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Dataset Multifaceted intervention for patients admitted to an emergency unit for suicide attempt: an exploratory study

Brovelli Sebastien; Dorogi Yves; Feiner Adam-Scott; Golay Philippe; Stiefel Friedrich; Bonsack Charles; Michaud Laurent;

This dataset is related to "Multifaceted intervention for patients admitted to an emergency unit for suicide attempt: an exploratory study" (Brovelli S., Dorogi Y., Feiner A.-S., Golay P., Stiefel F., Bonsack C. & Michaud L.)

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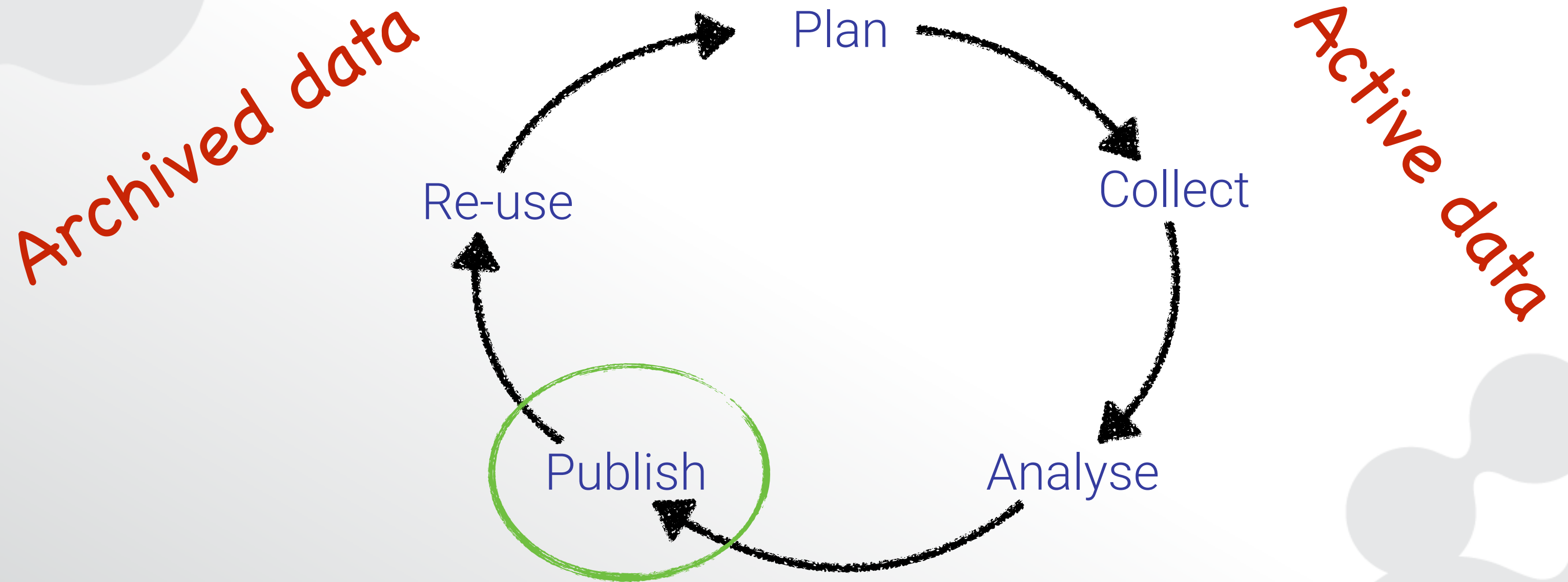
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Research data lifecycle



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RESEARCH ARTICLE

Development of a duplex real-time PCR for the detection of *Rickettsia* spp. and typhus group rickettsia in clinical samples

Stefano Giulieri¹, Katia Jaton², Alain Cometta³, Laurence T. Trellu⁴ & Gilbert Greub^{1,2}

¹Infectious Diseases Service, Centre Hospitalier Universitaire Vaudois, University of Lausanne, Lausanne, Switzerland; ²Institute of Microbiology, Centre Hospitalier Universitaire Vaudois, University of Lausanne, Lausanne, Switzerland; ³Service of Internal Medicine, Yverdon Hospital, Yverdon, Switzerland; and ⁴Service of Dermatology, University Hospital, Geneva, Switzerland

Correspondence: Gilbert Greub, Institute of Microbiology, Centre Hospitalier Universitaire Vaudois and University of Lausanne, Rue du Bugnon 46, CH-1011 Lausanne, Switzerland. Tel.: +41 21 314 49 79; fax: +41 21 314 40 60; e-mail: Gilbert.Greub@chuv.ch

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DOI: 10.1111/j.1574-695X.2011.00910.x

Editor: Achilles Emos

Keywords

rickettsia; polymerase chain reaction; spotted fever; typhus.

