CURRICULUM VITAE **UPDATE 28/08/2020**

PERSONNEL

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POSITION

2017-… CNRS delegate at the Council of the ESFRI infrastructure INFRAFRONTIER Gmbh
2013-… Director of research, 1st class, senior scientist, CNRS
2011-… Coordinator of PHENOMIN, a large-scale infrastructure for Biotechnology and Health in the Investment for the future, Illkirch, France, www.phenomin.fr
2010-… Member of AVIESAN ITMO expert panel for cellular biology, development and evolution
2010-… Director of the French Mouse clinic, the "Institut Clinique de la Souris", IllKirch, France, http://www.ics-mci.fr/
2010-… Group leader Physiopathology of Aneuploidies and Intellectual Disabilities (AneuPat21), Translational Medicine and Neurogenetics program, Institut de Génétique Biologie Moléculaire et Cellulaire IGBMC, INSERM U964, CNRS UMR7104, University of Strasbourg, Illkirch, France http://www.igbmc.fr/herault/
2007-… Coordinator of the French large scale research infrastructure CELPHEDIA, Illkirch, France, http://www.celphedia.eu/

ACADEMIC APPOINTMENTS

2019-… Member of the Scientific Committee of the international Association for Responsible Research and Innovation in Genome Editing - ARRIGE
2019-…. Member of the preclinical committee of the Trisomy 21 Research Society (T21RS), The Netherlands.
2018-… Elected member of the International Mouse Phenotyping Consortium Executive committee (www.mousephenotype.org)
2018-… Elected member of the Secretariat the International Mammalian Genome Society (www.imgs.org)
2017-… Member of the Administrative Council of the Marine Bio-Resource Centre –France www.embrc-france.fr
2018…. Expert Member of the AFNOR/S96R "Biotechnologies" Committee
2016-… Member of the Faculty of 1000, https://f1000.com/prime/thefaculty/member/499999771097613230
2016-2017 Expert Member of the AFNOR/S96R "Research Platform" Committee
2014-2019 Vice Director Institut de Génétique Biologie Moléculaire et Cellulaire, IGBMC, INSERM U964, CNRS UMR7104, University of Strasbourg, Illkirch, France
2015-2019 Member of the Scientific Board of the Trisomy 21 Research Society (T21RS), Chair of the preclinical model, The Netherlands.
2014-2019 Chair of the scientific council of the "Fondation Jerome Lejeune", Paris, France
2014-2016 Chair and CNRS delegate at the Council of the ESFRI infrastructure INFRAFRONTIER Gmbh
2013-2018 Member of the Scientific Advisory Board of ANEXPLO, the regional centre for mouse phenogenomics, Toulouse, France
2015-2016 Member of the scientific committee of the Primates station, CNRS, UPS846, Le Rousset, France
2014-2015 Member of the Scientific Advisory Board of Cyrcé, IPHC, Strasbourg, France
2013-2016 Member of the Scientific Advisory Board of the National Infrastructure TEFOR, Gif/Yvette, France
2011-2017 Member of the Steering committee of the International Mouse Phenotyping Consortium (IMPC)

2013-2015 Co-chair of the Phenotyping working group at the IMPC (2013-2015 with K. Svenson, Jax, USA)
2010-2014 President of the ethical committee Com'Eth n°17 for IGBMC-ICS (EEA D67-218-5), Illkirch, France
2007-2014 Director Unit UPS44 (TAAM) Transgenesis and Archiving of Animal Model, Orleans, France
http://transgenose.cnrs-orleans.fr/eng/taam/presentation.php
2007-2013Delegate of the French CNRS for building up the ESFRI INFRAFRONTIER.
2004-2012 Director of research, 2nd class, senior scientist, CNRS
2004-2010 Group Leader IEM CNRS Uni Orléans UMR6218 Orleans, France
2001-2011 Scientific Director of the infrastructure INTRAGENE CNRS IBISA
2001-2007 Member of the User committee TAAM, CNRS UPS44
2001-2008 Member of the local ethical committee for animal experimentation Centre Limousin
2001-2003 Deputy Manager FRE2358 Molecular and Experimental Genetics
2007-2010 Group leader IEM UMR6218, CNRS, Uni Orléans, Immunology and Molecular Embryology
2004-2006 Group leader IEM FRE2815, CNRS, Uni Orléans, Immunology and Molecular Embryology
2002-2003 Group leader FRE2358, CNRS, Uni Orléans, Molecular and Experimental Genetics
1999-2004 Research associate 1st class CNRS
1999-2002 ATIPE group leader Developmental biology, CNRS, Orleans, France

