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Research Publications

[33] *HBV and HBsAg strongly reshape the phenotype, function and metabolism of DCs according to patients' clinical stage.* Lucile Dumolard, Theophile Gerster, Florent Chuffart, Thomas Decaens, David Durantel, Marie-Noelle Hilleret, Philippe Saas, Evelyne Jouvin-Marche¹, Patrice N. Marche, Zuzana Macek Jilkova and Caroline Aspod. **Hepatology Communications**, 2025.

[32] *Clustering of TP53 variants into functional classes correlates with cancer risk and identifies different phenotypes of the Li-Fraumeni Syndrome.* Emilie Montellier, Nathanaël Lemonnier, Judith Penkert, Claire Freycon, Sandrine Blanchet, Amina Amadou, **Florent Chuffart**, Nicholas W. Fischer, Maria Isabel Achatz, Arnold Levine, Catherine Goudie, David Malkin, Gaëlle Bougeard, Christian P. Kratz and Pierre Hainaut. **iScience**, 2024.

[31] *Long-term intermittent hypoxia in mice induces inflammatory pathways implicated in sleep apnea and steatohepatitis in humans.* Jonathan Gaucher, Emilie Montellier, Guillaume Vial, **Florent Chuffart**, Maëlle Guellerin, Sophie Bouyon, Emeline Lemarie, Yoshiki Yamaryo Botté, Aya Dirani, Raoua Ben Messaoud, Marie Joyeux Faure, Diane Godin Ribuo, Charlotte Costentin, Renaud Tamisier, Cyrille Y Botté, Saadi Khochbin, Sophie Rousseaux Jean-Louis Pépin. **iScience**, 2024.

[30] *Nucleoside Diphosphate Kinases 1 and 2 regulate a liver protective response to a high-fat diet.* Domenico Iuso, Isabel Garcia-Saez, Yohann Couté, Yoshiki Yamaryo-Botté, Elisabetta Boeri Erba, Annie Adrait, Nour Zeaiter, Malgorzata Tokarska-Schlattner, Zuzana Macek Jilkova, Fayçal Boussouar, Sophie Barral, Luca Signor, Karine Couturier, Azadeh Hajmirza, **Florent Chuffart**, Ekaterina Bourova-Flin, Anne-Laure Vitte, Lisa Bargier, Denis Puthier, Thomas Decaens, Sophie Rousseaux, Cyrille Botté, Uwe Schlattner, Carlo Petosa, Saadi Khochbin. **Science Advances**, 2023.

[29] *Aberrant activation of five embryonic stem cell-specific genes robustly predicts a high risk of relapse in breast cancers.* Emmanuelle Jacquet, **Florent Chuffart**, Anne-Laure Vitte, Eleni Nika, Mireille Mousseau, Saadi Khochbin, Sophie Rousseaux, Ekaterina Bourova-Flin. **BMC Genomics**, 2023.

[28] *Serum IGF1 is a prognostic marker for resistance to targeted therapies and a predictive marker for anti-IGF1R therapy in melanoma.* Camila Castillo Ferrer, Théo Marguet, Laetitia Vanwonderghem, Sule Erbek, **Florent Chuffart**, Stéphane Mouret, Sabiha Trabelsi Messai, Anne-Sophie Gauchez, Jean-Luc Coll, Julie Charles, Amandine Hurbin, Véronique Martel-Frchet. **Journal of Investigative Dermatology**, 2023.

[27] *Luspatercept (RAP-536) modulates oxidative stress without affecting mutation burden in myelodysplastic syndromes.* Meunier Mathieu, Chloé Friedrich, Nicolas Ducrot, Johanna Zannoni, Tondeur Sylvie, Nelly Jerraya, Sophie Rousseaux, **Florent Chuffart**, Olivier Kosmider, Zoubida Karim, Sophie Park. **Ann Hematol**, 2022.

[26] *Chromatin-associated YTHDC1 coordinates heat-induced reprogramming of gene expression.* Kalina Timcheva, Solenne Dufour, Leila Touat-Todeschini, Callum Burnard, Marie-Christine Carpentier, **Florent Chuffart**, Rémy Merret, Marion Helsmoortel, Sabrina Ferré, Aude Grézy, Yohann Couté, Sophie Rousseaux, Saadi Khochbin, Claire Vourc'h, Cécile Bousquet-Antonelli, Rosemary Kiernan, Daphné Seigneurin-Berny, and André Verdel. **Cell Report**, 2022.

