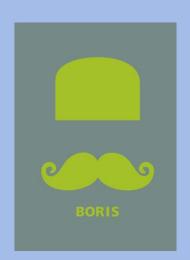
New implementations of and inquiries in features for BORIS



BORIS – Bern Open Repository and Information System

Dirk Verdicchio, Markus Müller Bern University Library



June 11, 2015 | Open Repositories 2015 | Indianapolis



Contents



- Intro
 - University of Bern, BORIS & how we get feedback
- New developments
 - Watermarks on downloaded documents
 - ② Eprints displays local time instead of UTC
 - 3 Change notification by email
 - 4 Using Sherpa/Romeo API to validate copyright
- Appendix
 - BORIS @ GitHub



Find our code at GitHub



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BORIS @ GitHub

1 Watermarks on downloaded documents



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Components changed

- ../archives/BORIS/cfg/cfg.d/watermark.pl
- ../archives/BORIS/cfg/lang/en/phrases/watermark.xml
- ../archives/BORIS/cfg/plugins/EPrints/Plugin/Convert/AddWatermark.pm

GitHub Refs

- https://github.com/UB-Bern/boris/commit/c4bac04ae0ba1b2a4f867e34294e2cd72b6b57e1
- https://github.com/UB-Bern/boris/commit/b9858d6708475f2b3b0c3abdd5f226f8405ebd31
- https://github.com/UB-Bern/boris/commit/5324683459151a6d507a1902729207cf47c7966d
- https://github.com/UB-Bern/boris/commit/126327f7964fb12d72a78f9c210ac1c2cbfa77a3
- https://github.com/UB-Bern/boris/commit/8a989c65801ee23dd89779bff67191f43c6dfd0a
- https://github.com/UB-Bern/boris/commit/8611e3bdb899cf38a3ab1d5ee1d52d899b8ed72c
- https://github.com/UB-Bern/boris/commit/5ee6ead445a9a6a23754cc6df7535ef2ba1f60f9



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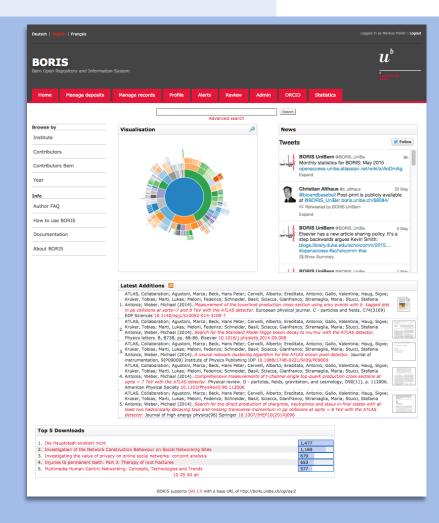




BORIS – Bern Open Repository and Information System



- 2012: Open Access Policy
- Nov. 2013: Institutional Repository
 - Hosted by the university's IT services
 - Software: EPrints
 - Customization made by Eprints Services
- Aims
 - Open Access respository
 - Platform for submitting publication data to research evaluation
 - Providing information about research projects (future)





BORIS Team





- Library
 - Nicole Bögli
 - Markus Müller
 - Regula Oppliger
 - Regula Schatzmann
 - Désirée Stalder
 - Andrea Stettler
 - Jan Stutzmann
 - Dirk Verdicchio
- IT services
 - Christian Friedli
 - Bettina Schmidt
- External partner
 - Peter West (Digital Repository Services)



Feedback channels



- Courses:
 - Regular course offer for submitter and for editors
 - «Inhouse» courses for institutes or research groups
- Ticketing system
- Mailing list for editors
- BORIS-Team is working close together with the Center for Development and Environment (CDE) and the Institute of Social and Preventive Medicine (ISPM)
- BORIS-Team is working close together with Vice-Rectorate Research and the Dean's Office of the Medical Faculty which are responsible for research evaluation
- Workflow allows contact to different user groups and stakeholders



