



EURÓPSKA ÚNIA
Európske štrukturálne a investičné fondy
OP Integrovaná infraštruktúra 2014 – 2020



MINISTERSTVO
DOPRAVY A VÝSTAVBY
SLOVENSKEJ REPUBLIKY



MINISTERSTVO
ŠKOLSTVA, VEDY,
VÝSKUMU A ŠPORTU
SLOVENSKEJ REPUBLIKY



NISP^{IV}

ZVEREJŇOVANIE VEDECKÝCH DÁT z HĽADISKA VYDAVATEĽA

Jitka Dobbersteinová, CVTI SR

VALIDÁCIA , OPÄTOVNÉ POUŽITIE a CITOVANOSŤ DÁT

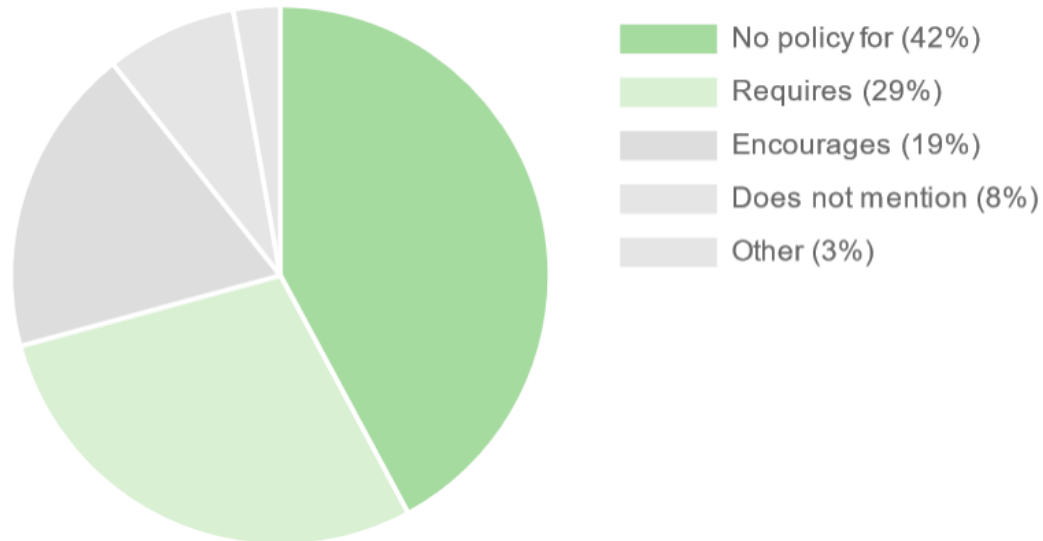


Validácia výskumu a opätovné využitie výskumných dát

transparentnosť, reprodukovateľnosť a efektívnosť financovania

[Sherpa/Juliet register](#) – 178 grantových agentúr

Data Archiving Policies



„as open as possible as closed as necessary“
DM costs – oprávnené náklady

2. Citovanie a zvýšenie čítanosti

- Colavizza G, Hrynaszkiewicz I, Staden I, Whitaker K, McGillivray B (2020) The citation advantage of linking publications to research data. In PLoS ONE 15(4): e0230416.
<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0230416>

PLOS, BMC - články odkazujúce na dáta v úložisku, až o 25% vyšší citačný vplyv ako je priemerná citovanosť článku po 3 rokoch od vydania.

- Vydavateľstvo Wiley: [Researcher Data Insights Survey](#), marec 2014, viac ako 2000 vedcov globálne

2/3 autorov zverejňuje dáta prostredníctvom vedeckých časopisov

GLOBAL DATA SHARING TRENDS

Data sharing practices vary widely across research fields and geographic areas. Just over half of researchers report making their data publicly available, though archiving results in repositories is not yet the norm.