Abstract

Molecular diagnosis using real-time polymerase chain reaction (PCR) may allow earlier diagnosis of rickettsiosis. We developed a duplex real-time PCR that amplifies (1) DNA of any rickettsial species and (2) DNA of both typhus group rickettsia, that is, *Rickettsia prowazekii* and *Rickettsia typhi*. Primers and probes were selected to amplify a segment of the 16S rRNA gene of *Rickettsia* spp. for the pan-rickettsial PCR and the citrate synthase gene (*gltA*) for the typhus group rickettsia PCR. Analytical sensitivity was 10 copies of control plasmid DNA per reaction. No cross-amplification was observed when testing human DNA and 22 pathogens or skin commensals. Real-time PCR was applied to 16 clinical samples. Rickettsial DNA was detected in the skin biopsies of three patients. In one patient with severe murine typhus, the typhus group PCR was positive in a skin biopsy from a petechial lesion and seroconversion was later documented. The two other patients with negative typhus group PCR suffered from Mediterranean and African spotted fever, respectively; in both cases, skin biopsy was performed on the eschar. Our duplex real-time PCR showed a good analytical sensitivity and specificity, allowing early diagnosis of rickettsiosis among three patients, and recognition of typhus in one of them.



References

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Development of a duplex real-time PCR for the detection of Rickettsia spp. and typhus group rickettsia in clinical samples.

Giulieri S¹, Jatou K, Cometta A, Trellu LT, Greub G.

Author information

Abstract
Molecular diagnosis using real-time polymerase chain reaction (PCR) may allow earlier diagnosis of rickettsiosis. We developed a duplex real-time PCR that amplifies (1) DNA of any rickettsial species and (2) DNA of both typhus group rickettsia, that is, Rickettsia prowazekii and Rickettsia typhi. Primers and probes were selected to amplify a segment of the 16S rRNA gene of Rickettsia spp. for the pan-rickettsial PCR and the citrate synthase gene (gltA) for the typhus group rickettsia PCR. Analytical sensitivity was 10 copies of control plasmid DNA per reaction. No cross-amplification was observed when testing human DNA and 22 pathogens or skin commensals. Real-time PCR was applied to 16 clinical samples. Rickettsial DNA was detected in the skin biopsies of three patients. In one patient with severe murine typhus, the typhus group PCR was positive in a skin biopsy from a petechial lesion and seroconversion was later documented. The two other patients with negative typhus group PCR suffered from Mediterranean and African spotted fever, respectively; in both cases, skin biopsy was performed on the eschar. Our duplex real-time PCR showed a good analytical sensitivity and specificity, allowing early diagnosis of rickettsiosis among three patients, and recognition of typhus in one of them.

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Dataset Multifaceted intervention for patients admitted to an emergency unit for suicide attempt: an exploratory study

Brovelli Sebastien; Dorogi Yves; Feiner Adam-Scott; Golay Philippe; Stiefel Friedrich; Bonsack Charles; Michaud Laurent;

This dataset is related to "Multifaceted intervention for patients admitted to an emergency unit for suicide attempt: an exploratory study" (Brovelli S., Dorogi Y., Feiner A.-S., Golay P., Stiefel F., Bonsack C. & Michaud L.)

