

The 9th Annual



User Group Meeting

Internet Access

- Meeting Room Password:
energy
- Lobby Password:
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2013 User Group Meeting

**Inera Developments
and eXtyles Enhancements**

From XUG 2012 to XUG 2013

- Prioritized list of development projects
 - Customer feedback from breakout session results
 - Ideas generated by Inera staff
- Inera team considers how enhancements will best address the needs of a varied customer base (journals, books, standards, government)
- Many incremental improvements in addition to the ones highlighted here
- Many features in this presentation are options available by request, so make notes on your evaluation form if you'd like us to follow up

What's New?

- Office 2013 support (eXtyles version 6.0.0)
- New modules and features
- Improvements to existing features
- New product
- New team members

New Features and Modules

- NCBI Linking module
- Table Auto-Style
- Reference abstract insertion
- ORCID support

NCBI Linking

- XUG feature request
- Identifies accession numbers and IDs and links them to their NCBI database records
- Inserts Word comments if an item has been changed, replaced, or removed
- Exports appropriate markup to XML
- “Two-pass” process:
 - First pass: looks for strong cases like “PDB” before a valid ID
 - Second pass: if any valid IDs are found, runs again with a looser pattern to check for malformed IDs

NCBI Linking Example

- ... from the Gulf of California (unpublished GenBank record **EU090136**), and in a culture-independent analysis of the microbial burden...
- The character style **db_ncbi_genbank** and the link <http://www.ncbi.nlm.nih.gov/nucore/156744481> are automatically applied to the text “EU090136”
- Clicking on this link brings up the NCBI GenBank record for this sequence

NCBI Linking Databases

- NCBI databases
 - CCDS
 - dbGaP
 - dbSNP
 - Entrez Gene
 - GenBank
 - GenPept (Entrez Protein)
 - Gene Expression Omnibus
 - OMIM
 - PDB
 - RefSeq
 - SRA
 - SwissProt
 - UniGene
- EBI databases
 - ArrayExpress Array
 - ArrayExpress Experiment
 - ArrayExpress GEO

Table Auto-Styling

- Analyzes Word table topology and automatically applies paragraph styles during Cleanup
- Will apply table title, head, body, and legend/footnote styles to text within the Word table grid (but will *not* apply styles to titles or legends/footnotes that fall above or below a table)
- Accurately styles 90% of tables
- Where it fails:
 - No table head row
 - Egregiously malformed tables

Reference Abstract Insertion

- PubMed Reference Correction module can be configured to insert abstracts after references
- Can be set to toggle between hidden and visible text in Word
- Can be supported as annotations to references when exported to NLM/JATS XML

<jm>4. G. T. Banks, E. M. C. Fisher, Cytoplasmic dynein could be key to understanding neurodegeneration. *Genome Biol.* 9, 214 (2008). [Medline](#)</jm>

A new mouse mutation, *Sprawling*, highlights an essential role for the dynein heavy chain in sensory neuron function, but it lacks the ability of other known heavy-chain mutations to ameliorate neurodegeneration due to defective superoxide dismutase.

<jm>5. A. Desai, T. J. Mitchison, Microtubule polymerization dynamics. *Annu. Rev. Cell Dev. Biol.* 13, 83–117 (1997). [Medline](#)</jm>

The polymerization dynamics of microtubules are central to their biological functions. Polymerization dynamics allow microtubules to adopt spatial arrangements that can change rapidly in response to cellular needs and, in some cases, to perform mechanical work. Microtubules utilize the energy of GTP hydrolysis to fuel a unique polymerization mechanism termed dynamic instability. In this review, we first describe progress toward understanding the mechanism of dynamic instability of pure tubulin and then discuss the function and regulation of microtubule dynamic instability in living cells.

ORCID Support

- If ORCID IDs are included in Word in this form:

John Smith (<http://orcid.org/0000-0001-6858-8806>), Jane Smith
(<http://orcid.org/0000-0002-2808-802X>)

then eXtyles will export them as:

```
<ext-link ext-link-type="orcid" xlink:href="http://orcid.org/0000-0001-6858-8806"/>http://orcid.org/0000-0001-6858-8806</ext-link>
```

inside the <contrib> element when using the NLM DTD (any version), or as:

```
<contrib-id contrib-id-type="orcid">http://orcid.org/0000-0001-6858-8806</contrib-id>
```

when using JATS, which added <contrib-id>

- Assumes a manual copy/paste of the ORCID from the online submission system into Word