[25] *SMYD3 impedes small cell lung cancer sensitivity to alkylation damage through RNF113A methylation-phosphorylation crosstalk.* Valentina Lukinovic, Simone Hausmann, Gaël Roth, Clement Oyeniran, Tanveer

Ahmad, Ning Tsao, Joshua Brickner, Alexandre Casanova, **Florent Chuffart**, Ana Morales Benitez, Jessica Vayr, Rebecca Rodell, Marianne Tardif, Pascal W.T.C. Jansen, Yohann Couté, Michiel Vermeulen, Pierre Hainaut, Pawel Mazur, Nima Mosammaparast, and Nicolas Reynoird. **Cancer Discovery**, 2022.

[24] *Ectopic expression of a combination of 5 genes detects high risk forms of T-cell acute lymphoblastic leukemia*. Li-Jun Peng, Yue-Bo Zhou, Mei Geng, Ekaterina Bourova-Flin, **Florent Chuffart**, Wei-Na Zhang, Tao Wang, Meng-Qing Gao, Meng-Ping Xi, Zhong-Yi Cheng, Jiao-Jiao Zhang, Yuan-Fang Liu, Bing Chen, Saadi Khochbin, Jin Wang, Sophie Rousseaux, Jian-Qing Mi. **BMC Genomics**, 2022.

[23] *Chronic intermittent hypoxia increases cell proliferation in hepatocellular carcinoma*. Lydie Carreres, Marion Mercey-Ressejac, Keerthi Kurma, Julien Ghelfi, Carole Fournier, Olivier Manches, **Florent Chuffart**, Sophie Rousseaux, Melanie Minovés, Thomas Decaens, Herve Lerat, Zuzana Macek Jilkov. **Cells**, 2022.

[22] *Direct visualization of pre-protamine 2 detects protamine assembly failures and predicts ICSI success*. Maryam Rezaei-Gazik, Alexandra Vargas, Amir Amiri-Yekta, Anne-Laure Vitte, Arvand Akbari, Sophie Barral, Vahid Esmaeili, **Florent Chuffart**, Mohammad Ali Sadighi-Gilani, Yohann Coute, Poopak Eftekhari-Yazdi, Saadi Khochbin, Sophie Rousseaux and Mehdi Totonchi. **MRH**, 2022.

[21] *AKR1B10, one of the triggers of cytokine storm in SARS-Cov2 severe Acute Respiratory Syndrome*. Clovis Chabert, Anne-Laure Vitte, Domenico Iuso, **Florent Chuffart**, Candice Trocme, Marlyse Buisson, Pascal Poignard, Benjamin Lardinois, Régis Debois, Sophie Rousseaux, Jean-Louis Pepin, Jean-Benoit Martinot, Saadi Khochbin. **IJMS**, 2022.

[20] *DEN-Induced Rat Model Reproduces Key Features of Human Hepatocellular Carcinoma*. Keerthi Kurma, Olivier Manches, **Florent Chuffart**, Nathalie Sturm, Khaldoun Gharzeddine, Jianhui Zhang, Marion Mercey-Ressejac, Sophie Rousseaux, Arnaud Millet, Herve Lerat, Patrice N Marche, Zuzana Macek Jilkova and Thomas Decaens. **Cancers (Basel)**, 2021.

[19] *Metabolically controlled histone H4K5 acylation/acetylation ratio drives BRD4 genomic distribution*. Mengqing Gao, Jin Wang, Sophie Rousseaux, Minjia Tan, Lulu Pan, Lijun Peng, Sisi Wang, Wenqian Xu, Jiayi Ren, Yuanfang Liu, Martin Spinck, Sophie Barral, Tao Wang, **Florent Chuffart**, Ekaterina Bourova-Flin, Denis Puthier, Sandrine Curtet, Lisa Bargier, Zhongyi Cheng, Heinz Neumann, Jian Li, Yingming Zhao, Jian-Qing Mi and Saadi Khochbin. **Cell Rep**, 2021.

[18] *ATAD2 controls chromatin-bound HIRA turnover*. Tao Wang, Daniel Perazza, Fayçal Boussouar, Matteo Cattaneo, Alexandre Bougdour, **Florent Chuffart**, Sophie Barral, Alexandra Vargas, Ariadni Liakopoulou, Denis Puthier, Lisa Bargier, Yuichi Morozumi, Mahya Jamshidikia, Isabel Garcia-Saez, Carlo Petosa, Sophie Rousseaux, André Verdel, Saadi Khochbin. **Life Sci Alliance**, 2021.