Uploaded on April 11, 2017

March 20, 2017

Software

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Virtual Machine and dataset for Multi-channel MRI segmentation of eye structures and tumors using patient-specific features

Carlos Ciller; Sandro De Zanet; Konstantinos Kamnitsas; Philippe Maeder; Ben Glocker; Francis L. Munier; Daniel Rueckert; Jean-Philippe Thiran; Meritxell Bach Cuadra; Raphael Sznitman;

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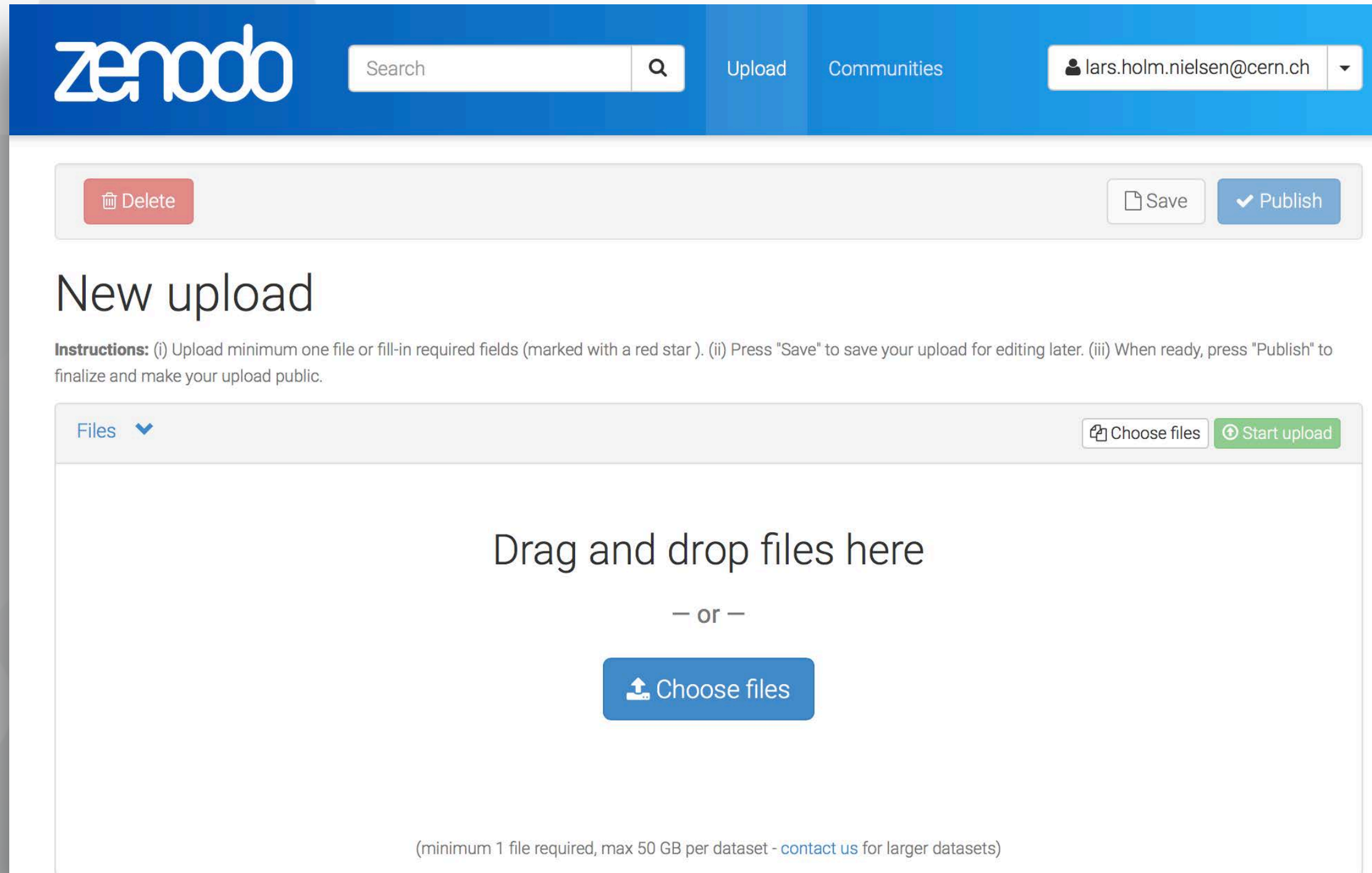
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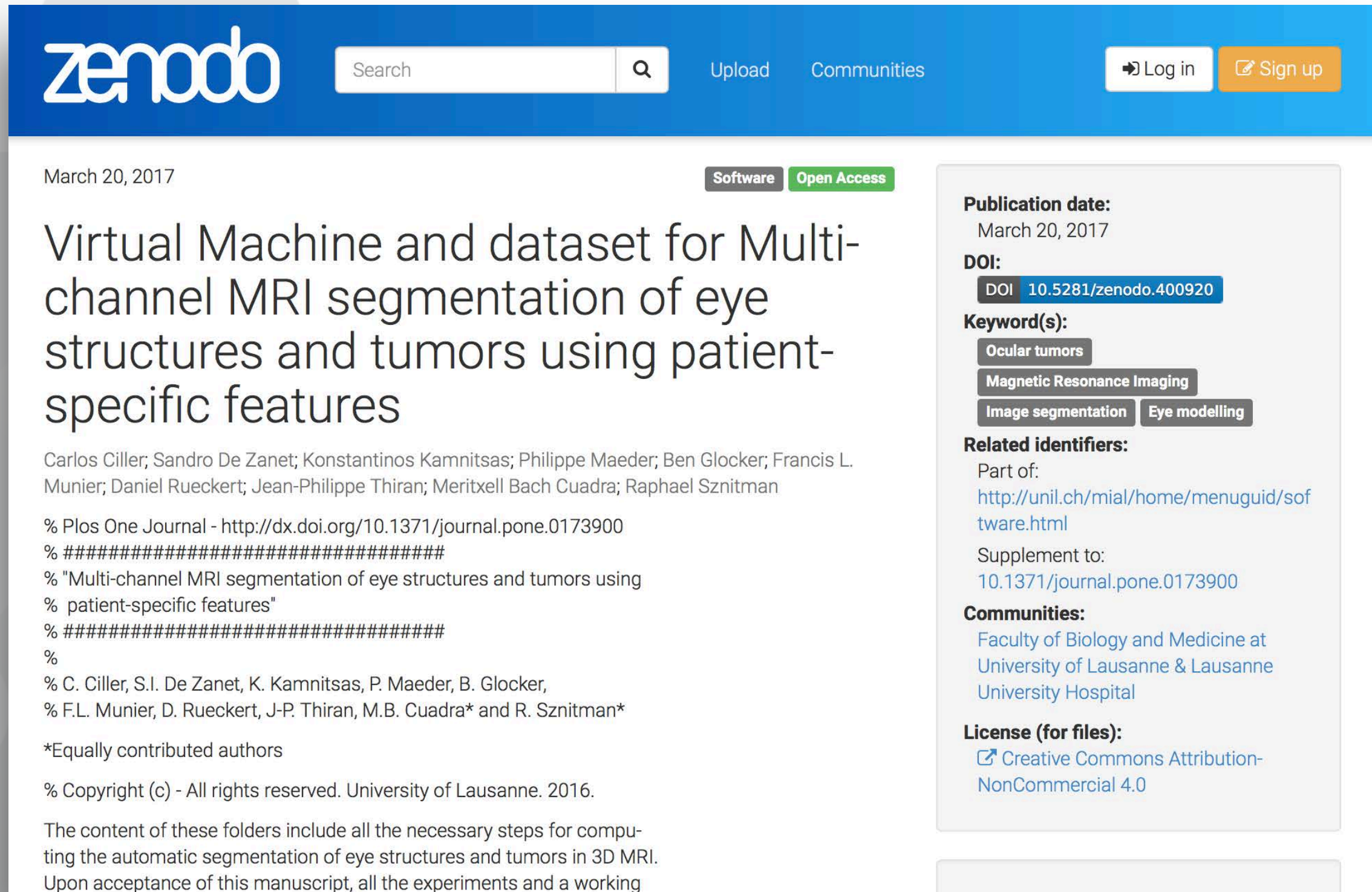
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March 20, 2017 **Software** **Open Access**