Feature Improvements

- Activation
- Cleanup/Post-Processing Cleanup
- Auto-Redact
- Compare to Baseline
- Advanced Processing
 - Reference Processing
 - Citation Matching
 - PubMed/CrossRef Linking and Correction
- XML Export

Activation Improvements

Improved handling of nested tables

- If Activation detects a nested table, you are given a choice to stop or continue
- If you continue, nested tables will be converted to tabbed text, while the topology of the primary table is preserved
- Warning indicates which tables have been affected

Activation/Cleanup Improvements

Improved handling of monospace-font text

- At Activation, detects paragraphs set in a monospace font (such as Courier) and protects them from eXtyle font overrides
- At Cleanup, provides new settings for turning off white-space removal from text set in a specific font
- Designed to allow Cleanup of a document while protecting text such as computer code fragments in which extra white space should be preserved
- Can also be used for other spacing-sensitive text, such as poetry

Cleanup Improvements

- Enabled customization of the label text in the Cleanup and Post-Processing Cleanup dialogs, allowing for localization to other languages
- Fixed a bug in the Remove Unused Styles feature of Post-Processing Cleanup that could incorrectly cause some paragraphs to become Normal style

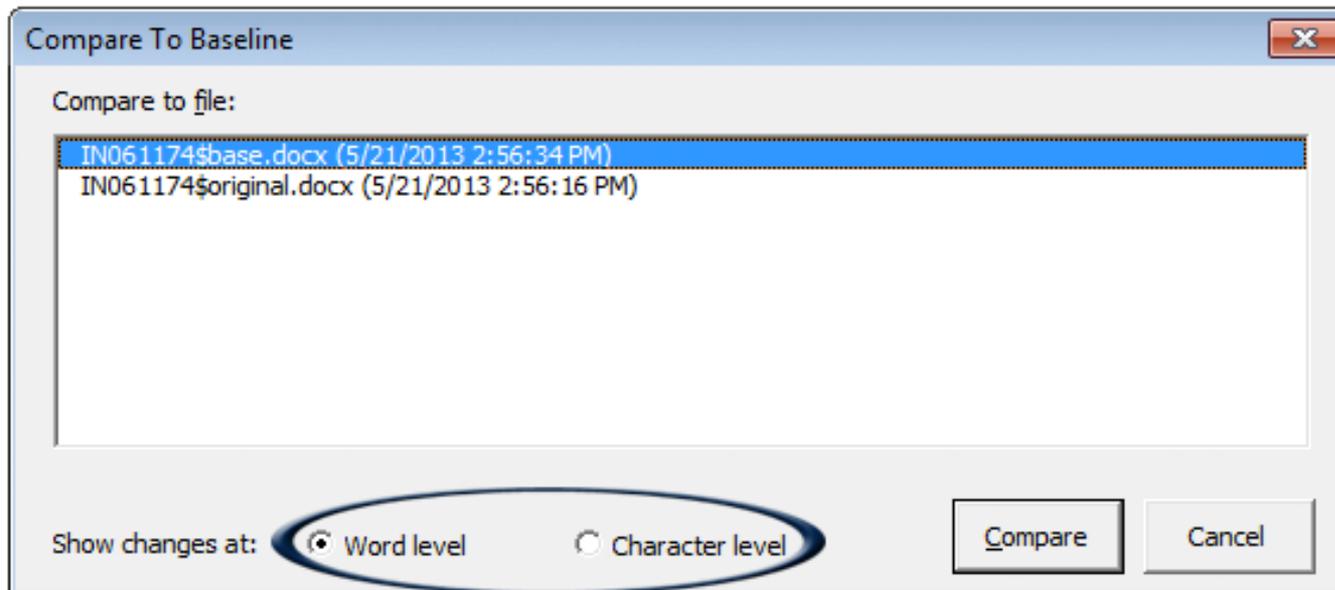
Auto-Redact Improvements

Added support for protection of text within single quotes

- Text within double quotes has always been "protected" during Auto-Redact, so that rules will not make changes to direct quotations
- Single quotation marks present more of a challenge, since they can be difficult to distinguish from apostrophes
- New Auto-Redact rule sets are now available that protect text within single quotes in the vast majority of cases

Compare to Baseline Improvements

- Compare to Baseline dialog now has a radio button selection to allow comparison by word (the default behavior) or by character
- Available only when running eXtyles in Word 2007 and later



Advanced Processing Improvements

Changed Advanced Processing behavior so that when character styles are applied, they are always set in the font size of the underlying paragraph

No more of this sort of thing:

However, 42 (35%) did not report searching other sources and 39 (32%) did not report any information regarding restriction or no restriction of study selection related to publication status (Table 2). In addition, 42 (35%) and 32 (26%) NMAs did not report the methods...

