

Unit name: INSTITUT JACQUES MONOD UMR 7592
Director's name (current contract): Giuseppe BALDACCI
Director's name (next contract):

E1 – Juliette AZIMZADEH

Peer reviewed reviews

- E1-1 Basquin C. and Azimzadeh J. (2016). Basal bodies across eukaryotes series: Basal bodies in the freshwater planarian *Schmidtea mediterranea*. **Cilia**.
- E1-2 Azimzadeh, J. (2014). Exploring the evolutionary history of centrosomes. **Philos. Trans. R. Soc. Lond. B Biol. Sci.** 369(1650).

Other publications

- E1-3 Meunier, A. and Azimzadeh, J. (2016). Multiciliated cells in Animals. **Cold Spring Harb Perspect Biol**, 8:a028233.
- E1-4 Basquin, C., Orfila, A.M. and Azimzadeh, J. (2015). The planarian *Schmidtea mediterranea* as a model for studying motile cilia and multiciliated cells. **Methods Cell Biol.** 127:243-62.

E2 – Guillaume BALAVOINE

Peer reviewed publications

- E2-1 Aubusson-Fleury A., Balavoine G., Lemullois M., Bouhouche K., Beisson J., Koll F. (2017) Centrin diversity and basal body patterning across evolution: new insights from *Paramecium*. **Biol Open**. pii: bio.024273.
- E2-2 Gazave E., Lemaitre Q., Balavoine G. (2017) The Notch pathway in the annelid *Platynereis*: Insights into chaetogenesis and neurogenesis processes. **Open Biology**, 7(2). pii: 160242.
- E2-3 Starunov V., Dray N., Belikova E., Kerner P., Vervoort M., Balavoine G. (2015) A metameric origin for the annelid pygidium? **BMC Evol Biol.** 15:25.
- E2-4 Gazave E., Guillou A., Balavoine G. (2014) History of a prolific family: the Hes/Hey-related genes of the annelid *Platynereis*. **Evodevo.** 5:29.
- E2-5 Gazave E., Béhague J., Laplane L., Guillou A., Préau L., Demilly A., Balavoine G., Vervoort M. (2013) Posterior elongation in the annelid *Platynereis dumerilii* involves stem cells molecularly related to primordial germ cells. **Dev Biol.** 382:246-67.
- E2-6 Hui JH., McDougall C., Monteiro AS., Holland PW., Arendt D., Balavoine G. & Ferrier DE. (2012) Extensive chordate and annelid macrosynteny reveals ancestral homeobox gene organisation. **Mol Biol Evol.** 29:157–165.

Peer reviewed reviews

- E2-7 Balavoine G. (2014) Segment formation in Annelids: patterns, processes and evolution. **Int J Dev Biol.** 58:469-483.

Other publications

- E2-8 Balavoine, G. (2014) Evolutionary Developmental Biology and Its Contribution to a New Synthetic Theory. in Handbook of Evolutionary Thinking in the Sciences. Eds T. Heams, P. Hunemann, G. Lecointre and M. Silberstein. Springer, Dordrecht, pp 443-470.

E3 – Giuseppe BALDACCI

Peer reviewed publications

- E3-1 Hadjadj D*, Denecker T*, Maric C., Fauchereau F., Baldacci G., Cadoret J-C. Automation of the replication timing protocol and analyses. 2017 (Submitted). * co first authors