[17] *CCM2 deficient endothelial cells undergo a mechano-dependent reprogramming into senescence associated secretory phenotype used to recruit endothelial and immune cells*. Daphné Raphaëlle Vannier, Apeksha Shapeti, **Florent Chuffart**, Emmanuelle Planus, Sandra Manet, Paul Rivier, Olivier Destaing, Corinne Albiges-Rizo, Hans Van Oosterwyck, Eva Faurobert. **Angiogenesis** 2021.

[15] *Chidamide inhibits the NOTCH1-MYC signaling axis in T-cell acute lymphoblastic leukemia*. Mengping Xi, Shanshan Guo, Caicike Bayin, Lijun peng, **Florent Chuffart**, Ekaterina Bourova-Flin, Sophie Rousseaux, Saadi Khochbin, Jianqing Mi, Jin Wang. **Frontiers in Medicine**, under Revision,

[14] *The combined detection of Amphiregulin, Cyclin A1 and DDX20/Gemin3 expression predicts aggressive forms of Oral Squamous Cell Carcinoma*. Ekaterina Bourova-Flin, Samira Derakhshan, Afsaneh Goudarzi, Tao Wang, Anne-Laure Vitte, **Florent Chuffart**, Saadi Khochbin, Sophie Rousseaux, Pouyan Aminishakib. **British Journal of Cancer**, accepted 28th May 2021,

[13] *Immediate and durable effects of maternal tobacco consumption alter placental DNA methylation in enhancer and imprinted gene-containing regions*. Sophie Rousseaux, Emie Seyve, **Florent Chuffart**, Ekaterina Bourova-Flin, Meriem Benmerad, Marie-Aline Charles, Anne Forhan, Barbara Heude, Valérie Siroux, Remy Slama, Jorg Tost, Daniel Vaiman, Saadi Khochbin, Johanna Lepeule, EDEN Mother-Child Cohort Study Group. **BMC Med**, 2020.