EDUCATION :

22/11/2000 Priv. Doc, HDR Habilitation, University of Orléans. France.
5-8/11/2002 Small animal surgery, Marseille
06/06/2000 Animal Experimentation, level 1, GRETA, Orléans, France
1993-1999 Post-doctoral Assistant, Université de Geneve, Pr D. Duboule, Suisse,
13/09/1993 Ph. D. University C. Bernard-Lyon I.
1990-1993 Assistant Moniteur Normalien
1986-1989 Magistère de Biologie-Biochimie, ENS Ulm, Paris, France
1986-1990 Elève professeur, ENS St Cloud-Lyon, France.

HONORS AND AWARDS

1993-1994 ARC post-doctoral Fellowship, Paris, France
1994-1996 EMBO Post-doctoral Fellowship, Heidelberg, Germany
1999 ATIPE group leader Developmental biology, CNRS, France
2010 Prix Jeunes chercheurs FRM ALSACE
2011 Prix de l'excellence scientifique CNRS
2013 Laureat 4eme Prix Sisley-Jerome Lejeune, Paris, France

EDITORIAL AND REVIEW ACTIVITIES

2017-… Member of the Editorial Board of Wiley's Current Protocols in Mouse Biology
2017 Guest Editor PLoS Genetics
2011-… Editor at Plos One
2011-… Member of the Editorial Board at Mammalian Genome
Reviewer for Autism Res. (2016), Biotech J. (2015), BMC genomics (2013), Bull Acad. Vet. (2015), Dev Dynamic (2015), Development (2014), Dis. Mod. Mech.(2014), Elife (2015), Front. Neurosci.(2015), Fund. Cli. Pharmacol.(2012), Genes Brain Beh.(2011,2014,2015), Genomics (2011), Hum. Mol. Genet.(2012), J. Mol. Endo. (2016), Mam. Gen.(2012, 2013, 2014, 2015), Nature Biotech. (2011), Nat Rev. Cancer (2012). Neuropsychopharmacol. (2012), Plos Genet. (2012).
Expert for funding agencies or charities: Wellcome Trust, CIBLE, CNRS, ANR,…

OTHER ACTIVITIES

Member of Society: International Mammalian Genome Society (IMGS), Société Française de Génétique (SFG), American Society of Human Genetics, Société des Neurosciences, Federation of European Societies for Neurosciences, Society for Neurosciences, International Society for Transgenic Technology (ISTT)…
Participants, workpackage leader (**WL**) or Coordinator (**Coord**) in several European funded network: **EC (FP5)** EMMAnet, EMMAwork, Eurocomp, **T21target (WL)**, Eumorphia; **(FP6)** EMMAInf, **Aneuploidy (WL)**, EUcomm, Eumodic; (FP7) INFRAFRONTIER (WL), EMMAservice (WL), EMtrain, Eucommtools, **Gencodys (WL), INFRAcomp (WL),** Agedbrainsysbio, **INFRAFRONTIER I3 (WL)**, **Interreg (2013)** Cardiogen **(Coord); H2020: I-PAD (WL) CanpathPro (WL), GO-DS21 (Coord).**
Members of International initiatives: International Knock-out Mouse Consortium (IKMC), International Mouse Phenotyping Consortium (IMPC), International Mouse Strain Resources (IMSR)