- E3-2 **Hadjadj D, Kim SJ, Denecker D, Ben Driss L, Cadoret JC, Maric C, Baldacci G*, Fauchereau F***. A hypothesis-driven approach identifies CDK4 and CDK6 inhibitors as candidate drugs for treatments of adrenocortical carcinomas. 2017, *acceptable for publication in Oncotarget, pending minor revision*
- E3-3 J. Brustel, N. Kirstein, F. Izard, C. Grimaud, P. Prorok, C. Cayrou, G. Schotta, A. A.F. Abdelsamie, J. Déjardin, M. Mechali, **G. Baldacci**, C. Sardet, **J.C. Cadoret**, A. Schepers & E. Julien. Histone H4K20 trimethylation at late-firing origins ensures timely heterochromatin replication. 2017, EMBO journal, in press.
- E3-4 Pagan C, Goubran-Botros H, Delorme R, Benabou M, Lemièrre N, Murray K, Amsellem F, Callebort J, Chaste P, Jamain S, **Fauchereau F**, Huguët G, Maronde E, Leboyer M, Launay JM, Bourgeron T. Disruption of melatonin synthesis is associated with impaired 14-3-3 and miR-451 levels in patients with autism spectrum disorders. *Scientific Reports* 2017, *accepted for publication*.
- E3-5 Hatem E, Azzi S, El Banna N, He T, Haneman-Masurel A, Masson V, Dingli F, Loew D, Leger T, Garcia C, Camadro JM, **Baldacci G**, Eid P, Huang ME. Auranofin/vitamin C drug combination efficiently kills cancer cells with low PTGR1 expression through hydrogen peroxide generation. 2017, *submitted for publication*.
- E3-6 **Hadjadj D, Denecker T, Maric C, Fauchereau F, Baldacci G, Cadoret JC**. "Characterization of the replication timing program of 6 human model cell lines." *Genomic Data*. 2016 Jul 15;9:113–7. doi: 10.1016/j.gdata.2016.07.003.
- E3-7 **Fauchereau F**, Shalev S, Chervinsky E, Beck-Fruchter R, Legois B, Fellous M, Caburet S, Veitia RA. A non-sense MCM9 mutation in a familial case of primary ovarian insufficiency. *Clin Genet*. 2016 May;89(5):603-7. doi: 10.1111/cge.12736.
- E3-8 Schaap P, Barrantes I, Minx P, Anderson RW, Bénard M, Biggar KK, Buchler N, Bundschuh R, Chen X, Fronick C, Fulton L, Golderer G, Jahn N, Knoop V, Landweber L, **Maric C**, Miller D, Noegel A, Peace R, Pierron G, Sasaki N, Sasaki T, Schallenbarg–Rüdinger M, Schleicher M, Singh R, Spaller T, Storey KB, Suzuki T, Tomlinson C, Tyson JJ, Warren W, Werner ER, Werner–Felmayer G, Wilson RK, Winckler T, Gott J, Glöckner G, Marwan W. (2015). "The Physarum polycephalum genome reveals extensive use of prokaryotic two-component and metazoan-type tyrosine kinase signaling." *Genome Biol Evol*. 2015 Nov 27;8(1):109–25. doi: 10.1093/gbe/evv237.
- E3-9 Pinel P, Lalanne C, Bourgeron T, **Fauchereau F**, Poupon C, Artiges E, Le Bihan D, Dehaene-Lambertz G, Dehaene S. Genetic and Environmental Influences on the Visual Word Form and Fusiform Face Areas. *Cereb Cortex*. 2015 Sep;25(9):2478-93.
- E3-10 Goaster JL, Bourée P, Ifergan C, Tangy F, Olivier R, **Haenni AL**. Herpes Viral Origin of the Parsonage-Turner Syndrome: Highlighting of Serological Immune Anti-Herpes Deficiency Cured by Anti-Herpes Therapy. *Case Rep Neurol*. 2015 May 13;7(2):110-4. doi: 10.1159/000381945. eCollection 2015 May 13.
- E3-11 **Baldacci G**, Hoffmann JS, **Cadoret JC**. Impact of the DNA polymerase Theta on the DNA replication program. *Genom Data*. 2014 Dec 5;3:90-3. doi:10.1016/j.gdata.2014.11.014.
- E3-12 **Maric C**, Bénard M. Replication forks reverse at high frequency upon replication stress in Physarum polycephalum. *Chromosoma*. 2014 Dec;123(6):577–85. doi: 10.1007/s00412-014-0471-z.
- E3-13 Fernandez-Vidal A*, Guitton-Sert L*, **Cadoret JC***, Drac M, Schwob E, **Baldacci G**, Cazaux C, Hoffmann JS. A role for DNA polymerase θ in the timing of DNA replication. *Nat Commun*. 2014 Jul 3;5:4285. doi: 10.1038/ncomms5285. * co first authors
- E3-14 Picard F, **Cadoret JC**, Audit B, Arneodo A, Alberti A, Battail C, Duret L, Prioleau MN. The spatiotemporal program of DNA replication is associated with specific combinations of chromatin marks in human cells. *PLoS Genet*. 2014 May 1;10(5):e1004282. doi: 10.1371/journal.pgen.1004282.
- E3-15 Becker J, Czamara D, Scerri TS, Ramus F, Csépe V, Talcott JB, Stein J, Morris A, Ludwig KU, Hoffmann P, Honbolygó F, Tóth D, **Fauchereau F**, Bogliotti C, Iannuzzi S, Chaix Y, Valdois S, Billard C, George F, Soares-Boucaud I, Gérard CL, van der Mark S, Schulz E, Vaessen A, Maurer U, Lohvansuu K, Lyytinen H, Zucchelli M, Brandeis D, Blomert L, Leppänen PH, Bruder J, Monaco AP, Müller-Myhsok B, Kere J, Landerl K, Nöthen MM, Schulte-Körne G, Paracchini S, Peyrard-Janvid M, Schumacher J. Genetic analysis of dyslexia candidate genes in the European cross-linguistic NeuroDys cohort. *Eur J Hum Genet*. 2014 May;22(5):675-80. doi:10.1038/ejhg.2013.199.
- E3-16 Pizon V, Rybina S, Gerbal F, Delort F, Vicart P, **Baldacci G**, Karsenti E. MURF2B, a novel LC3-binding protein, participates with MURF2A in the switch between autophagy and ubiquitin proteasome system during differentiation of C2C12 muscle cells. *PLoS One*. 2013 Oct 4;8(10):e76140. doi:10.1371/journal.pone.0076140.
- E3-17 Fontebasso AM, Schwartzentruber J, Khuong-Quang DA, Liu XY, Sturm D, Korshunov A, Jones DT, Witt H, Kool M, Albrecht S, Fleming A, **Hadjadj D**, Busche S, Lepage P, Montpetit A, Staffa A, Gerges N, Zakrzewska M, Zakrzewski K, Liberski PP, Hauser P, Garami M, Klekner A, Bognar L, Zadeh G, Faury D, Pfister SM, Jabado N, Majewski J. Mutations in SETD2 and genes affecting histone H3K36