WAYS DATA IS SHARED

- 📄 67% As supplementary material in a journal
- 🌐 37% Personal, institutional or project webpage
- 🏛️ 26% Institutional data repository (i.e. university or institute-sponsored)
- 🗂️ 19% Discipline-specific data repository
- 📁 6% General-purpose data repository (e.g. Dryad, figshare)
- ✓ 5% Other

Globally, researchers also report sharing their data in limited and non-permanent ways: 57% are sharing data at a conference while 42% of researchers share their data upon informal request (e.g. email, direct contact, etc.).

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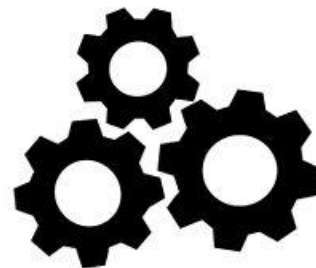
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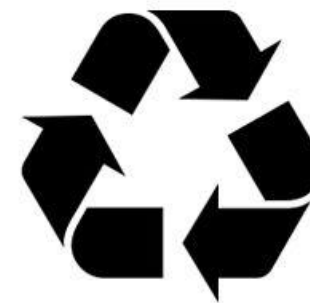
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opätovne použiteľné

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- **NÁJDITEĹNÉ (opísať)**

metadáta

- **PRÍSTUPNÉ (otvoriť)**

dátové licencie

- **INTEROPERABILNÉ (prepojiť)**

trvalé identifikátory

- **OPÄTOVNE POUŽITEĹNÉ (uložiť a zverejniť)**

rezpozitáre a úložiská



NÁJDITEĽNÉ (OPÍSAŤ)

Riadené slovníky <https://guides.lib.utexas.edu/metadata-basics/controlled-vocabs>

Dataset of adjusted monthly data for aggregate U.S. consumption expenditures and equity returns, 1959-2013



SCHÜTZE, Fabian



EUI Research Data, 2014, Department of Economics

Dataset of adjusted monthly data for aggregate U.S. consumption expenditures and equity returns, 1959-2013, sourced from Robert Shiller stock market database, 1992-2013; and Federal Reserve Economic Data (FRED) on aggregate consumption - generated in the context of a research project illustrating an econometric technique, Generalised Method of Moments (GMM).

Cite

Additional information: 1 data file. Dataset elaborated from Robert Shiller stock market database, 1992-2013; and Federal Reserve Economic Data (FRED) on aggregate consumption.

Cadmus permanent link: <http://hdl.handle.net/1814/64586>

Full-text via DOI: [10.2870/342675](https://doi.org/10.2870/342675)

Series/Number: EUI Research Data; 2014; Department of Economics

Publisher: European University Institute, ECO

Keyword(s): [Statistical data](#) [Consumption](#) [Equity prices](#) [E20](#) [E21](#) [G12](#)

LC Subject Heading: Consumption (Economics) -- United States -- Statistics -- Databases; Stocks -- Prices -- United States



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dátové licencie („as open as possible as closed as necessary“)

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trvalé identifikátory

- **OPÄTOVNE POUŽITEĹNÉ (uložiť a zverejniť)**

repozitáre a úložiská



LICENCIE

- Dáta ako autorské dielo (software): licencie Creative Commons
- Dáta ako dátový súbor (neštruktúrované dáta, ktoré nespĺňajú definíciu databázy),

Vyhláška č.78/2020 o štandardoch pre informačné technológie verejnej správy
§ 39 Otvorené údaje

Autorský zákon č.185/2015 Z.z., § 76 Verejná licencia



PRÍSTUPNÉ (ACCESSIBLE)

Ako aplikovať licencie na výskumné dáta?

Vlastník dát chránených právami musí jednoznačne vyjadriť, že na dáta sa vzťahuje licencia. Ak ukladáte dáta v repozitároch, tieto vám môžu pomôcť vybrať vhodnú licenciu.

- zvolenie vhodnej licencie pri nahratí dát do repozitára (výber licencie),
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- uvedenie licencie medzi metadátami výskumných dát,
- vytvorenie separátneho súboru README pre dáta.

PRÍSTUPNÉ (ACCESSIBLE)

<https://otvorenaveda.cvtisr.sk/sprievodca-licenciami-creative-commons-nielen-pre-autorov-monografii-z-oblasti-spolocenskych-vied/>

webinár **Copyright a verejné licencie**

Dátum a čas: streda **27.4.2022** ,13:00 – 14:00 hod.