PUBLICATIONS (2015-2020) out of 135 per reviewed publications

Original research work

1. **Marechal D., P. Lopes Pereira, A. Duchon and Y. Hérault,** Dosage of the Abcg1-U2af1 region modifies locomotor and cognitive deficits observed in the Tc1 mouse model of Down syndrome. PLoS One. 2015, 10, e0115302. PMID:25706610
2. **Brault V, A. Duchon,** C. Romestaing, I. Sahun, **S. Pothion, M. Karout,** C. Borel, **D. Dembele**, J.-C. Bizot, **N. Messaddeq**, A.J. Sharp, D. Roussel, S.E. Antonarakis, M. Dierssen and **Y. Hérault**, Opposite Phenotypes of Muscle Strength and Locomotor Function in Mouse Models of Partial Trisomy and Monosomy 21 for the Proximal Hspa13-App Region. PloS Genet. 2015, 11, e1005062. PMID: 25803843
3. N.A. Karp, T.F. Meehan, H. Morgan, J.C. Mason, A. Blake, N. Kurbatova, D. Smedley, J. Jacobsen, R.F. Mott, V. Iyer, P. Matthews, D.G. Melvin, S. Wells, A.M. Flenniken, H. Masuya, S. Wakana, J.K. White, K.C.K. Lloyd, C.L. Reynolds, R. Paylor, D.B. West, K.L. Svenson, E.J. Chesler, M. H. Hrabě de Angelis, G.P. Tocchini-Valentini, **T. Sorg-Guss, Y. Herault,** H. Parkinson, A-M. Mallon, and S.D. Brown. Applying the ARRIVE guidelines to an in vivo database. PLoS Biol. 2015, 13, e1002151. PMID: 25992600
4. **Arbogast T., M. Raveau, C. Chevalier, V. Nalesso, M. Roux,** D. Dembele, **H. Jacobs, O. Wendling, A. Duchon and Y. Herault.** Deletion of the *App-Runx1* region in mice models human partial monosomy 21. Dis Model Mech. 2015, 8, 623-634, PMID: 26035870
5. Hrabe de Angelis* M, Nicholson* G, **Selloum* M**, White* JK, Morgan* H, Ramirez-Solis* R, **Sorg* T**, Wells* S, Fuchs* H, Fray* M, Adams DJ, Adams NC, Adler T, Aguilar-Pimentel A, **Ali-Hadji D**, **Amann G**, **André P,** Atkins S, **Auburtin A, Ayadi A**, Becker J, Becker L, **Bedu E**, Bekeredjian R, **Birling MC**, Blake A, Bottomley J, Bowl MR, **Brault V**, Busch DH, Bussell JN, Calzada-Wack J, Cater H, **Champy MF, Charles P, Chevalier C, C**hiani F, Codner GF, **Combe R,** Cox R, **Dalloneau E, Dierich A,** Di Fenza A, Doe B, **Duchon A,** Eickelberg O, Esapa CT, **Fertak LE,** Feigel T, Emelyanova I, Estabel J, Favor J, Flenniken A, Gambadoro A, Garrett L, Gates H, Gerdin AK, Gkoutos G, Greenaway S, Glasl L, **Goetz P, Da Cruz IG**, Götz A, Graw J, **Guimond A**, Hans W, Hicks G, Hölter SM, Höfler H, Hancock JM, Hoehndorf R, Hough T, Houghton R, Hurt A, Ivandic B, **Jacobs H, Jacquot S**, Jones N, Karp NA, Katus HA, Kitchen S, Klein-Rodewald T, Klingenspor M, Klopstock T, **Lalanne V, Leblanc S**, Lengger C, **le Marchand E**, Ludwig T, **Lux A**, McKerlie C, Maier H, Mandel JL, Marschall S, **Mark M**, Melvin