Regular contact to stakeholders



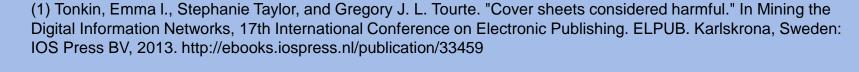
Insert/import metadata & full text	Control metadata	Publication rights, embargos, licenses	Inform researchers	Check completeness of publications	Evaluation
Submitter (Researchers/ Delegates)	Editors (Librarians, Delegates)	BORIS-Team/ Researchers	Q-Assistants	Researchers	Vice-Rectorate Research & Dean's office of the med. faculty



1 Watermarks on downloaded documents



- Why Watermarks?
 - Information about the origin of download
 - No hindrance for indexing (compared to cover sheets)¹
 - No waste of paper



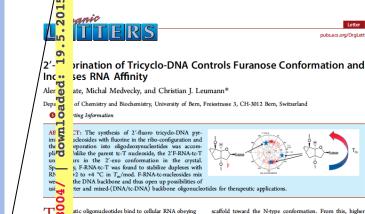


1 Watermarks on downloaded documents



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- Component generates a PDF with watermark added
- Original document is not altered
- Download item is cached;
 regenerate when date changes



atton-Crick niles, thereby controlling RNA
a variety of antiense mechanisms. From all
ide modifications that have been synthesized and
characterized over the last three decades, the class
attonally restricted oligonucleotide analogues
shows the highest increase in affinity to
ary RNA and, in general, also shows a high degree
y. The best characterized examples for which in
e available are the locked nucleic acid (LNA).³⁻⁷
nucleic acid (HNA).³⁻¹ and tricyclo(tc)FcDNA has recently been shown to exhibit to
report to the context of Duchenne
strophy in the mdx and diko mouse models in all
ues including heart, daphragm, and brain after
ivery.³⁰

delyonucleotide analogues such as the 2'-deoxybino nucleic acids (F-ANA), ¹⁶⁻²¹ the 2'-deoxyphino nucleic acids (F-ANA), ¹⁶⁻²¹ the 2'-deoxy-(F-RNA), ²⁷ the fluorebastic impact acids (Fand other modifications²⁵⁻²⁸ have recently terest due to the electrostatic impact that the stituent exerts on the furanose conformation, one cases to stronger RNA binding. In addition, one cases to stronger RNA binding. In addition, or acide the stronger RNA binding in addition, or acide to the stronger RNA binding in addition, 'A striking example, highlighting the differential fluorinated oligonucleotides to proteins, is the of an ILF 2/5 complex by a fluorinated antisense ide to RNA transcripts in cellulo and in vivo, Itemative splicing parterns that are not observed 12 'Co-alkylated oligonucleotides.²³ Purthermore, magnetic properties of ⁵⁸P ofter additional and billities for structure determination as well as for in

hed that a fluorine substituent in the 2'-position of s might exert additional steric and stereoelectronic , driving the furanose unit within the tricyclic sugar scaffold toward the N4ype conformation. From this, higher affinity to RNA can be expected. In addition, fluorine substitution may reinforce the favorable characteristics of tec DNA such as high biostability and broad tissue distribution and could thus improve the therapeutic potential of te-DNA. Here we present the synthesis and structural properties of the sugar component of F-t-cRNA and F-t-cANA as well as two novel tenucleoside analogues (F-RNA-tc-T and F-RNA-tc-^{Mac}C) and the DNA and RNA binding properties of correspondingly modified digodeosynucleotides.

Synthesis of Monomers

A reasonable plan for the synthesis of the fluorinated trisydo sugar involved the electrophilic fluorination of a suitably protected enol ether that should be easily accessible from the already known methyl glycoside 1 (Scheme 1). ³⁵ From this procedure, we expected to have access to both sugars containing fluorine in the 2'-eibo and arabino configuration. TMSOTF-induced elimination of the methosy group in 1 under

Scheme 1. Synthesis of the F-ANA- and F-RNA tc-Sugar Units 5

Received: March 5, 2015 Published: April 2, 2015

ACS Publications 0 2015 American Chemical Society

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DOI: 10.1021/acs.orglett.5b Org. Lett. 2015, 17, 1950-