Virtual Machine and dataset for Multi-channel MRI segmentation of eye structures and tumors using patient-specific features

Carlos Ciller; Sandro De Zanet; Konstantinos Kamnitsas; Philippe Maeder; Ben Glocker; Francis L. Munier; Daniel Rueckert; Jean-Philippe Thiran; Meritxell Bach Cuadra; Raphael Sznitman

% Plos One Journal - <http://dx.doi.org/10.1371/journal.pone.0173900>
% #####
% "Multi-channel MRI segmentation of eye structures and tumors using
% patient-specific features"
% #####
%
% C. Ciller, S.I. De Zanet, K. Kamnitsas, P. Maeder, B. Glocker,
% F.L. Munier, D. Rueckert, J-P. Thiran, M.B. Cuadra* and R. Sznitman*

*Equally contributed authors

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The content of these folders include all the necessary steps for computing the automatic segmentation of eye structures and tumors in 3D MRI. Upon acceptance of this manuscript, all the experiments and a working

Publication date:
March 20, 2017

DOI:
DOI [10.5281/zenodo.400920](https://doi.org/10.5281/zenodo.400920)

Keyword(s):
Ocular tumors
Magnetic Resonance Imaging
Image segmentation Eye modelling

Related identifiers:
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<http://unil.ch/mial/home/menuguid/software.html>
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September 15, 2016


Journal article Embargoed Access

Early detection of human glioma sphere xenografts in mouse brain using diffusion MRI at 14.1 T

Porcari, P; Hegi, M E; Lei, H; Hamou, M-F; Vassallo, I; Capuani, S; Gruetter, R; Mlynarik, V

Glioma models have provided important insights into human brain cancers. Among the investigative tools, MRI has allowed their characterization and diagnosis. In this study, we investigated whether diffusion MRI might be a useful technique for early detection and characterization of slow-growing and diffuse infiltrative gliomas, such as the proposed new models, LN-2669GS and LN-2540GS glioma sphere xenografts. Tumours grown in these models are not visible in conventional T2-weighted or contrast-enhanced T1-weighted MRI at 14.1 T. Diffusion-weighted imaging and diffusion tensor imaging protocols were optimized for contrast by exploring long diffusion times sensitive for probing the microstructural alterations induced in the normal brain by the slow infiltration of glioma sphere cells. Compared with T2-weighted images, tumours were properly identified in their early stage of growth using diffusion MRI, and confirmed by localized proton MR spectroscopy as well as immunohistochemistry. The first evidence of tumour presence was revealed for both glioma sphere xenograft models three months after tumour implantation, while no necrosis, oedema or haemorrhage were detected either by MRI or by histology. Moreover, different values of diffusion indices, such as mean diffusivity and fractional anisotropy, were obtained in tumours grown from LN-2669GS and LN-2540GS glioma sphere lines. These observations highlighted diverse tumour microstructures for both xenograft models, which were reflected in histology. This study demonstrates the ability of diffusion MRI techniques to identify and investigate early stages of slow-growing, invasive tumours in the mouse brain, thus providing a potential imaging biomarker for early detection of tumours in humans.

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Publication date:
September 15, 2016


DOI:
DOI 10.1002/nbm.3610

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April 11, 2017

DatasetRestricted Access

Dataset Multifaceted intervention for patients admitted to an emergency unit for suicide attempt: an exploratory study

Brovelli Sebastien; Dorogi Yves; Feiner Adam-Scott; Golay Philippe; Stiefel Friedrich; Bonsack Charles; Michaud Laurent

This dataset is related to "Multifaceted intervention for patients admitted to an emergency unit for suicide attempt: an exploratory study" (Brovelli S., Dorogi Y., Feiner A.-S., Golay P., Stiefel F., Bonsack C. & Michaud L.)

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When do agents outperform centralized algorithms? - A systematic empirical evaluation in logistics - code

Rinde R.S. van Lon

Code for 'When do agents outperform centralized algorithms? - A systematic empirical evaluation in logistics'. Rinde R.S. van Lon and Tom Holvoet. Journal of Autonomous Agents and Multi-Agent Systems (2017).