- [12] *PenDA, a Rank-Based Method for Personalized Differential Analysis: Application to Lung Cancer*. Magali Richard, Clémentine Decamps, **Florent Chuffart**, Elisabeth Brambilla, Sophie Rousseaux, Saadi Khochbin, Daniel Jost. **PLoS Comput Biol**, 2020.
- [11] *RNA-Guided Genomic Localization of H2A.L.2 Histone Variant*. Naghmeh Houghoughi Sophie Barral Sandrine Curtet, **Florent Chuffart**, Guillaume Charbonnier, Denis Puthier, Thierry Buchou, Sophie Rousseaux, Saadi Khochbin. **Cells**, 2020.
- [10] *Extracellular Vesicles From Myelodysplastic Mesenchymal Stromal Cells Induce DNA Damage and Mutagenesis of Hematopoietic Stem Cells Through miRNA Transfer*. Mathieu Meunier, Audrey Guttin, Sarah Ancelet, David Laurin, Johanna Zannoni, Christine Lefebvre, Sylvie Tondeur, Virginie Persoons, Mylène Pezet, Karin Pernet-Gallay, **Florent Chuffart**, Sophie Rousseaux, Quentin Testard, Julien Thevenon, Claire Jouzier, Jean-François Deleuze, Karine Laulagnier, Rémy Sadoul, Christine Chatellard, Pierre Hainaut, Benoît Polack, Jean-Yves Cahn, Jean-Paul Issartel, Sophie Park. **Leukemia**, 2020.
- [9] *Guidelines for cell-type heterogeneity quantification based on a comparative analysis of reference-free DNA methylation deconvolution software*. Clémentine Decamps, Florian Privé, Raphael Bacher, Daniel Jost, Arthur Waguët, **HADACA consortium**, Eugene Andres Houseman, Eugene Lurie, Pavlo Lutsik, Aleksandar Milosavljevic, Michael Scherer, Michael G. B. Blum Magali Richard. **BMC Bioinformatics**, 2020.
- [8] *Nut Directs p300-Dependent, Genome-Wide H4 Hyperacetylation in Male Germ Cells*. Shiota H, Barral S, Buchou T, Tan M, Couté Y, Charbonnier G, Reynoird N, Boussouar F, Gérard M, Zhu M, Bargier L, Puthier D, **Chuffart F**, Bourova-Flin E, Picaud S, Filippakopoulos P, Goudarzi A, Ibrahim Z, Panne D, Rousseaux S, Zhao Y, Khochbin S. **Cell Rep**, 2018.
- [7] *Pregnancy exposure to atmospheric pollution and meteorological conditions and placental DNA methylation*. Emilie Abraham, Sophie Rousseaux, Lydiane Agier, Lise Giorgis-Allemand, Jörg Tost, Julien Galineau, Agnès Hulin, Valérie Siroux, Daniel Vaiman, Marie-Aline Charles, Barbara Heude, Anne Forhan, Joel Schwartz, **Florent Chuffart**, Ekaterina Bourova-Flin, Saadi Khochbin, Rémy Slama, Johanna Lepeule. **Environment International**, 2018.
- [6] *Assigning function to natural allelic variation via dynamic modeling of gene network induction*. Richard M, **Chuffart F**, Duplus-Bottin H, Pouyet F, Spichy M, Fulcrand E, Entrevan M, Barthelaix A, Springer M, Jost D, Yvert G. **Mol Syst Biol**, 2018.
- [5] *Exploiting single-cell quantitative data to map genetic variants having probabilistic effects*. **Chuffart F**, Richard M, Jost D, Burny C, Duplus-Bottin H, Ohya Y, Yvert G. **PLOS Genetics**, 2016.
- [4] *The complex pattern of epigenomic variation between natural yeast strains at single-nucleosome resolution*. Fabien Filleton, **Florent Chuffart**, Muniyandi Nagarajan, Helene Bottin-Duplus, Gael Yvert. **Epigenetics and Chromatin**, 2015.
- [3] *MyLabStocks: a web-application to manage molecular biology materials*. **Florent Chuffart** and Gael Yvert. **Yeast**, 2014.
- [2] *When Self-Stabilization Meets Real Platforms: an Experimental Study of a Peer-to-Peer Service Discovery System*. Eddy Caron, **Florent Chuffart**, Cédric Tedeschi. **Future Generation Computer Systems**, 2013.
- [1] *SimExplorer : Programming Experimental Designs on Models and Managing Quality of Modelling Process*. **Florent Chuffart**, Nicolas Dumoulin, Thierry Faure, Guillaume Deffuant. **International Journal of Agricultural and Environmental Information Systems**, 2010.

Software Production

dmethr: Hunting DNA methylation repression of transcriptional activity and its reactivation in a demethylating context <https://github.com/fchuffart/dmethr>

medepir: DNA METHylation DEconvolution Pipeline in R <https://github.com/bcm-uga/medepir>

methepic_map: An R script that build a dictionary of probes according to array annotations https://github.com/fchuffar/methepic_map

pipeline_mnase: A set of scripts that orchestrate the analysis of MNase-Seq and ChIP-Seq data https://github.com/fchuffar/pipeline_mnase

pipeline_rrbs: A set of scripts that orchestrate the analysis of RRBS data https://github.com/fchuffar/pipeline_rrbs

ectopy: A Python package that detects ectopic gene expression in cancer <https://github.com/epimed/ectopy>

ector: An R package that detects ectopic gene expression in cancer <https://github.com/mpetrier/ector>

deeptoolsr: DeepTools binding for R. <https://github.com/fchuffar/deeptoolsr>

penda: An R package that performs personalized differential analysis of omics data. <https://github.com/bcm-uga/penda>

dmprocr: a set of usefull functions organized around a workflow and performing differential methylation profiles clustering. <https://github.com/bcm\T1\textendashhuga/dmprocr>

epimedtools: A package providing a set of useful statistical functions. This package relies on ‘GEOquery’ and ‘affy’ packages, R Reference Classes, caching features and memoisation to simplify, homogenize and speed up multi-omic analysis. <https://github.com/fchuffar/epimedtools>

methmybeachup: A package providing a set of functions allowing to easily convolves and visualize the methylome signal across genes and CpG islands. <https://github.com/fchuffar/methmybeachup>

BoT: (stands for Bag of Tasks) is an R package allowing to distribute independent tasks over many cores and many computing nodes. <https://github.com/fchuffar/bot>

ptlmapper: a package which contains functions that are used to map single-cell Probabilistic Trait Loci (scPTL). The principle of scPTL mapping is to consider a distribution of single-cell traits as the phenotype of a (multicellular) individual, to acquire this phenotype in many individuals, and to scan the genome for DNA variants that change this phenotype. <https://github.com/fchuffar/ptlmapper>

Training

2022: Formation interne FIJI. 29 septembre 2022, IAB, Grenoble.

