

HUB NEWSLETTER



TABLE OF CONTENTS

<i>New Members</i>	<u>2</u>
<i>Groups</i>	<u>3</u>
<i>Tools</i>	<u>3</u>
<i>Funding</i>	<u>4</u>
<i>Courses</i>	<u>4</u>
<i>Calendar</i>	<u>4</u>
<i>Publications</i>	<u>5</u>

Here is the new edition of the newsletter

Enjoy your reading.

You can find previous editions on the [Research website in the dedicated section.](#)

PS : all underlined texts are hyperlinks





Yushi HAN

Yushi arrived for a 6-month internship within the Geno group. She works with Gaël Milot on an R package.

Location : Yersin Building - 2nd floor - office 05



Zakary AZMANI

Zakary joined us for a 6-month internship supervised by Amine Ghozlane and Stevonn Volant for the SHAMAN tool

Location : Yersin Building - 2nd floor - office 05



Raphaël Tackx

Raphaël joined the WINTER group, as OREX IFB member. He works on the ABRomics project with Fabien Mareuil.

Location : Yersin Building - 2nd floor - office 05



Arnaud MENG

Arnaud joined the Hub as a detached member in Metabolomic platform

Location : François Jacob Building - 2nd floor - office 04E



Rania OUZAHROU

Rania joined the Hub as a detached member in Biomics platform

Location : Omics / Veil Building - Ground floor - office 04



Daniele CAPOCEFALO

Daniele joined the Hub as a detached member within Laura Cantini's G5

Location : Yersin Building - 6th floor - office 07



Nathalie LEHMANN

Nathalie joined the SysBio group.

Location : Yersin Building - 2nd floor - office 05



Kevin DA SILVA

Kevin joined the Hub, as a detached member within the Respiratory Infection Virus CNR.

Location : François Jacob Building - 4th floor - office 03D



Juliette BONCHE

Juliette remains at the hub for a work-study program in UX/UI. She will be supervised by Rachel Torchet.

Localisation : Yersin Building - ground floor - office 03

DATA INTEGRATION



A dedicated mailing list has been created. If you are interested, do not hesitate to contact Vincent Guillemot



More information on the dedicated Research page:



<https://research.pasteur.fr/fr/website/data-integration-group/>

DEEP LEARNING



The aim of the group is to build up deep learning skills among the members of the group.

We plan to organize monthly meetings where we will discuss different DL projects, papers, organize hands-on sessions and tutorials.



If you are interested to join us or to stay informed, please contact Anđela Davidović or join the mailing list.



deep-learning-group@pasteur.fr



<https://research.pasteur.fr/en/project/deep-learning-group/>

INDEEP-NET

Deployment of a first beta version of Indeeep-net, dedicated to the use of Indeeep, a tool using deep learning for the prediction of ligandable pockets on the surface of proteins



<https://indeep-net.gpu.pasteur.cloud/>



<https://gitlab.pasteur.fr/hub/indeep-web>



<https://indeep-net.gpu.pasteur.cloud/tutorials>

FINANCEMENTS

PEPR santé numérique ShareFAIR:

Frédéric Lemoine, Thomas Cokelaer, Hervé Ménager.



<https://anr.fr/fr/france-2030/programmes-et-equipements-prioritaires-de-recherche-pepr/santenum-sante-numerique>



ANR JCJC MooreForAll: Renverser la loi d'Eroom :

Construction of a genetic information score to facilitate therapeutic target selection (Hanna Julienne)

COURS PHD



Cours PhD Programme 2023/2024 :

More details available on dedicated research page :



<https://research.pasteur.fr/fr/course/bioinformatics-program-for-phd-students/>



23th October 2023 : Common Core
Institut Pasteur, Paris

REPRODUCIBILITY

New reproducibility meeting after the summer :



28th Sept 1pm-2pm (with Mark Ibberson from Vital-IT Lausanne)



Institut Pasteur - Salle CFJ-01-01A



Frédéric LEMOINE frederic.lemoine@pasteur.fr

X-MAS



In 3 months, the end of the year will be here. To get together beforehand, please complete the following survey:

<https://forms.office.com/e/sSKYeMtLyN>



Nievas F, Revale S, Foresto E, Carezzano ME, Primo E, Alzari P, Martínez M, Ben-Assaya M, Mornico D, Santoro M, Giordano W, Bogino P. **Whole-Genome Sequence of Burkholderia ambifaria Strain Q53, a Potential Plant Growth Promoter Isolated from the Rhizosphere of Peanut.** Microbiol Resour Announc. 2023 May 17; PMID: 37039639; PMCID: PMC10190645.

doi: [10.1128/mra.00021-23](https://doi.org/10.1128/mra.00021-23)

Zhukova, A.; Dunn, D.; Gascuel, O., on behalf of the UK HIV Drug Resistance Database & the Collaborative HIV, Anti-HIV Drug Resistance Network. **Modeling Drug Resistance Emergence and Transmission in HIV-1 in the UK.** Viruses 2023, 15, 1244.

doi: [10.3390/v15061244](https://doi.org/10.3390/v15061244)

Cokelaer, T., Cohen-Boulakia, S., & Lemoine, F. (2023). **Reprohackathons: promoting reproducibility in bioinformatics through training.** Bioinformatics

doi : [10.1093/bioinformatics/btad227](https://doi.org/10.1093/bioinformatics/btad227)

Holtz, A., Baele, G., Bourhy, H., & Zhukova A. **Integrating full and partial genome sequences to decipher the global spread of canine rabies virus.** Nat Commun 14, 4247 (2023).

doi : [10.1038/s41467-023-39847-x](https://doi.org/10.1038/s41467-023-39847-x)

Rolland T, Cliquet F, Anney RJL, Moreau C, Traut N, Mathieu A, Huguet G, Duan J, Warriar V, Portalier S, Dry L, Leblond CS, Douard E, Amsellem F, Malesys S, Maruani A, Toro R, Børglum AD, Grove J, Baron-Cohen S, Packer A, Chung WK, Jacquemont S, Delorme R, Bourgeron T - **Phenotypic effects of genetic variants associated with autism.** Nat Med 2023 Jun; PMID: 37365347 PMCID: PMC10353945

doi : [10.1038/s41591-023-02408-2](https://doi.org/10.1038/s41591-023-02408-2)

María José Lista, Anne-Caroline Jousset, Mingpan Cheng, Violaine Saint-André, Elouan Perrot, Melissa Rodrigues, Carmelo Di Primo, Danielle Gadelle, Elenia Toccafondi, Emmanuel Segeral, Clarisse Berlioz-Torrent, Stéphane Emiliani, Jean-Louis Mergny & Marc Lavigne. **DNA topoisomerase 1 represses HIV-1 promoter activity through its interaction with a guanine quadruplex present in the LTR sequence.**

Retrovirology 2023 May 30;20(1):10.

doi: [10.1186/s12977-023-00625-8](https://doi.org/10.1186/s12977-023-00625-8)

Zhang, J., Torchet, R., & Julienne, H. (2023). **Gender-based disparities and biases in science: an observational study of a virtual conference.** Plos one, 2023 Jun 7

doi : [10.1371/journal.pone.0286811](https://doi.org/10.1371/journal.pone.0286811)

Patel, B., Soundarajan, S., Ménager, H. et al. **Making Biomedical Research Software FAIR: Actionable Step-by-step Guidelines with a User-support Tool.** Sci Data 10, 557 (2023).

doi : [10.1038/s41597-023-02463-x](https://doi.org/10.1038/s41597-023-02463-x)