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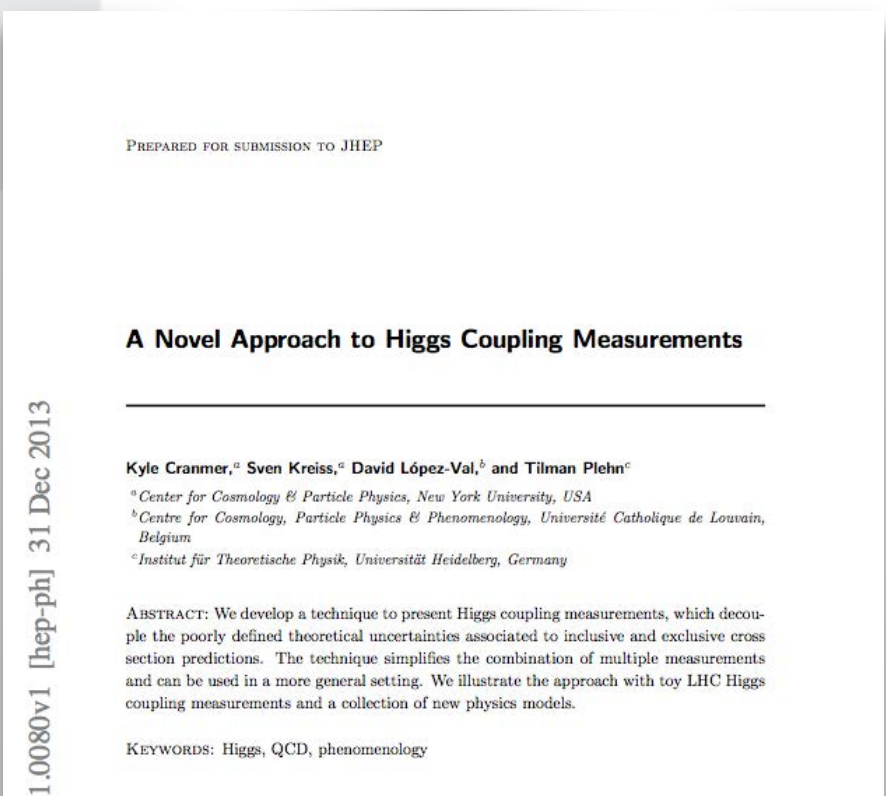
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Horizon 2020