DG, **Meziane H,** Micklich K, **Mittelhauser C, Monassier L, Moulaert D, Muller S,** Naton B, Neff F, Nolan PM, Nutter LM, Ollert M, **Pavlovic G**, Pellegata NS, Peter E, **Petit-Demoulière B**, Pickard A, Podrini C, Potter P, **Pouilly L**, Puk O, Richardson D, **Rousseau S,** Quintanilla-Fend L, Quwailid MM, Racz I, Rathkolb B, **Riet F,** Rossant J, Roux M, Rozman J, Ryder E, Salisbury J, Santos L, Schäble KH, Schiller E, Schrewe A, Schulz H, Steinkamp R, Simon M, Stewart M, Stöger C, Stöger T, Sun M, Sunter D, Teboul L**, Tilly I**, Tocchini-Valentini GP, Tost M, Treise I, **Vasseur L, Velot E**, Vogt-Weisenhorn D, **Wagner C,** Walling A, Wattenhofer-Donze M, Weber B, **Wendling O,** Westerberg H, Willershäuser M, Wolf E, Wolter A, Wood J, Wurst W, Yildirim AÖ, Zeh R, Zimmer A, Zimprich A; EUMODIC Consortium, Holmes* C, Steel* KP, **Herault* Y**, Gailus-Durner* V, Mallon* AM, Brown* SD. Analysis of mammalian gene function through broad-based phenotypic screens across a consortium of mouse clinics. Nat Genet. 2015, 47, 969-978 PMID: 26214591 (*equal contribution)
6. Hussein MA, Shrestha E, Ouimet M, Barrett TJ, Leone S, Moore KJ, **Hérault Y**, Fisher EA, Garabedian MJ. LXR-Mediated ABCA1 Expression and Function Are Modulated by High Glucose and PRMT2. PLoS One. 2015, 10, e0135218. PMID: 26288135
7. **Dubos* A*,** Castells-Nobau* A, **Meziane H*,** Oortveld MAW, Houbaert X, Iacono G, Martin C, **Mittelhaeuser C, Lalanne V**, Kramer JM, Quentin C, Slabbert J, Verstreken P, Sigrist SJ, **Messaddeq N, Birling M-C, Selloum M,** Stunnenberg HG, Humeau Y, Schenck A and **Herault Y.** Conditional depletion of intellectual disability and Parkinsonism candidate gene ATP6AP2 in fly and mouse induces cognitive impairment and neurodegeneration. Hum. Mol. Genet. (2015) 24, 6736-6755 PMID: 26376863
8. Souchet B; Guedj F, Penke-Verdier Z, Daubigney F, **Duchon A, Herault Y**, Bizot J-C, Janel N, Creau N, Delatour B, and JM Delabar, Pharmacological correction of excitation/inhibition imbalance in Down syndrome mouse models. Front Behav Neurosci. (2015), 9, 267. PMID:26539088
9. Delépine C, **Meziane H,** Nectoux J, Opitz M, Smith BA, Saillour Y, Feraud O, Chang Q, Cunningham WE, Dahan M, Duboin A, Billuart P, **Herault Y**, and Bienvenu T, Altered microtubule dynamics and vesicular transport in mouse and human MeCP2-deficient astrocytes Hum. Mol. Genet. (2016), 25, 146-157 PMID: 26604147
10. **Arbogast T,** Ouagazzal A-M, **Chevalier C,** Kopanitsa M, Afinowi N, Migliavacca E, **Birling M-C, Champy M-F,** Reymond A, and **Herault Y**, Reciprocal effects on neurocognitive and metabolic phenotypes in