- methylation target hemispheric high-grade gliomas. *Acta Neuropathol.* 2013 May;125(5):659-69. doi: 10.1007/s00401-013-1095-8.
- E3-18 Liu XY, Gerges N, Korshunov A, Sabha N, Khuong-Quang DA, Fontebasso AM, Fleming A, **Hadjadj D**, Schwartzentruber J, Majewski J, Dong Z, Siegel P, Albrecht S, Croul S, Jones DT, Kool M, Tonjes M, Reifenberger G, Faury D, Zadeh G, Pfister S, Jabado N. Frequent ATRX mutations and loss of expression in adult diffuse astrocytic tumors carrying IDH1/IDH2 and TP53 mutations. *Acta Neuropathol.* 2012 Nov;124(5):615-25. doi: 10.1007/s00401-012-1031-3.
- E3-19 Soler N, Craescu CT, Gallay J, Frapart YM, Mansuy D, Raynal B, **Baldacci G**, Pastore A, Huang ME, Vernis L. A S-adenosylmethionine methyltransferase-like domain within the essential, Fe-S-containing yeast protein Dre2. *FEBS J.* 2012 Jun;279(12):2108-19. doi: 10.1111/j.1742-4658.2012.08597.x.
- E3-20 Hassan-Zadeh V, Chilaka S, **Cadore JC**, Ma MK, Boggetto N, West AG, Prioleau MN. USF binding sequences from the HS4 insulator element impose early replication timing on a vertebrate replicator. *PLoS Biol.* 2012;10(3):e1001277. Doi: 10.1371/journal.pbio.1001277.
- E3-21 Leblond CS, Heinrich J, Delorme R, Proepper C, Betancur C, Huguet G, Konyukh M, Chaste P, Ey E, Rastam M, Anckarsäter H, Nygren G, Gillberg IC, Melke J, Toro R, Regnault B, **Fauchereau F**, Mercati O, Lemièrre N, Skuse D, Poot M, Holt R, Monaco AP, Järvelä I, Kantojärvi K, Vanhala R, Curran S, Collier DA, Bolton P, Chiocchetti A, Klauck SM, Poustka F, Freitag CM, Waltes R, Kopp M, Duketis E, Bacchelli E, Minopoli F, Ruta L, Battaglia A, Mazzone L, Maestrini E, Sequeira AF, Oliveira B, Vicente A, Oliveira G, Pinto D, Scherer SW, Zelenika D, Delepine M, Lathrop M, Bonneau D, Guinchat V, Devillard F, Assouline B, Mouren MC, Leboyer M, Gillberg C, Boeckers TM, Bourgeron T. Genetic and functional analyses of SHANK2 mutations suggest a multiple hit model of autism spectrum disorders. *PLoS Genet.* 2012 Feb;8(2):e1002521. doi: 10.1371/journal.pgen.1002521.
- E3-22 Pinel P, **Fauchereau F**, Moreno A, Barbot A, Lathrop M, Zelenika D, Le Bihan D, Poline JB, Bourgeron T, Dehaene S. Genetic variants of FOXP2 and KIAA0319/TTRAP/THEM2 locus are associated with altered brain activation in distinct language-related regions. *J Neurosci.* 2012 Jan 18;32(3):817-25. doi: 10.1523/JNEUROSCI.5996-10.2012.

Peer reviewed reviews

- E3-23 Gómez-Arreaza A, **Haenni AL**, Dunia I, Avilán L. Viruses of parasites as actors in the parasite-host relationship: A "ménage à trois". *Acta Trop.* 2017 Feb;166:126-132. doi: 10.1016/j.actatropica.2016.11.028. Epub 2016 Nov 19.
- E3-24 Patiño C, **Haenni AL**, Urcuqui-Inchima S. NF90 isoforms, a new family of cellular proteins involved in viral replication? *Biochimie.* 2015 Jan;108:20-4. doi: 10.1016/j.biochi.2014.10.022. Epub 2014 Nov 4.

Other publications

- E3-25 **Les Big Data à découvert, 2017, CNRS Editions Paris.**
- E3-26 Mokrane Bouzeghoub, Rémy Mosseri, coordinators.
- E3-27 S Abiteboul, **G Baldacci**, P Besse, O Cappé, A Cappy, C Jeandel, D Joly, B Jouve, S Laugier, Y Maday, C Nédellec, J-N Patillon, M-C Rousset, H Touzet. Editors.
- E3-28 **Baldacci G**, Mosseri R: Introduction to "De l'infiniment petit à l'infiniment grand."

Book chapters

- E3-29 **Biology for osteopathy, 2017, De Boeck editions, Paris**
- E3-30 **Jean-Charles Cadoret**: two chapters concerning respectively Molecular Biology and Cellular Biology
- E3-31 **Fabien Fauchereau**: one chapter concerning Genetics

E4 – Nicolas BORGHI

Peer reviewed publications

- E4-1 "Complementary molecular cues ensure a robust microtubule-dependent nuclear positioning in the *Drosophila* oocyte", *Nat. Comm.* In press. Tissot N., Lepesant J-A., Bernard F., Legent K., Bosveld F., Martin C., Orestis F., Bellaïche Y., Coppey-Moisan M., Guichet A.
- E4-2 "Coordination between Intra- and Extracellular Forces Regulates Focal Adhesion Dynamics", *Nano Letters* 17 (2017) 399-406. Sarangi BR, Gupta M, Doss BL, Tissot N., Lam F, Mège RM, Borghi N., Ladoux B.
- E4-3 "Vinculin head-tail interaction defines multiple early mechanisms for stem cell rigidity sensing", *Integrative Biology* 8 (2016) 693-703. Z. Liu, P. Bun, N. Audugé, M. Coppey-Moisan, N. Borghi.
- E4-4 "A high-throughput direct fluorescence resonance energy transfer-based assay for analyzing apoptotic proteases using flow cytometry and fluorescence lifetime measurements", *Anal Biochem.* 2015; 491:10-7. Suzuki M, Sakata I, Sakai T, Tomioka H, Nishigaki K, Tramier M, Coppey-Moisan M.

- E4-5 "Intranuclear dynamics of the Nup107-160 complex." *Mol Biol Cell*. 2015; 26:2343-56. Morchoisne-Bolhy S, Geoffroy MC, Bouhleb IB, Alves A, Audugé N, Baudin X, Van Bortle K, Powers MA, Doye V.
- E4-6 "Mechanical checkpoint for persistent cell polarization in adhesion-naive fibroblasts." *Biophys J*. 107 (2014) 324-35. Bun P, Liu J, Turlier H, Liu Z, Uriot K, Joanny JF, Coppey-Moisan M.
- E4-7 "Golgi sorting regulates organization and activity of GPI proteins at apical membranes." *Nat Chem Biol*. 10 (2014) 350-7. Paladino S, Lebreton S, Tivodar S, Formiggini F, Ossato G, Gratton E, Tramier M, Coppey-Moisan M, Zurzolo C.