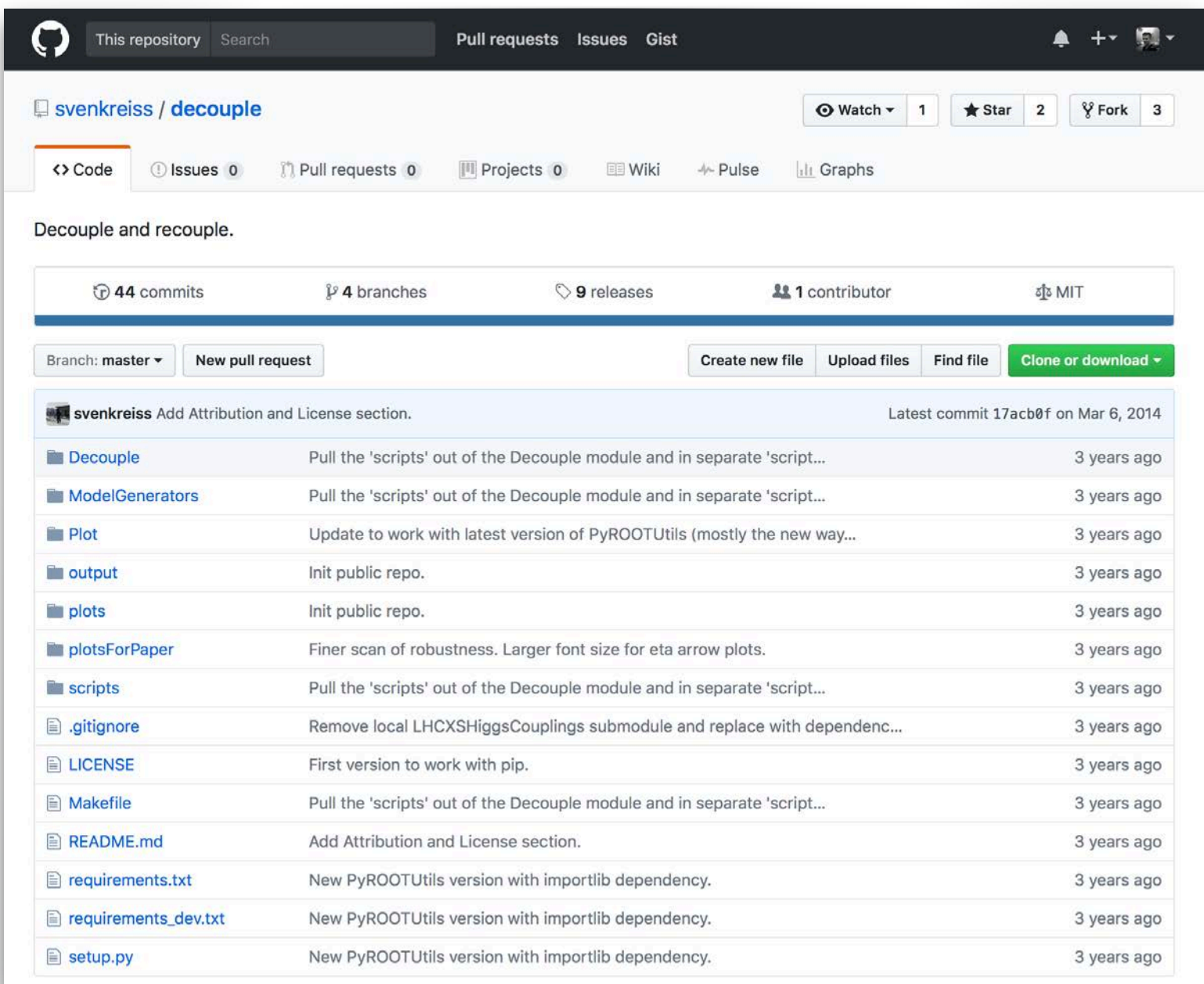
The screenshot shows the OpenAIRE website interface. At the top, there is a navigation bar with the OpenAIRE logo, a home icon, and links for PARTICIPATE (DEPOSIT, JOIN), SEARCH (PUBLICATIONS, DATA, PROJECTS), STATISTICS (OA, PROJECTS, TOPICS), SUPPORT (FAQ, HELPDESK, GUIDES), and OPEN ACCESS (IN EUROPE). Social media icons and links for NEWSLETTER, LOGIN, and REGISTER are also present. Below the navigation bar, there is a search bar with 'Home', 'Search', and 'Find' options. The main content area displays a dataset titled 'Drosophila simulans template brains' by Ostrovsky, Aaron D.; Goetz, Lea; Jefferis, Gregory S. X. E. (2014). The dataset is described as 'Male and female symmetric averaged templates (11 and 10 brains, respectively) and intersex template brain for *Drosophila simulans*. Voxel size: (0.461, 0.461, 1) micron.' To the right of the dataset description, there is a 'Share - Bookmark' section with social media icons and a 'Download from' section with a 'Zenodo' link. A red circle highlights the 'Funded by projects' section, which lists 'OLFPERCEPT (211089)' with an information icon. Below this, there is a 'Cite this dataset' section with a 'BibTeX' button.

The screenshot shows the OpenAIRE website interface with the 'Publications' tab selected. The navigation bar is identical to the previous screenshot. Below the navigation bar, there are tabs for 'Publications', 'Data', and 'Statistics'. The main content area displays a list of publications. The first publication is 'Comparing copepod time-series in the north of Spain: Spatial autocorrelation of community composition' by Bode, Antonio; Alvarez-ossorio, Maria Teresa; Miranda, Ana; López-urrutia, Angel; Valdés, Luis (2012). The second publication is 'An overview of APECOSM, a spatialized mass balanced "Apex Predators ECOSystem Model" to study physiologically structured tuna population dynamics in their ecosystem' by Maury, Olivier (2010). Both publications are associated with the 'EURO-BASIN (264933)' project. The 'Funded by projects' section from the previous screenshot is also visible in the background.

GitHub



[25] K. Cranmer, S. Kreiss, D. López-Val, T. Plehn,
<https://github.com/svenkreiss/decouple>.



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DOI 10.5281/zenodo.8475

(example)

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 [Inielsen/Kibet-F1000Research](#)

DOI 10.5072/zenodo.64201

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CERN?

Zenodo is offered by CERN as part of its mission to
make available the results of its work

Article II

Purposes

1. The Organization shall provide for collaboration among European States in nuclear research of a pure scientific and fundamental character, and in research essentially related thereto. The Organization shall have no concern with work for military requirements and the results of its experimental and theoretical work shall be published or otherwise made generally available.