2 Eprints displays local time instead of UTC



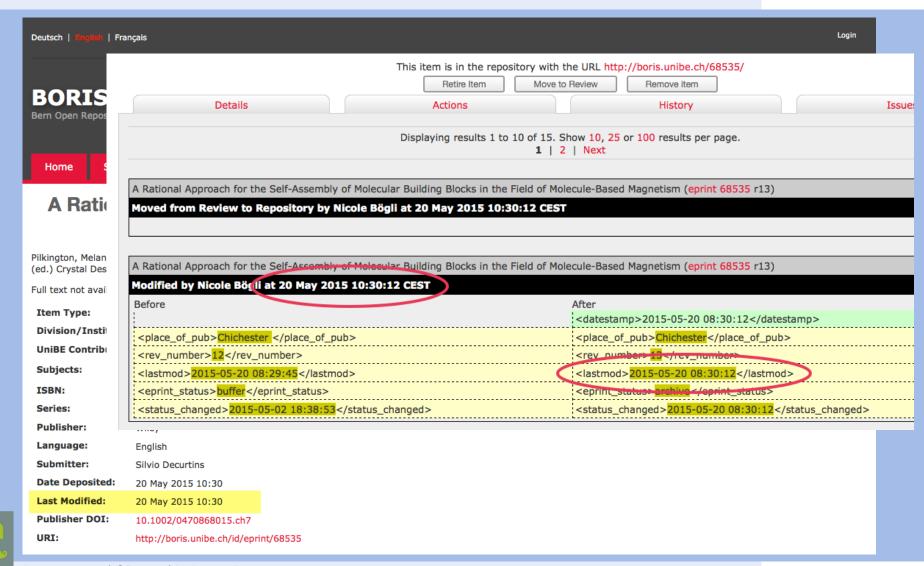
- Eprints time zone UTC vs local time zone CET
- Problems:
 - Makes it more difficult to trace and communicate changes
 - Users are irritated and think the repository does not work properly
- Solution:
 - Display local time





2 Eprints displays local time instead of UTC





2 Eprints displays local time instead of UTC



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Approach: https://github.com/eprints/eprints/issues/194



iploski commented on 21 Jan 2014

Currently the "Last modification" date and other dates are displayed as they are stored in the database in UTC time zone. It would be more sensible to render them in server's local time zone instead (our users complained about it). ../perl_lib/EPrints/Time.pm

Looking at documentation of EPrints::Time::render_date, it seems that it was intended so, but the implementation doesn't match spec. I suggest the following patch:

```
eprints-3.3.12-src/perl_lib/EPrints/Time.pm 2013-07-30 14:07:46.000000000 +0200
+++ eprints/perl_lib/EPrints/Time.pm
                                        2014-01-21 22:35:04.000000000 +0100
@@ -419,6 +419,9 @@
        return $session->html_phrase( "lib/utils:date_unspecified" );
    # Convert UTC to local time zone, trim result to original resolution:
    @l = @{[ local datetime(datetime utc(@l)) ]}[0..$#1];
    my( $year, $mon, $day, $hour, $min, $sec ) = @1;
    # 1999
```



3 Change notification by email



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Problem

- Only creators can make changes to items in the live archive
- Creators who are not depositors cannot make changes to their items
- Since the items in the live archive are basis for research evaluation we need to know about any modifications made in the live archive

Solution

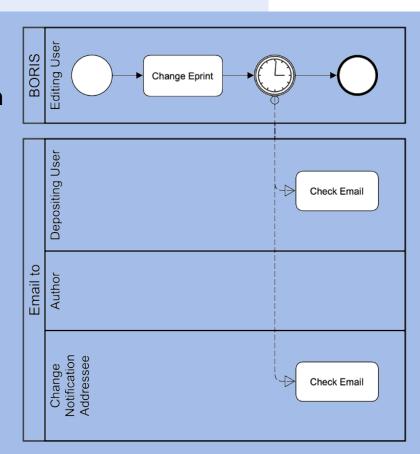
- Change ownership settings: Every contributor identified as member of the University is allowed to make changes
- Implement a notfiication system that informs the original depositor and the BORIS team about modifications in the live archive



3 Change notification by email



- Requirements (excerpt)
 - The system alerts the depositing user by Email on changes to an item while being in «Live Archive»
 - The system checks for changes at regular intervals
 - Authors being UniBE affiliates must be able to make changes to their contributions even when the item was submitted by some other person





3 Change notification by email



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30. Oktober 2014 11:06

\$./report_status_change BORIS --send_report --day

To further addressees:

To the depositing user:

This is an automatically generated change notification from BORIS

- Item: Test IR-265
- Item URL: http://boris-dev.unibe.ch/1292/
- Item type: Journal Article
- Date deposited: 30 Oct 2014 09:25
- Depositing user: Markus Müller
- DOI:
- PubMed ID:
- official URL
- related URL
- Date of modification: 30 Oct 2014 10:14
- · Modifications made by:
 - Markus Müller
- Track modifications: History

Modified fields:

Item Status, Last Status Change, Metadata checked, Language, Item ID, Depositing User, Revision

For questions regarding this message please contact the BORIS Team (boris@ub.unibe.ch).

BORIS

http://boris-dev.unibe.ch/ Contact us at boris@ub.unibe.ch

UB TICKET BORIS

An: UB_TICKET_BORIS, Müller Markus BORIS: change notification summary

This is an automatically generated change notification summary from BORIS

The following items were modified:

http://boris-dev.unibe.ch/1292/

- Item: Test IR-265
- Item URL: http://boris-dev.unibe.ch/1292/
- Item type: Journal Article
- Date deposited: 30 Oct 2014 09:25
- Depositing user: Markus Müller
- DOI:
- · PubMed ID:
- · official URL
- related URL
- Date of modification: 30 Oct 2014 09:30
- · Modifications made by:
 - Markus Müller
- Track modifications: History

Modified fields:

Item Status, Last Status Change, Metadata checked, Language, Item ID, Depositing User, Revision, Directory, Full Text Status, Item Type, Fulltext checked, Metadata Visibility

For questions regarding this message please contact the BORIS Team (boris@ub.unibe.ch).

BORIS

http://boris-dev.unibe.ch/

Contact us at boris@ub.unibe.ch



ullet Using Sherpa/Romeo API to validate copyright $oldsymbol{u}$



- Starting point
 - University's policy mandates upload of full texts
 - Obligation to check compliance with publisher policies
- Intention
 - Simplify and accelerate the process of reviewing the self archiving policies
 - Convincing researchers to upload their texts



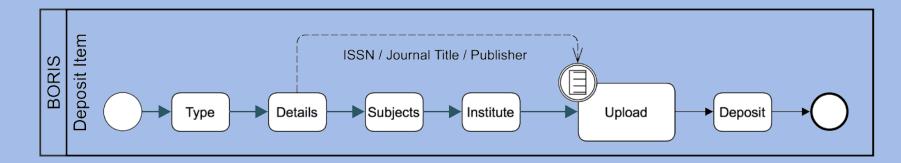


ullet Using Sherpa/Romeo API to validate copyright $oldsymbol{u}$



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- Approach
 - Lookup for publisher's policies through Sherpa/Romeo API when uploading full text by despositing user
 - Query by ISSN / Journal Title / Publisher

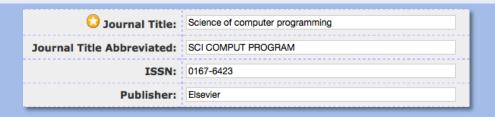


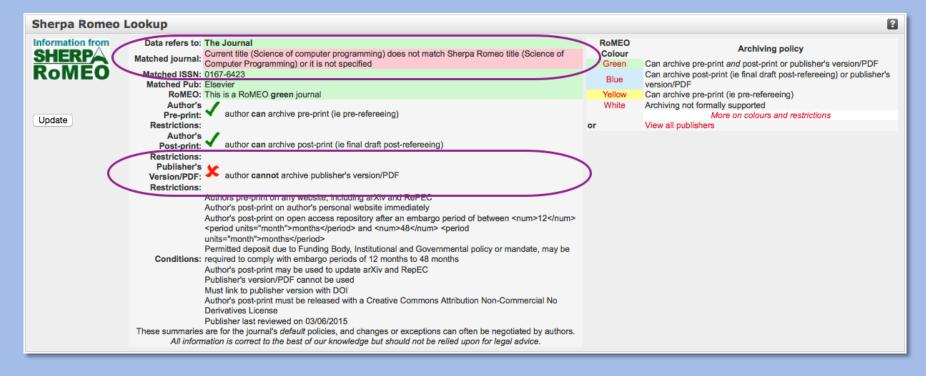
- Experience
 - Plugin works very well
 - Depositing users fell unable to cope with the setting
- Outcome
 - Plugin is a valuable aid to repository team for validation



ullet Using Sherpa/Romeo API to validate copyright $oldsymbol{u}$









Aknowledgements



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Peter J. West

Digital Repository Services Ltd pjw@repositoryservices.co.uk http://repositoryservices.co.uk/index.html