Link na webinár: <https://video.nti.sk/live/?219098OH1D6B1550>





- **NÁJDITEĹNÉ (opísať)**

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trvalé identifikátory

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rezpozitáre a úložiská





INTEROPERABILNÉ

Weather dataset from Otemma glacier forefield, Switzerland (from 14 July 2019 to 18 November 2021)

 Müller, Tom

Project leader(s)

 Schaefli, Bettina;  Lane, Stuart N.

Weather data collected in the Otemma forefield (Switzerland) from 14 July 2019 to 18 November 2021.

Data were collected by the research teams of Bettina Schaefli² and Stuart N. Lane¹.

¹ Institute of Earth Surface Dynamics (IDYST), University of Lausanne, 1015 Lausanne, Switzerland

² Institute of Geography (GIUB), University of Bern, 3012 Bern, Switzerland

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54

 views

48

 downlo

[See more details...](#)

Indexed in

OpenAIR

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DOI:

DOI [10.5281/zenodo.6106778](https://doi.org/10.5281/zenodo.6106778)



- **NÁJDITEĹNÉ (opísať)**

metadáta

- **PRÍSTUPNÉ (otvoriť)**

dátové licencie

- **INTEROPERABILNÉ**

trvalé identifikátory

- **OPÄTOVNE POUŽITEĹNÉ (uložiť a zverejniť)**

rezpozitáre a úložiská



Registre dátových repozitárov a ich politik

- <https://www.re3data.org/>
- <https://fairsharing.org/>
- <https://v2.sherpa.ac.uk/opensoar/>
- <http://roar.eprints.org/>

Subjects:

Arts
Engineering
Health and Medicine
Humanities
Mathematics
Science
Social Sciences
Technology

Any of these

- Journal Articles
- Bibliographic References
- Conference and Workshop Papers
- Theses and Dissertations
- Reports and Working Papers

- Books, Chapters and Sections
- Datasets
- Learning Objects
- Software
- Patents
- Other Special Item Types

Registre dátových repozitárov a ich politik

Podporované **vedeckou komunitou v určitej vedeckej disciplíne:**

<https://www.nature.com/nature-portfolio/editorial-policies/reporting-standards#mandates-for-specific-datasets>

- makromolekulové dáta - [Worldwide Protein Data Bank \(wwPDB\)](#)
- DNA and RNA sequences - [Genbank](#)

Ako spoznať dobrý repozitár/úložisko?

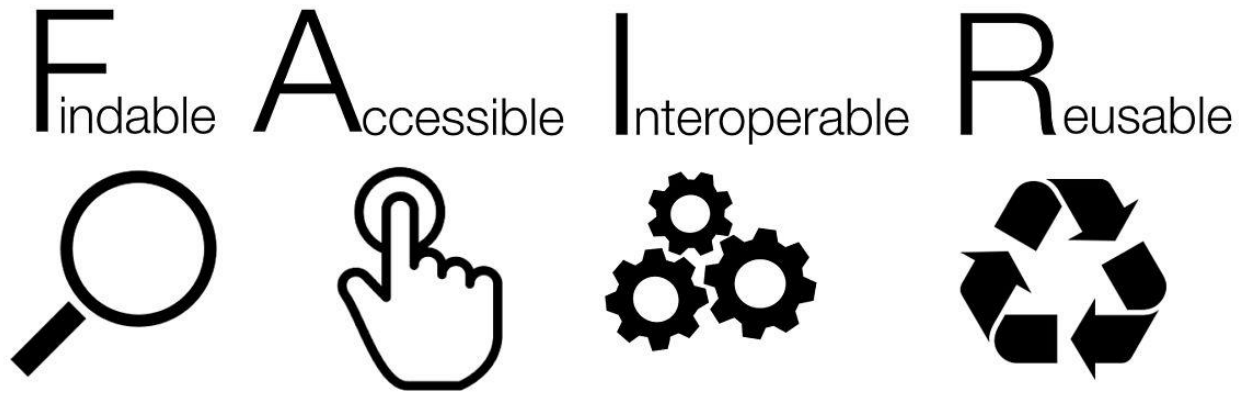
- zabezpečiť dlhodobé uchovávanie a uchovávanie súborov dát (minimálne 5 rokov po zverejnení),
- certifikáty a štandardy,
- byť podporovaný výskumnou komunitou alebo výskumnou inštitúciou,
- poskytnúť uloženým súborom dát stabilné a trvalé identifikátory (PID), napr. DataCite/DOI,
- záznam (landing page s metadátami),
- štatistiky a údaje o downloadovaní,