Funded by



Behind Zenodo



CERN Data Centre

- ~150PB disk
- ~185PB tape
- ~110k CPUs

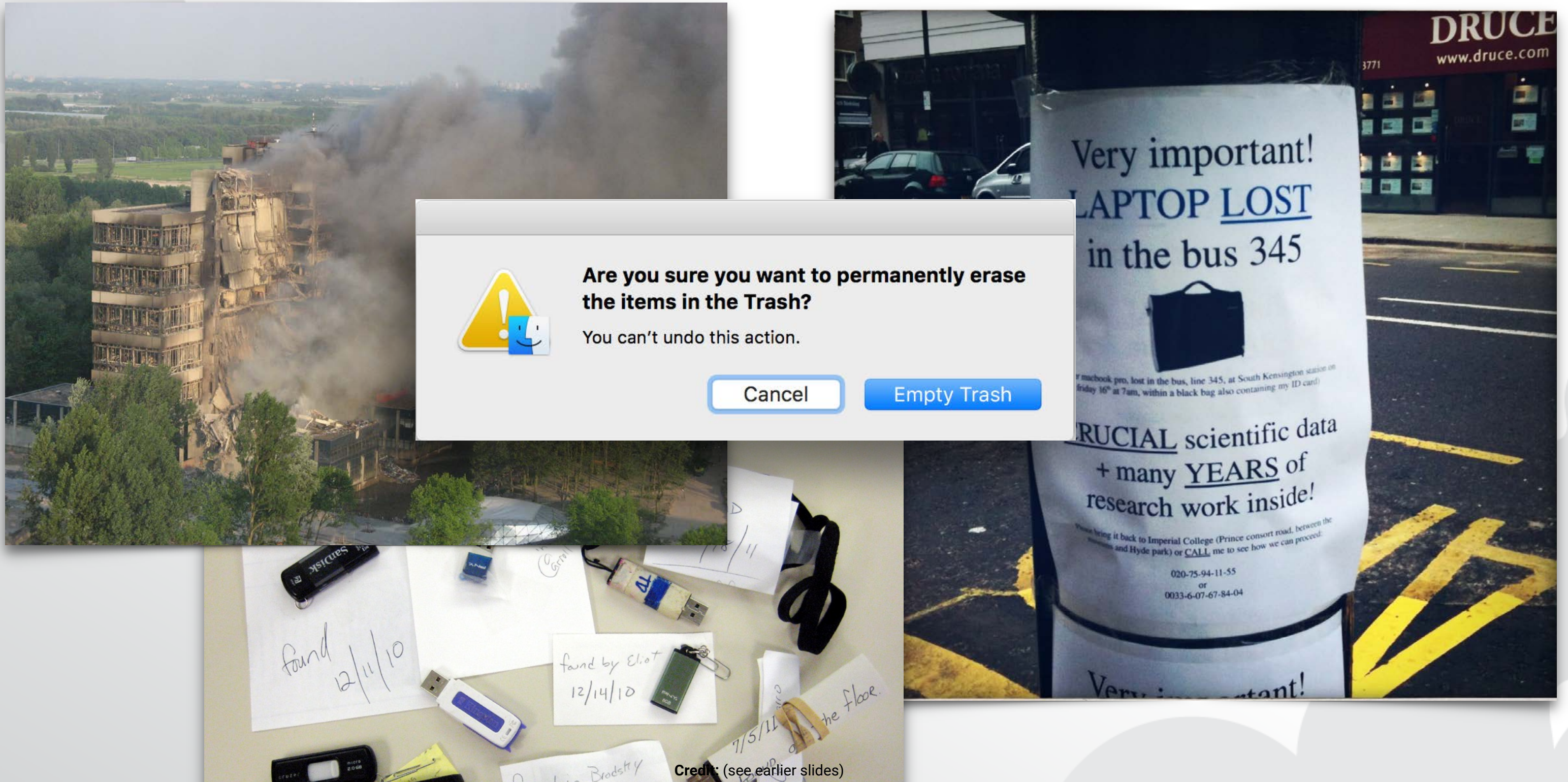
Services

- Digital repositories
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Credit: (see earlier slides)



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