mouse models of 16p11.2 deletion and duplication syndromes. PLoS Genet. (2016) 12, e1005709. PMID: 26872257

Corrigendum: Letourneau A, Santoni FA, Bonilla X, Sailani MR, Gonzalez D, Kind J, **Chevalier C,** Thurman R, Sandstrom RS, Hibaoui Y, Garieri M, Popadin K, Falconnet E, Gagnebin M, Gehrig C, Vannier A, Guipponi M, Farinelli L, Robyr D, Migliavacca E, Borel C, Deutsch S, Feki A, Stamatoyannopoulos JA, **Herault Y,** van Steensel B, Guigo R, Antonarakis SE. Domains of genome-wide gene expression dysregulation in Down's syndrome. Nature. 2016, 531, 400. doi: 10.1038/nature16135. PMID: 26633627

11. **Combe R,** Mudgett J, **El Fertak L, Champy MF,** Ayme-Dietrich E, **Petit-Demoulière B, Sorg T, Herault Y,** Madwed JB, Monassier L. How Does Circadian Rhythm Impact Salt Sensitivity of Blood Pressure in Mice? A Study in Two Close C57Bl/6 Substrains. PLoS One. (2016) 11, e0153472. PMID: 27088730
12. Garcia-Gonzalez MA, Carette C, Bagattin A, Chiral M, Makinistoglu MP, Garbay S, Prévost G, Madaras C, Hérault Y, Leibovici M, Pontoglio M. A suppressor locus for MODY3-diabetes. Sci Rep. 2016, 6, 33087. doi: 10.1038/srep33087. PMID: 27667715
    Erratum: Garcia-Gonzalez MA, Carette C, Bagattin A, Chiral M, Makinistoglu MP, Garbay S, Prévost G, Madaras C, **Hérault Y,** Leibovici M, Pontoglio M. A suppressor locus for MODY3-diabetes. Sci Rep. 2016 Oct 21;6:35697. doi: 10.1038/srep35697. PMID: 27767025
13. **Meziane H**, Khelfaoui M, Morello N, Hiba B, Calcagno E, Reibel-Foisset S, **Selloum M** , Chelly J, Humeau Y, **Riet** F, Zanni G, **Herault Y**, Bienvenu T, Giustetto M, and P Billuart. Fasudil treatment in adult reverses behavioural changes and brain ventricular enlargement in Oligophrenin-1 mouse model of intellectual disability. Hum Mol Genet. 2016, 25, 2314-2323. PMID: 27146843
14. Codner GF, Lindner L, Caulder A, **Wattenhofer-Donzé M**, Radage A, Mertz A, Eisenmann B, Mianné J, Evans EP, Beechey CV, Fray MD, **Herault Y, Birling M-C, Pavlovic G**, Teboul L. Aneuploidy screening of embryonic stem cell clones by metaphase karyotyping and droplet digital polymerase chain reaction BMC Cell Biol. 2016, 17,30, PMID: 27496052
15. Goguet-Rubio P, Seyran B, Gayte L, Bernex F, Sutter A, Delpech H, Linares LK, Riscal R, Repond C, Rodier G, Kirsh O, Touhami J, Noel J, Vincent C, Pirot N, **Pavlovic G, Herault Y,** Sitbon M, Pellerin L, Sardet C, Lacroix M, Le Cam L. E4F1-mediated control of pyruvate dehydrogenase activity is essential for skin homeostasis. Proc Natl Acad Sci USA 2016, 113, 11004-11009 doi: 10.1073/pnas.1602751113. PMID: 27621431
16. Dickinson ME, Flenniken AM, Ji5 X, Teboul L, Wong MD, White JK, Meehan TF, Weninger WJ, Westerberg H, Adissu H, Baker CN, Bower L , Brown JM, Caddle LB, Chiani F, Clary D, Cleak J, Daly MJ, Denegre JM, Doe B, Edie SM, Fuchs H, Gailus-Durner V, Galli A, Gambadaro A, Gallegos J, Guo S, Horner NR, Hsu C-W, Johnson SJ, Kalaga S, Keith LC, Lanoue L, Lawson TN, Lek M, **Mark M**, Marschall S, Mason J, McElwee ML, Newbigging S, Nutter LMJ, Peterson KA, Ramirez-Solis R, Rowland DJ, Ryder E, Samocha KE, Seavitt JR, **Selloum M,** Szoke-Kovacs Z, Tamura M, Trainor AG, Tudose I, Wakana S, Warren J, **Wendling O**, West DB, Wong L, Yoshiki A, The International Mouse Phenotyping Consortium, MacArthur DG, Tocchini-Valentini GP, Gao X, Flicek P, Justice M, Parkinson HE , Moore M, Wells S, Braun RE, Svenson K, Hrabe de Angelis M, **Herault Y**, Mohun T, Mallon A-M, Henkelman RM, Brown SD, Adams D, Lloyd KCK, McKerlie C, Beaudet AL, Bucan M and Murray SA High-throughput discovery of novel developmental phenotypes, Nature 2016, 537, 508–514. doi: 10.1038/nature19356 PMID: 27626380
17. Yang X, Mudgett J, **Bou-About G, Champy M-F, Jacobs H, Monassier L, Pavlovic G, Sorg T, Herault Y Petit-Demouliere B**, Lu K, Feng W, Wang H, Ma L-J, Askew R, Erion MD Kelley DE, Myers RW, Li C qnd Guan H-P. Physiological Expression of AMPK&[gamma]2RG Mutation Causes Wolff-Parkinson-White Syndrome and Induces Kidney Injury in Mice. J. Biol Chem (2016) 291, 23428-23439, PMID: 27621313
18. Barau J, Teissandier A, Zamudio N, Roy S, **Nalesso V, Hérault Y,** Guillou F and Bourc'his D, The novel DNA methyltransferase DNMT3C protects male germ cells from transposon activity. Science, 2016, 354, 909-912, DOI: 10.1126/science.aah5143, PMID: 27856912.
19. Haziza S., Mohan N., Loe-Mie Y., Lepagnol Bestel A.-M., Massou S., Adam M.-P., Loc Le X., Viard J., Plancon C., Daudin R., **Koebel P.,** Dorard E., Rose C., Hsieh F.-J., Wu C.-C., Potier B., **Hérault Y.,** Sala C., Corvin A., Allinquant B., Chang H.-C., Treussart F., and M. Simonneau. Fluorescent nanodiamond tracking reveals intraneuronal transport abnormalities induced by brain disease-related genetic risk factors. Nat Nanotechnol. 2017, 12, 322-328 doi: 10.1038/nnano.2016.260. PMID: 27893730