Peer reviewed reviews

- E4-8 "FRET-based Molecular Tension Microscopy", *Methods*. 94 (2016) 33-42. C. Gayraud, N. Borghi.
- E4-9 "Time-domain fluorescence lifetime imaging microscopy: a quantitative method to follow transient protein-protein interactions in living cells" *Cold Spring Harb Protoc*. 2015 ; 6:508-21. Padilla-Parra S, Audugé N, Tramier M, Coppey-Moisan M.
- E4-10 "Visualizing Microtubule Networks During Drosophila Oogenesis Using Fixed and Live Imaging." *Methods Mol Biol*. 2015; 1328:99-112. Legent K, Tissot N, Guichet A.

Other publications

- E4-11 "Experimental approaches in mechanotransduction: From molecules to pathology." *Methods*. 94 (2016) 1-3. Borghi N, Farge E, Lavelle C.
- E4-12 "Measuring forces and stresses in situ in living tissues", bioRxiv doi: <http://dx.doi.org/10.1101/016394>. C. Aegerter, W. Ahmed, A. Baldit, A. Barakat, L. Beauzamy, N. Borghi, F. Brochard-Wyart, G. W. Brodland, O. Campas, C. Campillo, R. Clément, S. Cox, H. Delanoë-Ayari, J. Dumortier, C. Gayraud, F. Graner, K. Guevorkian, B. Guirao, A. Hallou, T. Hiiragi, S. Hilgenfeldt, S. Ishihara, E. Kolb, Y. Kondo, P. Kurowski, F. Lanfranconi, L. Le Goff, P.-F. Lenne, J.-L. Maître, P. Marcq, V. Nier, E. Raspaud, U. Schulze, K. Sugimura, S. Tlili, H. Turlier.

E5 – Jean-Michel CAMADRO

Peer reviewed publications

1) Highlights

- E5-1 Mutation in the Fe-S scaffold protein Isu bypasses frataxin deletion. Yoon H, Golla R, **Lesuisse E**, Pain J, Donald JE, Lyver ER, Pain D, Dancis A. *Biochem J*. **2012** Jan 1;441(1):473-80. doi: 10.1042/BJ20111637. PMID: 21936771
- E5-2 Methylene blue rescues heart defects in a Drosophila model of Friedreich's ataxia. Tricoire H, Palandri A, **Bourdais A**, **Camadro JM**, Monnier V. *Hum Mol Genet*. **2014** Feb 15;23(4):968-79. doi: 10.1093/hmg/ddt493. Epub **2013** Oct 8. PMID: 24105471
- E5-3 A Yeast/Drosophila Screen to Identify New Compounds Overcoming Frataxin Deficiency. **Seguin A**, Monnier V, Palandri A, Bihel F, Rera M, Schmitt M, **Camadro JM***, Tricoire H, **Lesuisse E**. (* corresponding author). *Oxid Med Cell Longev*. **2015**;2015:565140. doi: 10.1155/2015/565140. Epub **2015** Oct 11. PMID: 26523199
- E5-4 Changes in glutathione-dependent redox status and mitochondrial energetic strategies are part of the adaptive response during the filamentation process in *Candida albicans*. **Guedouari H**, **Gergondey R**, **Bourdais A**, **Vanparis O**, Bulteau AL, **Camadro JM**, **Auchère F**. *Biochim Biophys Acta*. 2014 Sep;1842(9):1855-69. doi: 10.1016/j.bbadis.2014.07.006. Epub 2014 Jul 10. PMID: 25018088
- E5-5 The adaptive metabolic response involves specific protein glutathionylation during the filamentation process in the pathogen *Candida albicans*. **Gergondey R**, Garcia C, **Serre V**, **Camadro JM**, **Auchère F**. *Biochim Biophys Acta*. **2016** Jul;1862(7):1309-23. doi: 10.1016/j.bbadis.2016.04.004. Epub 2016 Apr 13. PMID: 27083931
- E5-6 Modulation of the specific glutathionylation of mitochondrial proteins in the yeast *Saccharomyces cerevisiae* under basal and stress conditions. **Gergondey R**, Garcia C, Marchand CH, Lemaire SD, **Camadro JM**, **Auchère F**. *Biochem J*. **2017** Mar 15;474(7):1175-1193. doi: 10.1042/BCJ20160927. PMID: 28167699
- E5-7 The metacaspase (Mca1p) has a dual role in farnesol-induced apoptosis in *Candida albicans*. Léger T, Garcia C, Ounissi M, **Lelandais G**, **Camadro JM**. *Mol Cell Proteomics*. **2015** Jan;14(1):93-108. doi: 10.1074/mcp.M114.041210. Epub **2014** Oct 27. PMID: 25348831