2022: ANF Formation de Formateurs Internes CNRS. 20, 21 et 29 juin 2022, 11 et 12 juillet 2022, Grenoble.

2021: Atelier Statistique : Traitement statistique de données censurées en analyse de survie, 5, 6, 7 juillet 2021, distanciel.

2020: Single Cell: Génomique de la cellule unique. 8-9 octobre 2020, Lyon (69), France.

2019: Health data challenge (2nd edition), Matrix factorization and deconvolution methods to quantify tumor heterogeneity in cancer. November 29, 2019, Aussois (France), https://cancer-heterogeneity.github.io/data_challenges.html

2018: Health Data Challenge: Matrix factorization and deconvolution methods to quantify tumor heterogeneity in cancer research, 10-14 decembre 2018, Aussois (73), France.

2018 : Biologie intégrative ou biologie des systèmes par Joëlle Henry-Berger, 5-9 novembre 2018, Lyon (69), France.

2018: Journée Campagnes de calculs reproductibles, 23 october, Lyon (69), France.

2017: Epigenetic & High-Dimension Mediation Data Challenge. 7-9 June, Aussois (73), France.

2017: Rencontres scientifiques des Grands Causses : Modélisation physique de l’organisation nucléaire et de ses pathologies. 9-12 Mai, Millau (12), France.

2016: Capture de conformation de chromosomes : vers l'analyse tridimensionnelle de la régulation des génomes. 2-4 Mai, Bordeaux (33), France.

2015: DU in statistics at University of Strasbourg. 19-23 January, 15-19 June, 16-20 November, Strasbourg (67), France.

2015: "R pour le calcul", R avancé et performances. 5-9 October, Aussois (73), France.

2015: Advanced Lecture Course on Computational Systems Biology. 6-11 April, Aussois (73), France.

2012: Advances Lecture Course Hybrid Multicore Parallel Programming, 8-12 October, Autrans (38), France.

2012: Wellcome Trust Advanced Course: In Silico Systems Biology. 23-27 April, Cambridge, UK.

2009: Mexico Advanced Course in Sensitivity Analysis. 11-14 May, Hyères (83), France.

Jobs

Since December 2015: Research Engineer (IR) at IAB, INSERM, Grenoble, France. Data analysis and modelling of biological systems.

September 2012 - November 2015: Post Doctoral position at LBMC, CNRS, Lyon, France. Dynamic simulation of a gene regulatory network in various wild genetic backgrounds of yeast. project SiGHT (ERC-StG2011-281359) (Systems Genetics of Heritable variations)

September 2009 - August 2012: Senior Engineer position at LIP, Inria, Lyon, France. Design and implementation of a peer-to-peer grid middleware supporting petascale architecture. SPADES project (08-ANR-SEGI-025) (Servicing Petascale Architectures and Distributed System)

January 2008 - August 2009: Post Doctoral position at Irstea (ex-Cemagref), Clermont-Ferrand, France. Compared study, design and implementation of Individual Based Model (IBM) and Differential Equation Model (DEM). Application to predator-prey model that incorporates individual behavior of the predators. Sensitivity analysis of from model parameters, impact on model behavior. LifeGrid / PatRes project (FP6-043268) (Pattern Resilience)

October 2004 - December 2007: Ph.D. position at France Telecom / University of Caen Basse-Normandie, Caen, France. Conception design and implementation of an ubiquitous services platform integrating distributed multimodal interfaces. AURORA Project (ITEA-03005)

Education

2016: DU degree in statistics at University of Strasbourg, Strasbourg, France.

2007: Ph.D. degree in computer science at University of Caen Basse-Normandie, Caen, France.

2004: DEA (master science) in computer science, artificial intelligence and algorithm at University of Caen Basse-Normandie, Caen, France.

2003: Maitrise (master's degree) in applied Mathematics at University of Rouen, Rouen, France.

2002: Licence (under graduate) in Mathematics at University of Rouen, Rouen, France.

1999: DUT (two-year university degree in technology) in Chemistry at IUT (University Institute of Technology) of Rouen, Rouen, France.