20. **Birling M-C, Schaeffer L, André P, Lindner L, Maréchal D, Ayadi A, Sorg T, Pavlovic G,** and **Hérault Y**, Efficient and rapid generation of large genomic variants in rat and mice using CRISMERE, Sci. Rep., 2017, 7, 43331, doi:10;1038/srep43331
21. Ung D♯, Iacono G♯, **Méziane H♯**, Blanchard E, Papon M-A, Selten M, van Rhijn J-R, Montjean R, Rucci J, Martin S, Fleet A, **Birling M-C**, Marouillat S, Roepman R, **Selloum M**, Lux A, Thépault R-A, Hamel P, Mittal K, Vincent JB, Dorseuil O, Stunnenberg HG, Billuart P, Nadif Kasri N, **Hérault Y***, Laumonnier F* Ptchd1 deficiency induces excitatory synaptic and cognitive dysfunctions in mouse, Mol Psychiatry. 2017 00, 1-12. doi: 10.1038/mp.2017.39, PMID: 28416808 ♯ Should be considered as first co-authors, * Should be considered as last co-authors
22. Daubeuf F*, **Becker J*,** Aguilar-Pimentel JA, **Ebel C,** Hrabé de Angelis M, **Hérault Y** and Frossard N, A Fast, Easy, and Customizable Eight-Color Flow Cytometric Method for Analysis of the Cellular Content of Bronchoalveolar Lavage Fluid in the Mouse. Curr Protoc Mouse Biol. 2017, 7, 88-99, doi: 10.1002/cpmo.26, PMID: 28628216
23. Karp NA, Mason J, Beaudet AL, Benjamini Y, Bower L, Braun RE, Brown SDM, Chesler EJ, Dickinson ME, Flenniken AM, Fuchs H, Hrabe de Angelis M, Gao X, Guo S, Greenaway S, Heller R, **Herault Y,** Justice MJ, Kurbatova N, Lelliott CJ, Lloyd KCK, Mallon AM, Mank JE, Masuya H, McKerlie C, Meehan TF, Mott RF, Murray SA, Parkinson H, Ramirez-Solis R, Santos L, Seavitt JR, Smedley D, **Sorg T**, Speak AO, Steel KP, Svenson KL; International Mouse Phenotyping Consortium, Wakana S, West D, Wells S, Westerberg H, Yaacoby S, White JK. Prevalence of sexual dimorphism in mammalian phenotypic traits. Nat Commun. 2017, 8, 15475. doi: 10.1038/ncomms15475, PMID: 28650954
24. Meehan TF, Conte N, West DB, Jacobsen JO, Mason J, Warren J, Chen CK, Tudose I, Relac M, Matthews P, Karp N, Santos L, Fiegel T, Ring N, Westerberg H, Greenaway S, Sneddon D, Morgan H, Codner GF, Stewart ME, Brown J, Horner N; International Mouse Phenotyping Consortium, Haendel M, Washington N, Mungall CJ, Reynolds CL, Gallegos J, Gailus-Durner V, **Sorg T, Pavlovic G,** Bower LR, Moore M, Morse I, Gao X, Tocchini-Valentini GP, Obata Y, Cho SY, Seong JK, Seavitt J, Beaudet AL, Dickinson ME, **Herault Y,** Wurst W, de Angelis MH, Lloyd KCK, Flenniken AM, Nutter LMJ, Newbigging S, McKerlie C, Justice MJ, Murray SA, Svenson KL, Braun RE, White JK, Bradley A, Flicek P, Wells S, Skarnes WC, Adams DJ, Parkinson H, Mallon AM, Brown SDM, Smedley D. A Comprehensive Resource for Human Disease Models: The International Mouse Phenotyping Consortium. **Nat Genet**. 2017, 49, 1231-1238, doi: 10.1038/ng.3901, PMID: 28650483