- E5-8 A comparative study of iron uptake mechanisms in marine microalgae: iron binding at the cell surface is a critical step. Sutak R, Botebol H, **Blaiseau PL**, Léger T, Bouget FY, **Camadro JM**, **Lesuisse E**. *Plant Physiol.* **2012** Dec;160(4):2271-84. doi: 10.1104/pp.112.204156. Epub **2012** Oct 2. PMID: 23033141
- E5-9 A novel protein, ubiquitous in marine phytoplankton, concentrates iron at the cell surface and facilitates uptake. Morrissey J, Sutak R, Paz-Yepes J, Tanaka A, Moustafa A, Veluchamy A, Thomas Y, Botebol H, Bouget FY, McQuaid JB, Tirichine L, Allen AE, **Lesuisse E**, Bowler C. *Curr Biol.* **2015** Feb 2;25(3):364-71. doi: 10.1016/j.cub.2014.12.004. Epub **2014** Dec 31. PMID: 25557662
- E5-10 Central role for ferritin in the day/night regulation of iron homeostasis in marine phytoplankton. Botebol H*, **Lesuisse E***, Šuták R, Six C, Lozano JC, Schatt P, Vergé V, Kirilovsky A, Morrissey J, Léger T, **Camadro JM**, Gueneugues A, Bowler C, Blain S, Bouget FY. (* co-first authors) *Proc Natl Acad Sci U S A.* **2015** Nov 24;112(47):14652-7. doi: 10.1073/pnas.1506074112. Epub **2015** Nov 9. PMID: 26553998
- E5-11 *Ostreococcus tauri* is a new model green alga for studying iron metabolism in eukaryotic phytoplankton. **Lelandais G**, Scheiber I, Paz-Yepes J, Lozano JC, Botebol H, Pilátová J, Žárský V, Léger T, **Blaiseau PL**, Bowler C, Bouget FY, **Camadro JM**, Sutak R, **Lesuisse E**. *BMC Genomics.* **2016** May 3;17:319. doi: 10.1186/s12864-016-2666-6. PMID: 27142620
- E5-12 Imaging mass spectrometry reveals modified forms of histone H4 as new biomarkers of microvascular invasion in hepatocellular carcinomas. Poté N, Alexandrov T, Le Faouder J, Laouirem S, Léger T, Mebarki M, Belghiti J, **Camadro JM**, Bedossa P, Paradis V. *Hepatology.* **2013** Sep;58(3):983-94. doi: 10.1002/hep.26433. Epub **2013** Jul 30. PMID: 23553687
- E5-13 Progression from cirrhosis to cancer is associated with early ubiquitin post-translational modifications: identification of new biomarkers of cirrhosis at risk of malignancy. Laouirem S, Le Faouder J, Alexandrov T, Mestivier D, Léger T, Baudin X, Mebarki M, Paradis V, **Camadro JM***, Bedossa P*. (* co-senior authors) *J Pathol.* **2014** Dec;234(4):452-63. doi: 10.1002/path.4398. Epub **2014** Sep 12. PMID: 24979321
- E5-14 Proteomics profiling of urine reveals specific titin fragments as biomarkers of Duchenne muscular dystrophy. Rouillon J, Zocevic A, Leger T, Garcia C, **Camadro JM**, Udd B, Wong B, Servais L, Voit T, Svinartchouk F. *Neuromuscul Disord.* **2014** Jul;24(7):563-73. doi: 10.1016/j.nmd.2014.03.012. Epub **2014** Apr 13. PMID: 24813925
- E5-15 A mitochondrial origin for frontotemporal dementia and amyotrophic lateral sclerosis through CHCHD10 involvement. Bannwarth S, Ait-El-Mkadem S, Chausseuot A, Genin EC, Lacas-Gervais S, Fragaki K, Berg-Alonso L, Kageyama Y, **Serre V**, Moore DG, Verschueren A, Rouzier C, Le Ber I, Augé G, Cochaud C, Lespinasse F, N'Guyen K, de Septenville A, Brice A, Yu-Wai-Man P, Sesaki H, Pouget J, Paquis-Flucklinger V. *Brain.* **2014** Aug;137(Pt 8):2329-45. doi: 10.1093/brain/awu138. Epub **2014** Jun 16. PMID: 24934289
- E5-16 Serum proteomic profiling reveals fragments of MYOM3 as potential biomarkers for monitoring the outcome of therapeutic interventions in muscular dystrophies. Rouillon J, Poupot J, Zocevic A, Amor F, Léger T, Garcia C, **Camadro JM**, Wong B, Pinilla R, Cosette J, Coenen-Stass AM, McClorey G, Roberts TC, Wood MJ, Servais L, Udd B, Voit T, Richard I, Svinartchouk F. *Hum Mol Genet.* **2015** Sep 1;24(17):4916-32. doi: 10.1093/hmg/ddv214. Epub **2015** Jun 9. PMID: 26060189

Other peer reviewed publications

- Mechanisms of iron- and copper-frataxin interactions Han THL, **Camadro, JM**, Santos R, **Lesuisse E**, El Hage Chahine, JM, Ha-Duong NT *Metallomics* **2017**, MT-ART-02-2017-000031.R1, in press
- E5-17 Dysfunction of mitochondrial Lon protease and identification of oxidized protein in mouse brain following exposure to MPTP: Implications for Parkinson disease. Bulteau AL, Mena NP, **Auchère F**, Lee I, Prigent A, Lobsiger CS, **Camadro JM**, Hirsch EC. *Free Radic Biol Med.* **2017** Mar 30;108:236-246. doi: 10.1016/j.freeradbiomed.2017.03.036. PMID: 28365360
- E5-18 Acclimation of a low iron adapted *Ostreococcus* strain to iron limitation through cell biomass lowering. Botebol H, **Lelandais G**, Six C, **Lesuisse E**, Meng A, Bittner L, Lecrom S, Sutak R, Lozano JC, Schatt P, Vergé V, Blain S, Bouget FY. *Sci Rep.* **2017** Mar 23;7(1):327. doi: 10.1038/s41598-017-00216-6. PMID: 28336917
- E5-19 A novel C1SD2 mutation associated with a classical Wolfram syndrome phenotype alters Ca²⁺ homeostasis and ER-mitochondria interactions. Rouzier C, Moore D, Delorme C, Lacas-Gervais S, Ait-El-Mkadem S, Fragaki K, Burté F, **Serre V**, Bannwarth S, Chausseuot A, Catala M, Yu-Wai-Man P, Paquis-Flucklinger V. *Hum Mol Genet.* **2017** Mar 6. doi: 10.1093/hmg/ddx060. [Epub ahead of print] PMID: 28335035
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E6 – Jérôme COLLIGNON

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E7 – Virginie COURTIER-ORGOGOZO

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E8 – Valérie DOYE

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- E8-18 Floch AG, Palancade B, Doye V. (2014) *Fifty years of nuclear pores and nucleocytoplasmic transport studies: multiple tools revealing complex rules*. **Methods Cell Biol**. 122:1-40. doi: 10.1016/B978-0-12-417160-2.00001-1.
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E9 – Sandra DUHARCOURT

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Frapporti A, Arnaiz O, Eleftheriou E, Holoch D, Sperling L, Margueron R, Duharcourt S*. Transcriptional repression of transposable elements mediated by a histone H3 lysine 9 and 27 Enhancer of zeste like methyltransferase.