Yay!

Reference Processing Improvements

- Improved overall reference parsing performance by about 20%
- Added support in Duplicate Reference Checking to compare fully parsed non-journal references (e.g., books, book chapters, conference proceedings)

Reference Processing Improvements

- Added support for non-conformant DOI prefixes
 - eXtyles will identify DOIs with malformed prefixes such as "0.1016/," "10/1016/," or "10.1016"
 - CrossRef Linking will report the errors in these user-supplied DOIs and replace them with corrected DOIs
- Added support to parse references that include both "Epub ahead of print" and a DOI
- Added support to parse Epub dates in references that appear in the format "Epub 2004/09/03" (new ICMJE style guidelines)

Reference Processing Improvements

- Added special support for references to *Clin Orthop Relat Res*
 - References to articles published before 2008 will have a "volume" number parsed as an "issue" number, because this (highly cited) journal did not have volume numbers until 2008
 - Resolves a situation in which references to *CORR* ended up with identical volume and issue numbers after running PubMed Reference Correction
- Added support to parse references with the journal title *Spine (Phila Pa 1976)*

Reference Linking and Correction Improvements

- Implemented a new algorithm for PubMed fuzzy matching
 - Eliminates a number of false-positive matches
 - Improves the overall link rate
 - Places a heavier bias on the first author surname than on the first page number, so a typo in a page number is now less likely to cause a link to the wrong reference
- Added a feature enabling the Epub date for a reference to be inserted automatically

Reference Linking and Correction Improvements

- Added support to CrossRef Linking and Correction for retractions
- Provides a warning if a reference has a CrossMark record that indicates it has been "retracted," "withdrawn," or "removed"

<jm>Jang, H.-H., Ann, S.-H., Kim, M.-D. & Kim, C.-W. Use of hydrogen peroxide as an effective disinfectant to *Actinobacillus ureae*. *Process Biochem.* 43, 225–228 (2008). [CrossRef](#)</jm>

Comment [ND1]: CrossMark reports a retraction (or similarly important issue) with reference "Jang, Ann, Kim, Kim, 2008". The CrossMark label is "Removed". Additional information can be found at <http://dx.doi.org/10.1016/j.procbio.2007.11.014>. The update was issued on April 22, 2008.

Citation Matching Improvements

- Added support for "two-pass" Citation Matching when a book with multiple chapters is in a single Word file
- Designed to support Chicago-style books in which each chapter has its own list of footnotes numbered 1 to n, but the book has a single comprehensive bibliographic reference list

XML Export Improvements

Added Author Processing/Export support for multiple affiliations in a single paragraph

- Includes support for "Departments of" affiliations such as "Departments of Psychiatry¹ and Medicine², University of Pennsylvania"
- Also supports two or more affiliation paragraphs in Word, each with "sub-affiliations"
- In a nutshell: less manual labor for the editor

XML Export Improvements

- XHTML Tables
 - Added support to change table border markup from `<hr/>` to proper CSS attributes
 - Added support for table cell shading to be exported as RGB values in CSS attributes
- Endnotes/Footnotes
 - Added support for Word footnote and endnote numbering in XML export when custom numbers or symbols have been used instead of Word's auto-numbering

XML Export Enhancements

Supplementary Material

- Added generic support in the NLM/JATS export for supplementary material
- Material may be either cited video/audio or a paragraph of descriptive content that also lists one or more external files

New Product

edifixa

Edifix

- Reference processing web service for authors, editors, publishers, suppliers, and anyone else who needs to parse, edit, or link references
- Processes unstructured references pasted into a web form
- Can export to JATS XML, or to RIS format for use with reference managers such as EndNote
- Pricing:
 - Tiered subscription model
 - Blocks of references
- Currently in beta testing, set for Q1 2014 launch

New Team Members, New Initiatives

- Caitlin Gebhard, Documentation Guru
 - User documentation will be posted to the website, with a separate file for each eXtyles module
 - Will ensure easily accessed, up-to-date user guides for all eXtyles customers
 - Expanded technical support pages, video tutorials
- Melissa-Leigh Gore, Social Media Guru
 - @eXtyles, @Edifix
 - eXtyles LinkedIn Group
 - Edifix Facebook page

Thank You!

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