25. **Arbogast T.,** Iacono G, **Chevalier C**, Afinowi NO, Houbaert X, van Eede MC, Laliberte C, **Birling M-C**, Linda K, **Meziane H, Selloum M, Sorg T**, Nadif Kasri N, Koolen D, Stunnenberg HG, Henkelman RM, Kopanitsa M, Humeau Y, Bert BA, and **Herault Y**. Models of 17q21.31 rearrangements highlight the importance of Kansl1 for cognition, synaptic transmission and neurogenesis. PLoS Genet. 2017 13, e1006886. doi: 10.1371/journal.pgen.1006886. eCollection 2017 Jul. PMID: 28704368
26. **Wendling O, Champy MF,** Jaubert S, **Pavlovic G, Dubos A, Lindner L, Jacobs H,** Mark M, **Combe R**, **Da Cruz IG,** Luche H, Mudgett JS, Rosahl T, **Sorg T,** Malissen M, **Reilly PT, Hérault Y.** Atp6ap2 ablation in adult mice impairs viability through multiple organ deficiencies. Sci Rep. 2017 7, 9618. doi: 10.1038/s41598-017-08845-7. PMID: 28851918
27. Bowl MR, Simon MM, Ingham NJ, Greenaway S, Santos L, Cater H, Taylor S, Mason J, Kurbatova N, Pearson S, Bower LR, Clary DA, **Meziane H, Reilly P,** Minowa O, Kelsey L; International Mouse Phenotyping Consortium, Tocchini-Valentini GP, Gao X, Bradley A, Skarnes WC, Moore M, Beaudet AL, Justice MJ, Seavitt J, Dickinson ME, Wurst W, de Angelis MH, **Herault Y**, Wakana S, Nutter LMJ, Flenniken AM, McKerlie C, Murray SA, Svenson KL, Braun RE, West DB, Lloyd KCK, Adams DJ, White J, Karp N, Flicek P, Smedley D, Meehan TF, Parkinson HE, Teboul LM, Wells S, Steel KP, Mallon AM, Brown SDM. A large scale hearing loss screen reveals an extensive unexplored genetic landscape for auditory dysfunction. Nat Commun. 2017, 8, 886. doi: 10.1038/s41467-017-00595-4. PMID: 29026089
28. Kannan M, Bayam E, Wagner C, Rinaldi B, Kretz PF, Tilly P, Roos M, McGillewie L, Bär S, Minocha S, Chevalier C, Po C; Sanger Mouse Genetics Project, Chelly J, Mandel JL, Borgatti R, Piton A, Kinnear C, Loos B, Adams DJ, **Hérault Y**, Collins SC, Friant S, Godin JD, Yalcin B. WD40-repeat 47, a microtubule-associated protein, is essential for brain development and autophagy. PNAS. U S A. 2017, 114, E9308-E9317. doi: 10.1073/pnas.1713625114. PMID: 29078390
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