Ako spoznám dobrý repozitár/úložisko?

- umožniť prístup k dátam bez zbytočných obmedzení (výnimka ochrany duševného vlastníctva, etické štandardy...)
- poskytnúť jasné podmienky používania dát a prístupu,
- návod ako citovať uložené dáta,
- uľahčiť prístup anonymného recenzenta k dátam, na ktoré bolo uvalené embargo.
- poplatky za služby?





1. metadáta (metadátová politika)
2. verejné licencie
3. trvalý identifikátor
4. repozitár/úložisko

The image features a light gray background with a subtle, abstract pattern of overlapping circles. In the four corners, there are decorative elements consisting of thin, dark blue lines that branch out and terminate in small circles, resembling a stylized circuit board or data network.

Dátová politika redakcie

REDAKČNÝ PROCES - PRIJÍMANIE PRÍSPEVKOV, RUKOPISY:

Dátová politika redakcie

Časopisy ponúkajú rôzne politiky od podpory zdieľania údajov cez silnú podporu až po povinné zdieľanie údajov.

Autor má zodpovednosť za transparentnosť a kvalitu predkladaných dát, ich uchovávaní a kvalitu. Najneskôr pri publikovaní (ale ideálne v čase generovania) by vedecký pracovník mal mať vybraný repozitár.

- definícia zodpovedností autora a poctivá správa dát pred odoslaním,
- FAIR princípy
- inštrukcie a návody pre autorov (odporúčané repozitáre – metadáta, PID, licencie...

- Sú dáta zdieľané v dôveryhodnom repozitári? Je k dispozícii vhodnejšie miesto pre konkrétnu disciplínu?
- Sú poskytnuté dáta úplné, konzistentné a zodpovedajú rukopisu a metadátam?
- Obsahujú dáta citlivé údaje, ktoré by mali byť odstránené alebo anonymizované?
- Sú dáta primerane licencované, aby sa maximalizovalo opätovné použitie?
- Poskytujú ich metadáta dostatočný kontext pre iného výskumníka? Sú súbory usporiadané spôsobom, ktorý podporuje prístup a opätovné použitie?

REDAKČNÝ PROCES - PRIJÍMANIE PRÍSPEVKOV, RUKOPISY:

- Citačná politika (citačný štýl)

<https://force11.org/info/joint-declaration-of-data-citation-principles-final/>

<https://data.research.cornell.edu/content/data-citation>

Box 1 | Reference style examples for citing data

Numbered style:

[dataset] [27] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, Mendeley Data, v1, 2015. <https://doi.org/10.17632/xwj98nb39r.1>

[dataset] [28] D. Deng, C. Xu, P.C. Sun, J.P. Wu, C.Y. Yan, M.X. Hu, N. Yan, Crystal structure of the human glucose transporter GLUT1, Protein Data Bank, 21 May 2014. <https://identifiers.org/pdb:4pyp>

Harvard style:

[dataset] Farhi, E., Maggiori, M., 2017. "Replication Data for: 'A Model of the International Monetary System'", Harvard Dataverse, V1. <https://doi.org/10.7910/DVN/8YZT9K>

[dataset] Aaboud, M, Aad, G, Abbott, B, Abdallah, J, Abdinov, O, Abeloos, B, AbouZeid, O, Abraham, N, Abramowicz, H, Abreu, H., 2017. Dilepton invariant mass distribution in SRZ. HEPData, 2017-02-08. <https://doi.org/10.17182/hepdata.76903.v1/t1>