Thank you!



b Universität Bern



Appendix





BORIS @





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- Module used
 - PDF-API2-2.019
- Components changed
 - ../archives/BORIS/cfg/cfg.d/watermark.pl
 - ../archives/BORIS/cfg/lang/en/phrases/watermark.xml
 - ../archives/BORIS/cfg/plugins/EPrints/Plugin/Convert/AddWatermark.pm

GitHub Refs

- https://github.com/UB-Bern/boris/commit/c4bac04ae0ba1b2a4f867e34294e2cd72b6b57e1
- https://github.com/UB-Bern/boris/commit/b9858d6708475f2b3b0c3abdd5f226f8405ebd31
- https://github.com/UB-Bern/boris/commit/5324683459151a6d507a1902729207cf47c7966d
- https://github.com/UB-Bern/boris/commit/126327f7964fb12d72a78f9c210ac1c2cbfa77a3
- https://github.com/UB-Bern/boris/commit/8a989c65801ee23dd89779bff67191f43c6dfd0a
- https://github.com/UB-Bern/boris/commit/8611e3bdb899cf38a3ab1d5ee1d52d899b8ed72c
- https://github.com/UB-Bern/boris/commit/5ee6ead445a9a6a23754cc6df7535ef2ba1f60f9



BORIS @ GitHub





UNIVERSITÄT Bern

- Components changed
 - ../perl_lib/EPrints/Time.pm
- GitHub Refs
 - https://github.com/UB-Bern/boris/commit/39684759110f1528bf8029267e99400772fe29af



BORIS @ GitHub

3 Change notification by email



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- Components changed
 - ../archives/BORIS/bin/report_status_change
 - ../archives/BORIS/cfg/cfg.d/report_status_change.pl
 - ../archives/BORIS/cfg/lang/en/phrases/report_status_change.xml
 - ../archives/BORIS/cfg/cfg.d/does_user_own_eprint.pl

GitHub Refs

- https://github.com/UB-Bern/boris/commit/8ec472fa9ff14b88bda03717b2634ae502d4cd0f
- https://github.com/UB-Bern/boris/commit/53f4973b0b28d39907bb9d52a5a2239f5b8e7642
- https://github.com/UB-Bern/boris/commit/a7bc7c7a447f4846fa87769cb81cd3e969cc446f
- https://github.com/UB-Bern/boris/commit/db6b0827be1569585e7ab5f3be38f58fd52753a6
- https://github.com/UB-Bern/boris/commit/c342a726a30a749f33d59c9ef299e2ca45901cd4
- https://github.com/UB-Bern/boris/commit/b6f6631810f47bdfe2f12b357b6639a572560c4d
- https://github.com/UB-Bern/boris/commit/2a989bd3e5fbb533e01820c5d3a725c9d08bf62a
- https://github.com/UB-Bern/boris/commit/4b1c7272b2c5f090509586883ff7810483287583
- https://github.com/UB-Bern/boris/commit/51825fa58247d88c6ef442159e62e78606191f8c



BORIS @ GitHub



4 Using Sherpa/Romeo API to validate copyright

- Components changed
 - ../archives/BORIS/cfg/cfg.d/eprint_fields.pl
 - ../archives/BORIS/cfg/cfg.d/sherpa_romeo.pl
 - ../archives/BORIS/cfg/lang/en/phrases/sherpa.xml
 - ../archives/BORIS/cfg/plugins/EPrints/Plugin/InputForm/Component/Field/Modal/SherpaRomeo.pm
 - ../archives/BORIS/cfg/static/style/auto/sherpa.css
 - ../archives/BORIS/cfg/workflows/eprint/default.xml
 - ../archives/BORIS/cgi/sherpa_romeo_lookup
- GitHub Refs
 - https://github.com/UB-Bern/boris/commit/abd45595877eee3b58acd201ae90fb0aaef1b225