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Arnaiz O, Van Dijk E, Bétermier M, Lhuillier-Akakpo M, de Vanssay A, Duharcourt S, Sallet E, Gouzy J and Sperling L. Improved methods and resources for *Paramecium* genomics: Transcription Units, Gene Annotation and Gene Expression.

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- E9-1 Guérin F, Arnaiz O, Boggetto N, Denby Wilkes C, Meyer E, Sperling L and Duharcourt S*. (2017). Flow cytometry sorting of nuclei enables the first global characterization of *Paramecium* germline DNA and transposable elements. *BMC Genomics*. 2017 Apr 26;18(1):327. doi: 10.1186/s12864-017-3713-7.
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E10 – Julien DUMONT

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- E10-4 Joly, N., Martino, L., Gigant, E., Dumont, J., & Pintard, L. Microtubule-severing activity of AAA-ATPase Katanin is essential for female meiotic spindle assembly *Development*, 143(19):3604-3614 (2016).
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E11 – Thierry Galli

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- E11-21 Schena F, Volpi S, Faliti CE, Penco F, Santi S, Proietti M, Schenk U, Damonte G, Salis A, Bellotti M, Fais F, Tenca C, Gattorno M, Eibel H, Rizzi M, Warnatz K, Idzko M, Ayata K, Rakhmanov M, Galli T, Martini A, Canossa M, Grassi F, Traggiai E. Dependence of immunoglobulin class switch recombination in B cells on vesicular release of ATP and CD73 ectonucleotidase activity. *Cell Reports* <http://dx.doi.org/10.1016/j.celrep.2013.05.022>.
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- E11-28 T. Galli and **Proux–Gillardeaux V.** webpage and printed chapter “VAMP1/2/3/7” from “**Encyclopedia of Signaling Molecules**”, **Second Edition**, (accepted) Editor Pr. Sangdun Choi and Springer. ISBN: 978-1-4614-6438-9 (Print) 978-1-4614-6438-9 (Online)
- E11-29 **Wojnacki J, Galli T.** Membrane traffic during axon development. (2016). **Dev Neurobiol.** doi: 10.1002/dneu.22390.
- E11-30 **Gallo A, Vannier C, Galli T.** Endoplasmic Reticulum–Plasma Membrane Associations: Structures and Functions (2016). **Annu. Rev. Cell Dev. Biol.** 32:279-301.
- E11-31 **Daste T, Galli T, Tareste D.** Structure and function of Longin-SNAREs. (2015). **J Cell Sci** 128:4263-72.
- E11-32 **Molino D, Galli T.** Biogenesis and transport of membrane domains-potential implications in brain pathologies. (2014). **Biochimie** 96:75-84 doi:pii: S0300-9084(13)00328-3. 10.1016/j.biochi.2013.09.014
- E11-33 T. Galli and **Proux–Gillardeaux V.** webpage (2012) and printed (2013) chapter “VAMP1/2/3/7” from “**Encyclopedia of Signaling Molecules**”. 2013, XLVIII, 2030 p. 300 illus., 100 in color in 3 volumes. Editor Pr. Sangdun Choi and Springer. DOI10.1007/978-1-4419-0461-4_627, Print ISBN978-1-4419-0460-7, Online ISBN978-1-4419-0461-4 pp 1957–1963

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- E11-34 Marzolo MP, Faundez V, **Galli T.** (2015). EMBO Workshop al fin del mundo: a meeting on membrane trafficking and its implication for polarity and diseases. **Biol Cell.** 2015 Jul;107(7):245-8.
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- E11-36 **Galli T, Kuster A, Tareste D.** (2013) Nobel Prize in Physiology and Medicine 2013 - an award for the discovery of the actors and fundamental molecular mechanisms of intracellular vesicle trafficking. **Med Sci (Paris)**, 29(11):1055-8. doi: 10.1051/medsci/20112713024.
- E11-37 **Zylbersztejn K, Galli T.** (2012). Membrane traffic, a new actor in axon guidance. **Med Sci (Paris)** 28:267-9.
- E11-38 **Burgo A, Formstecher E, Galli T** (2012). Molecular network for the transport of intracellular vesicles from cell center to periphery. **Med Sci (Paris)** 28:1040-1.

Editorials

- E11-39 **Galli T.** (2015). Continue animal research? A necessity for biological knowledge and medical progress: a scientific or philosophical question? **Med Sci (Paris)** 31(6-7):579-80
- E11-40 Buée L, Chneiweiss H, Cossart P, Fischer A, **Galli T**, Hantraye P, Hérault Y, Montagutelli X, Sigaux F (2015). Oui, les modèles animaux sont nécessaires à la recherche Editorial **Le Monde** 13 May 2015.