Vancouver style:

[dataset] [52] Wang G, Zhu Z, Cui S, Wang J. Data from: Glucocorticoid induces incoordination between glutamatergic and GABAergic neurons in the amygdala. Dryad Digital Repository, August 11, 2017. <https://doi.org/10.5061/dryad.k9q7h>

[dataset] [17] Polito VA, Li H, Martini-Stoica H, Wang B et al. Transcription factor EB overexpression effect on brain hippocampus with an accumulation of mutant tau deposits. Gene Expression Omnibus, December 19, 2013. <https://identifiers.org/GEO:GDS5303>

APA style:

[dataset] Golino, H., Gomes, C. (2013). Data from the BAFACALO project: The Brazilian Intelligence Battery based on two state-of-the-art models: Carroll's model and the CHC model. Harvard Dataverse, V1, <https://doi.org/10.7910/DVN/23150>

[dataset] Justice, L. (2017). Sit Together and Read in Early Childhood Special Education Classrooms in Ohio (2008-2012). ICPSR 36738. <https://doi.org/10.3886/ICPSR36738.v1>

AMA style:

[dataset] 12. Kory Westlund, J. Measuring children's long-term relationships with social robots. Figshare, v2; 2017. <https://doi.org/10.6084/m9.figshare.5047657>

[dataset] 34. Frazier, JA, Hodge, SM, Breeze, JL, Giuliano, AJ, Terry, JE, Moore, CM, Makris, N. CANDI Share Schizophrenia Bulletin 2008 data; 2008. Child and Adolescent NeuroDevelopment Initiative. <https://dx.doi.org/10.18116/C6159Z>

2. REDAKČNÝ PROCES – recenzie

Príklady:

[Open Science Framework](#)

[Figshare](#)

[Dataverse](#)

[Zenodo](#)

Recenzovanie:

blind peer-review: 'view-only' linka

- autori ukladajú svoje údaje do súkromného úložiska počas dokončovania rukopisu pred odoslaním
- 'view-only' linka poskytne komukoľvek prístup spôsobom, ktorý skryje metadáta a recenzenti nebudú vidieť mená autorov, pôvod apod.
- po prijatí príspevku autori „prepnú“ mód uloženia dát zo súkromného na verejné a z rukopisu sa odstráni odkaz „len na prezeranie“ a nahradí sa DOI do verejného repozitára. Redaktor alebo copyeditor skontroluje, či rukopis má teraz DOI, pretože platnosť odkazov „view only“ zvyčajne vyprší po niekoľkých mesiacoch.

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Influence of Gene Mutations on Fruit Fly Lifespan

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Contributors: Rebecca Rosenblatt

Affiliated Institutions: Center For Open Science

Date created: 2018-04-20 03:30 PM | Last Updated: 2018-04-20 03:30 PM

Category: Project

Description: Add a brief description to your project

License: Add a license

Wiki

Add important information, links, or images here to describe your project.

Files

Click on a storage provider or drag and drop to upload

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Name Modified

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OSF Storage (United States)

Citation osf.io/d5vu9

Components Add Component Link Projects

Add components to organize your project.

Tags

Add a tag to enhance discoverability

3. REDAKČNÝ PROCES – publikovanie

VYHLÁSENIE O DOSTUPNOSTI DÁT (DATA AVAILABILITY STATEMENT, DAS)

Quantification and statistical analysis

The differences in distribution for m⁶A enrichment score and log₂ FPKM between samples were detected by Wilcoxon test. Pearson test was used to perform correlation analysis. All statistical analysis and graphs of results in Figs. 3d, 4d, 5a, 5c–5f and 6f, and Additional file 1: Figures S5c, S6a, S7d, S7e, S8a and S8g were assessed using two-tailed unpaired Student's *t*-test and performed using GraphPad Prism 6.0 software. Results are presented as mean ± s.e.m. Immunoreactive cells in 3–5 randomly selected lobules of one cerebellum were counted using Stata-Quest 5.0 software. For each subject, data were collected from five to seven mice. For each mouse, data were obtained from the immunostaining results of two to three near-midline slices.

