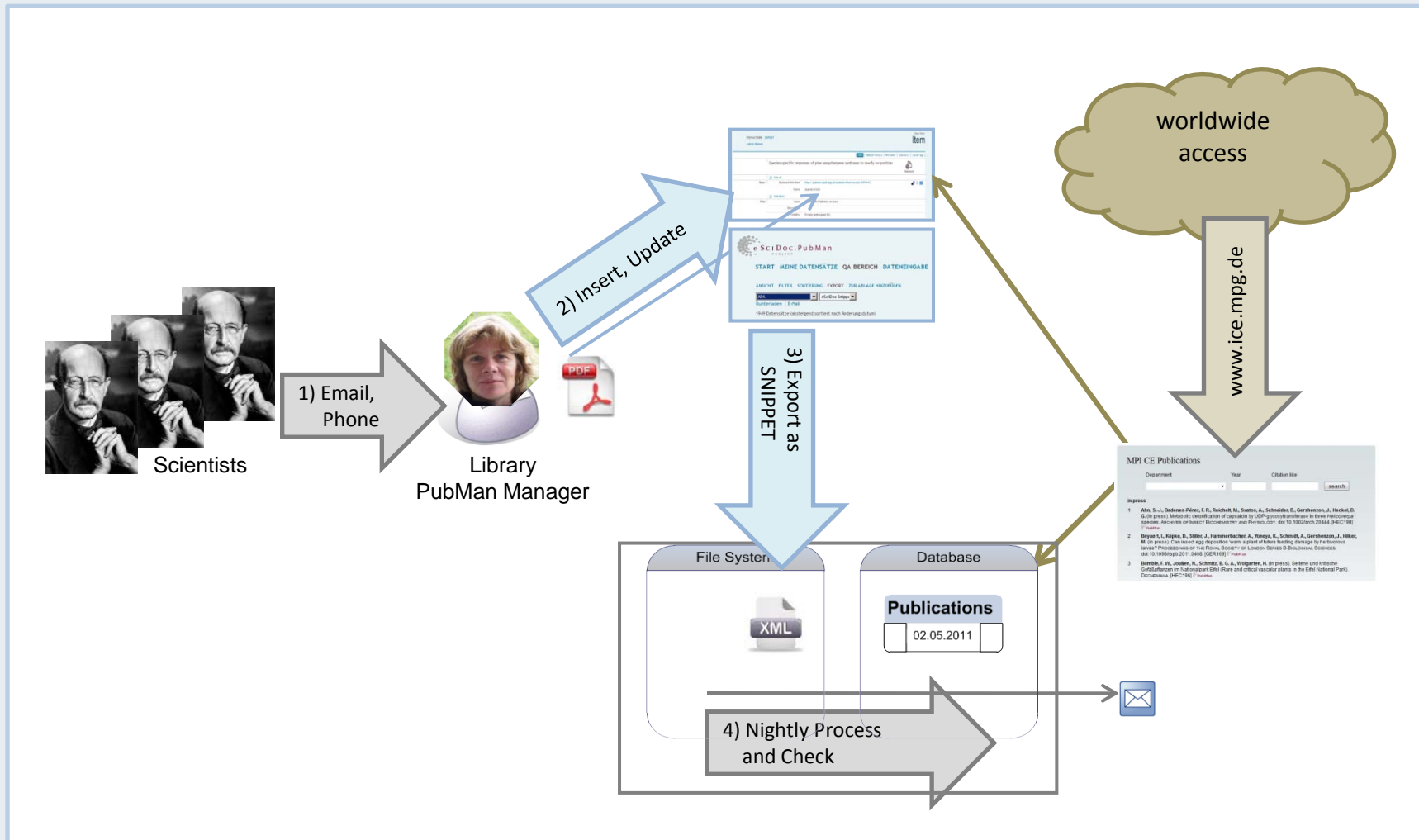
### Usage: Institutional Signature

use as local identifier to store all data around a publication





### 3. Publication Workflow





### 3. Publication Workflow

## 2 Examples for Automatic E-Mails

```
Anzahl ICE Publikationen: 2093

2011-08-30 09:33 - max. Datum APA_output.xml
2011-08-29 09:52 - max. Datum Datenbank (bisher)

JOB: Daten neu geladen..
http://www.ice.mpg.de/ext/publ\_ice.html

letzte Änderung(en) vom 30.08.2011:
Publikationen:
HEC198 (new)
ITB331 (upd)
ITB334 (new)

Dateien:
ITB334.pdf

Konsistenzcheck:
1) Zuordnung prüfen (PM_Authors):
   i.O.

2) LABEL prüfen:
   i.O.

3) PDF prüfen: (last updated: 2011-05-24 14:39)
   -no-

Gruß vom PubMan
```

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Anzahl ICE Publikationen: 2094

2011-08-31 12:00 - max. Datum APA_output.xml
2011-08-31 12:00 - max. Datum Datenbank (bisher)

JOB: keine neuen Daten, kein neues Laden..

Konsistenzcheck:
1) Zuordnung prüfen (PM_Authors):
   i.O.

2) LABEL prüfen:
   i.O.

3) PDF prüfen: (last updated: 2011-05-24 14:39)
   -no-

Gruß vom PubMan
```



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**You are welcome to ask question?**

**Contact me!**  
**[dmewes@ice.mpg.de](mailto:dmewes@ice.mpg.de)**