E12 – Thierry GRANGE/Eva-Maria GEIGL

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- E12-1 **Bennett, E.A., Massilani, D., Lizzo, G., Daligault, J., Geigl, E.-M., Grange, T.** (2014) Library construction for ancient genomics: single strand or double strand? **Biotechniques** 56:289-300. DOI: 10.2144/000114176
- E12-2 Nores, C., Morales-Muniz, A., Llorente Rodriguez, L., **Bennett, E.A., Geigl, E.-M.** (2015) The Iberian zebro: what kind of beast was it? **Anthropozoologica** 50(1):21-32.
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- E12-4 **Côté, N.M.L., Daligault, J., Pruvost, M., Bennett, E.A., Gorgé, O., Guimaraes, S., Capelli, N., Le Bailly, M., Geigl*, E.-M., Grange, T.*** (2016) A New High-Throughput Approach to Genotype Ancient Human Gastrointestinal Parasites. **PLoS One.** 2016 11(1):e0146230. doi: 10.1371/journal.pone.0146230. eCollection 2016.
- E12-5 **Gorgé O, Bennett EA, Massilani D, Daligault J, Pruvost M, Geigl EM, Grange T.** (2016) Analysis of Ancient DNA in Microbial Ecology. **Methods Mol Biol.** 1399:289-315. doi: 10.1007/978-1-4939-3369-3_17.
- E12-6 **Guimaraes S, Pruvost M, Daligault J, Stoetzel E, Bennett EA, Côté NM, Nicolas V, Lalis A, Denys C, Geigl EM*, Grange T.*** (2016) A cost-effective high-throughput metabarcoding approach powerful enough to genotype ~44 000 year-old rodent remains from Northern Africa. **Mol Ecol Resour.** 2016 Jul 4. doi: 10.1111/1755-0998.12565
- E12-7 **Bennett, E. A., Gorgé, O., Grange, T., Fernández-Jalvo, Y. and Geigl, E.-M.** (2016) Coprolites, Paleogenomics and Bone Content Analysis. In « Azokh Cave and the Transcaucasian Corridor». Yolanda

- Fernández-Jalvo, Tania King, Levon Yepiskoposyan, and Peter Andrews (eds), Springer, Vertebrate Paleobiology and Paleoanthropology Series, E. Delson and E.J. Sargis (eds), p. 271-286 DOI 10.1007/978-3-319-24924-7
- E12-8 Cruz-Dávalos DI, Llamas B, Gaunitz C, Fages A, Gamba C, Soubrier J, Librado P, Seguin-Orlando A, **Pruvost M**, Alfarhan AH, Alquraishi SA, Al-Rasheid KA, Scheu A, Beneke N, Ludwig A, Cooper A, Willerslev E, Orlando L. 2016. Experimental conditions improving in-solution target enrichment for ancient DNA. *Mol Ecol Resour*. DOI : 10.1111/1755-0998.12595
- E12-9 **Massilani, D., Guimaraes, S.,** Jean-Philip Brugal, J.-P., **Bennett, E.A.,** Tokarska, M., Arbogast, R., Baryshnikov, G., Boeskorov, G., Castel, J.-C., Davydov, S., Madelaine, S., Putelat, O., Spasskaya, N., Uerpmann, H.-P., **Grange, T.*, Geigl, E.-M.*** (2016) Past climate changes, population dynamics and the origin of Bison in Europe. *BMC Biology* 14:93-110. DOI 10.1186/s12915-016-0317-7
- E12-10 **Otoni, C.,** Van Neer, W., De Cupere, B., **Daligault, J., Guimaraes, S.,** Peters, J., Spassov, N., Prendergast, M.E., Boivin, N., Morales-Muniz, A., Bălăşescu, A., Becker, C., Benecke, N., Boronenant, A., Buitenhuis, H., Chahoud, J., Crowther, A., Llorente, L., Manaseryan, N., Monchot, H., Onar, V., Osypińska, M., Putelat, O., Studer, J., Wierer, U., Decorte, R., **Grange, T.*, Geigl, E.-M.*** (2017) Of cats and men: the paleogenetic history of the dispersal of cats in the ancient world. *Nature Ecology & Evolution*.
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- E12-12 Librado P., C. Gamba, C. Gaunitz, C. Der Sarkissian, **M. Pruvost,** A. Albrechtsen, A. Fages, N. Khan, M. Schubert, V. Jagannathan, A. Serres-Armero, L. F. K. Kuderna, I. S. Povolotskaya, A. Seguin-Orlando, S. Lepetz, M. Neuditschko, C. Thèves, S. Alquraishi, A. H. Alfarhan, K. Al-Rasheid, S. Rieder, Z. Samashev, H.-P. Francfort, N. Benecke, M. Hofreiter, A. Ludwig, C. Keyser, T. Marques-Bonet, B. Ludes, E. Crubézy, T. Leeb, E. Willerslev and L. Orlando (2017). "Ancient genomic changes associated with domestication of the horse." *Science* 356(6336): 442-445.

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Book chapters

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- E12-17 **Geigl, E.M. and Grange, T.** (2015) Les stratégies et enjeux de l'analyse de l'ADN ancien. In "Messages d'os". M. Balasse, J.-P. Brugal, Y. Dauphin, **E.-M. Geigl,** C. Oberlin, I. Reiche (eds), Editions des Archives contemporaines, p. 433-452
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- E12-19 **Geigl, E.M. and Grange, T.** (2015) Le génome des lignées humaines archaïques. In "Messages d'os". M. Balasse, J.-P. Brugal, Y. Dauphin, **E.-M. Geigl,** C. Oberlin, I. Reiche (eds), Editions des Archives contemporaines, p. 501-520
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- E12-23 **Geigl, E.-M., Bennett, E.A., Grange, T.** (2016) Analyse de la dégradation de l'ADN dans une phalange de la Dame du Cavillon. In "La grotte du Cavillon". H. de Lumley (ed), CNRS Editions, p. 969-975.
- E12-24 Geigl, E.-M. and Grange, T. (2016) La paléogénomique, pour une lecture du passé au présent. « L'empreinte du vivant » D. Joly, D. Faure, S. Salamitou (eds), Editions Recherche Midi, p.151-165.
- E12-25 **Geigl, E.-M. et Grange, T.** (2017) Biodiversité passée et paléogénomique. « Les Big Data à Découvert », CNRS Editions. 2 pages