Additional files

Additional file 1: Figure S1. Dynamic RNA methylation in the developing mouse cerebellum. **Figure S2.** Comparison between continuous and temporal specific methylation during mouse cerebellar development. **Figure S3.** Comparison of RNA methylation between P7 and P60 based on m⁶A peaks identified using MACS2. **Figure S4.** Correlation between RNA methylation and gene expression during cerebellar development. **Figure S5.** Morphology analysis of mouse cerebellum upon lentivirus infection for *Mettl3* overexpression. **Figure S6.** Phenotype analysis of the cerebellum in the WT and KO mice under normoxic condition. **Figure S7.** Morphology analysis of the cerebellum in WT and KO mice exposed to hypobaric hypoxia and normoxia successively. **Figure S8.** Dysregulated RNA methylation resulting from *Alkbh5* deficiency in mouse cerebellum exposed to hypobaric hypoxia. **Table S1.** Data quality and processing information of m⁶A-seq of poly(A) RNA from wild-type mouse cerebellum (P7, P14, P21, and P60), the cerebellum of wild-type (WT) and *Alkbh5* knockout (KO) mice exposed to hypobaric hypoxia (P7). **Table S2.** Statistics of m⁶A peaks and expressed RNAs in wild-type mouse cerebellum (P7, P14, P21, and P60), the cerebellum of wild-type (WT) and *Alkbh5* knockout (KO) mice exposed to hypobaric hypoxia (P7). **Table S3.** Numbers of m⁶A peaks located in different regions of mRNA transcripts in wild-type mouse cerebellum at P7, P14, P21, and P60. **Table S9.** List of antibodies and their applications used in this study. **Table S10.** List of primers for RT-qPCR used in this study. (PDF 14643 kb)

Additional file 2: Table S4. GO analysis of genes containing m⁶A ON and OFF switches during mouse cerebellar development. (XLSX 564 kb)

Additional file 3: Table S5. GO analysis of genes encoded by the CMRs at P7 and P60, and SMRs at the four developmental stages. (XLSX 128 kb)

Additional file 4: Table S6. GO and KEGG pathway enrichment

Genomes; KO: *Alkbh5*-knockout; m⁶A: N⁶-methyladenosine; P7: Postnatal day 7; PCL: Purkinje cell layer; PH3: Phospho-histone 3; SMRs: Specifically methylated RNAs; UHPLC-MS/MS: Ultra high performance liquid chromatography-mass spectrum/mass spectrum analysis; TBST: Tris Buffered Saline with Tween 20; WT: Wild-type

Acknowledgements

We thank Prof. Xu Q and Dr. Ma K-L for their generosity in offering lentivirus vectors.

Funding

This work was supported by the National Natural Science Foundation of China (31471288 to NY, 31471343 to TWM), CAMS Initiative for Innovative Medicine (2016-I2M-1-004 to NY, 2016-I2M-2-001 to TWM), and The Youth Innovation Promotion Association of Chinese Academy of Science (2017141 to SS)

Availability of data and materials

The datasets have been deposited in the Sequenced Read Archive (SRA) under accession number PRJNA400297 (SRX3136161-SRX3136172) [78], and also in the Genome Sequence Archive [79] in BIG Data Center [80], Beijing Institute of Genomics (BIG), Chinese Academy of Science under accession number CRA000472 [81].

Authors' contributions

NY and TWM conceived the project and, with SS and KA, designed the data analysis. MC performed phenotype analysis. CM performed m⁶A-IP and phenotype analysis. LH, ZW and TX performed bioinformatic analyses. ZZW performed lentivirus infection experiments. HX performed mouse brain dissection experiments. WG performed plasmid construction experiments. ZS and ZY assisted with immunostaining analyses. WD assisted with western blot analyses. LC and LQ performed MRI analysis. NY, MC and LH wrote the manuscript with input from all authors. All authors read and approved the final manuscript.