E13 – Antoine GUICHET

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E15 – Isabelle JUPIN

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E18 – Sébastien LEON

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E19 – Domenico LIBRI

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E21 – Khashayar PAKDAMAN

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- E21-10 An efficient GPU acceptance-rejection algorithm for the selection of the next reaction to occur for Stochastic Simulation Algorithms. Neri Mickael, **Denis Mestivier** [arXiv.org > cs > arXiv:1404.0027](https://arxiv.org/abs/1404.0027)
- E21-11 Adaptation and fatigue model for neuron networks and large time asymptotics in a nonlinear fragmentation equation. **Pakdaman K**, Perthame B, **Salort D.** *J Math Neurosci.* 2014 Jul 24;4:14. DOI: 10.1186/2190-8567-4-14. eCollection 2014.
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- E21-16 Commuter mobility and the spread of infectious diseases: application to influenza in france. Charaudeau S, **Pakdaman K**, Boëlle PY. *PLoS One.* 2014 Jan 9;9(1):e83002. DOI: 10.1371/journal.pone.0083002.

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- E21-22 Asymptotic expansion and central limit theorem for multiscale piecewise-deterministic Markov processes **Pakdaman, Khashayar**; Thieullen, Michele; **Wainrib, Gilles**. STOCHASTIC PROCESSES AND THEIR APPLICATIONS Volume: 122 Issue: 6 Pages: 2292-2318. DOI: 10.1016/j.spa.2012.03.005 Published: JUN 2012
- E21-23 Global attractor and asymptotic dynamics in the Kuramoto model for coupled noisy phase oscillators. Giacomini, Giambattista; **Pakdaman, Khashayar**; Pellegrin, Xavier NONLINEARITY Volume: 25 Issue: 5 Pages: 1247-1273. DOI: 10.1088/0951-7715/25/5/1247 Published: MAY 2012
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- E21-25 On a voltage-conductance kinetic system for integrate and fire neural networks. Benoit Perthame, **Delphine Salort** Kinetic and related models (KRM), special issue Seiji Ukai, vol 6, no 4, pp 841-864, dec.2013. DOI :10.3934/krm.2013.6.841 arXiv:1310.2742 [math.AP]

E22 – Alessandra PIERANI

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E23 – Lionel PINTARD

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E24 – Anne PLESSIS*Peer reviewed publications*

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E25 - Françoise POIRIER/Mireille VIGUIER

Peer reviewed publications

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- Hafsia N, Forien M, Renaudin F, Delacour D, Reboul D, Van Lent P, Cohen-Solal M, Lioté F, **Poirier F**, Ea HK. Galectin-3 deficiency alters chondrocyte primary cilium formation and exacerbates cartilage destruction through mitochondrial apoptosis. Submitted
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- E25-4 **Gendronneau G**, **Sanii S**, **Dang T**, **Deshayes F**, **Delacour D**, **Pichard E**, **Advedissian T**, Sidhu SS, **Viguier M**, Magnaldo T, **Poirier F**. Overexpression of Galectin-7 in mouse Epidermis Leads to loss of cell junctions and defective skin repair. *PLoS One.* 2015 Mar 5;10(3):e0119031
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E26 - Marie-Noëlle PRIOLEAU

Peer reviewed publications

- E26-1 Schiavone D, Guilbaud G, Murat P, Papadopoulou C, Sarkies P, Prioleau MN, Balasubramanian S, Sale JE. Determinants of G quadruplex-induced epigenetic instability in REV1-deficient cells. **EMBO J.** 2014 Nov 3;33(21):2507-20.
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- E26-6 DNA replication origins-where do we begin? Prioleau MN, MacAlpine DM. **Genes Dev.** 2016 Aug 1;30(15):1683-97.

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E27 – Vanessa RIBES

Peer reviewed publications

- E27-1. Gard C., Curto G.G., Frarma Y., Chollet E., Auzié V., Auradé F., Vigier L., Relaix F., Pierani A., Causeret F.# & Ribes V.# 2017. *Pax3-and Pax7-mediated Dbx1 repression orchestrates the patterning of intermediate spinal interneurons.* **Accepted in Dev. Biol.**

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- E27-1. Curto G.G., Gard C. & Ribes V.#. 2015. Structures and properties of PAX linked regulatory networks architecting and pacing the emergence of neuronal diversity. **Semin Cell Dev Biol.** Aug;44: 75-86.

E28 – Gilbert RICхарME

Peer reviewed publications

- E28-1 *Guanine Glycation Repair By Dj-1/Park7 And Its 1 Bacterial Homologs.* G. Richarme, C. Liu, M. Mihoub, J. Abdallah, T. Leger, Nicolas Joly, JC. Liebart, U. V. Jurkunas, M. Nadal, P. Bouloc, J. Dairou, A. Lamouri Science, **08 jun 2017.**
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- E28-4 *The Parkinsonism-associated protein DJ-1/Park7 prevents glycation damage in human keratinocyte.* Advedissian T, Deshayes F, Poirier F, Viguier M, Richarme G. **Biochem Biophys Res Commun.** 2016 Apr 22;473(1):87-91. DOI: 10.1016/j.bbrc.2016.03.056. Epub 2016 Mar 16.
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E30 – Terence STRICK

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E31 – Reiner VEITIA

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E32 – Michel VERVOORT

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- PTF-2 Selles J, Penrad-Mobayed M, Guillaume C, Fuger A, Auvray L, Faklaris O#, Montel F #. Nuclear Pore Complex Plasticity induced by Transcription Activity and Oocyte Development Revealed by Super-Resolution Microscopy, submitted. #co-corresponding authors
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