Ethics approval

All animal experiments and euthanasia were approved and performed in accordance with the guidelines of Animal Care and Use Committee of IBMS/PUMC. The IRB (Institutional Review Board) approval number is ACUC-A02-2014-001.

Competing interests

The authors declare that they have no competing interests.

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Availability of data and materials

The datasets have been deposited in the Sequenced Read Archive (SRA) under accession number PRJNA400297 (SRX3136161-SRX3136172) [78], and also in the Genome Sequence Archive [79] in BIG Data Center [80], Beijing Institute of Genomics (BIG), Chinese Academy of Science under accession number CRA000472 [81].

78. Chunhui Ma, Mengqi Chang, Hongyi Lv, Yamei Niu, Shuhui Song, Wei-Min Tong, et al: RNA m⁶A methylation participates in regulation of postnatal development of the mouse cerebellum. SRA PRJNA400297. 2017. <https://www.ncbi.nlm.nih.gov/sra/?term=PRJNA400297>. Accessed 25 Apr 2018.
79. Wang Y, Song F, Zhu J, Zhang S, Yang Y, Chen T, Tang B, Dong L, Ding N, Zhang Q, et al. GSA: Genome Sequence Archive. *Genomics Proteomics Bioinformatics*. 2017;15:14–8.
80. Members BIGDC. The BIG Data Center: from deposition to integration to translation. *Nucleic Acids Res*. 2017;45:D18–24.
81. Chunhui Ma, Mengqi Chang, Hongyi Lv, Yamei Niu, Shuhui Song, Wei-Min Tong, et al: RNA m⁶A methylation participates in regulation of postnatal development of the mouse cerebellum. GSA CRA000472. 2017. <http://bigd.big.ac.cn/search?dbld=gsa&q=CRA000472>. Accessed 25 Apr 2018.

Vyhlásenie o dostupnosti dát (Data Availability Statement)

DAS 1:

The histology images supporting Fig. 2 and Figs. 4–8, are publicly available in the figshare repository, as part of this record: <https://doi.org/10.6084/m9.figshare.11907768> [47]. Data supporting Fig. 3, Tables 1–5 and Supplementary Tables 1–3 are not publicly available in order to protect patient privacy.

DAS 2:

- Dataset D1 nie je verejne prístupný z dôvodu ochrany osobných údajov (GDPR).
- Lokalizačné dáta k výskytu koaly popolavej nie sú k dispozícii z dôvodu ochrany živočíšnych druhov.

DAS 3:

GPS dáta boli získané od SPOLOČNOSTI X, ktorá neumožnila verejné zdieľanie týchto dát. Dáta sú k dispozícii na vyžiadanie na x@xmail.com

POZVÁNKA

ČO NOVÉ V OBČIANSKEJ VEDE NA SLOVENSKU?

13. APRÍLA 2022 | 13.00 - 15:00
ONLINE WEBINÁR



OBČIANSKA
VEDA IDE AJ
NA SLOVENSKU.
ZISTITE AKO
A STAŇTE SA
JEJ SÚČASŤOU

OTVORENÁ VEDA CVTI SR

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Európske štrukturálne a investičné fondy
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Čo nové v občianskej vede na Slovensku?

- Dátum a čas: streda 13.4.2022 13:00 – 15:00hod.
- Link na webinár: <https://video.nti.sk/live/?2193610OAV61QS42>

Aké kroky vedú k úspešnej prezentácii výsledkov vlastnej práce

- Dátum a čas: streda 20.4.2022 13.00 – 14.00 hod.
- Link na webinár: <https://video.nti.sk/live/?21875051SO3T8Q41>

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Dátum a čas: streda 27.4.2022 ,13:00 – 14:00 hod.

Link na webinár: <https://video.nti.sk/live/?219098OH1D6B1550>





ĎAKUJEM ZA POZORNOSŤ
otvorenaveda@cvtisr.sk

<https://otvorenaveda.cvtisr.sk>



ZDROJE:

- <https://osc.universityofcalifornia.edu/2016/09/who-owns-your-data/>
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