1997: Baccalauréat (French secondary school diploma), science major, Rouen, France.

Other Communications

Comité d'organisation des *Open Science Days@UGA*, les 13 14 et 15, Grenoble (38).

Tutoriel *Software Heritage et HAL : référencement de codes* Lucie Albaret, Alexis Arnaud, Violaine Louvet, Maria-Grazia Santangelo, Florent Chuffart **Open Science Days@UGA**, 14 décembre 2022, Grenoble (38).

Construction of a clock to measure the impact of tobacco on the epigenetic age of whole blood. Florent Jossaud, Fabien Chuffart, Julien Thevenon. **3IA PhD students workshop**, 21 November 2022, Grenoble (38).

Methodological Pitfalls in the Construction of Epigenetic Clock Models. Florent Chuffart. **LBBE seminar**, 08 November 2022, Lyon (69).

DNA methylation repression of transcriptional activity and its reactivation in a demethylating context. F. Pittion, E. Bourova-Flin, S. Khochbin, S. Rousseaux, F. Chuffart. **JOBIM**, 06-09 july 2021, Paris (75).

Réflexion autour de l'analyse de variance dans le cadre d'un plan d'expérience incomplet. Florent Chuffart. **Les Remues-Ménages du RIS**, 26 novembre 2021, distanciel.

Analysis of RNA-seq data. Florent Chuffart. **Journée thématique 'statistique & génomique'**, 19 september 2019, Paris.

Snakemake as workflow engine. Florent Chuffart. **Python working session**. 20 june 2019, Grenoble.

Histone variants: critical determinants in tumour heterogeneity. Wang T, **Chuffart F**, Bourova-Flin E, Wang J, Mi J, Rousseaux S, Khochbin S. **Front Med** 13 (3), 289-297. Jun 2019.

ROCKs dependent contractility upon CCM depletion leads to a loss of endothelial cell identity and a gain in invasive phenotype. Daphné Vannier et al. Poster. **Developmental and cell biology of the future conference**, 27-29 march 2019, Paris.

Utilisation des ressources CIMENT dans le cadre du projet *epimed: les besoins spécifiques de la bioinformatique pour l'analyse des données d'exome*. Quentin Testard, Julien Thevenon, Jean-François Taly, Laure Raymond, **Florent Chuffart**. **JCAD** 2018, 24-26 october, Lyon (69), France.

Intégration de données multi-omiques: RGCCA, Mix Omics. Florent Chuffart. **Journée thématique 'statistique & génomique'**, 12 octobre 2018, Paris.

Retour d'expérience concernant le data challenge épigénétique et médiation à large échelle d'Aussois. Sophie Achard, Dylan Aïssi, Michael Blum, Kevin Caye, **Florent Chuffart**, Olivier François, Keurcien Luu, Florian Privé, Magali Richard. **CFIES2017**, septembre 2017, Grenoble, France. <https://toltex.imag.fr/users/RCqls/Workshop/cfies2017/Submissions/subm44.pdf>

The role of bromodomain testis-specific factor, BRDT, in cancer: a biomarker and a possible therapeutic target. Ekaterina Flin, **Florent Chuffart**, Sophie Rousseaux, Saadi Khochbin. **Cell J** (Yakhteh) Volume 19, Supplement 1, Spring 2017

Heterogeneity in Carcinogenesis Mechanism (the lung cancer example) Florent Chuffart. **Kick-off PITCHER**. Lyon, 9 march 2017.

execo (APP creation deposit). Matthieu Imbert, Laurent Pouilloux, **Florent Chuffart**. APP. 2015.

A General Method to map Single-cell Probabilistic Trait Loci of the Genome. (Short Talk). Florent Chuffart. **Quatrièmes Rencontres R**, 24-26 June 2015, Grenoble, France.

Functional Genetic Diversity of the Yeast Galactose Network. (Short Talk). Florent Chuffart. **CompSysBio**, 6-11 April 2015, Aussois, France.

NucleoMiner 2.0: Detecting intra-species quantitative epigenomic variation at single-nucleosome resolution. **Florent Chuffart**, Gael Yvert. (Poster). **LyonSysBio**, 19-21 November 2014, Villeurbanne, France.

Parallel Computing in R using the Bot Package. Florent Chuffart (Poster). **Deuxièmes rencontres R**. 27-28 Juin 2013, Lyon, France.

Optimization in a Self-stabilizing Service Discovery Framework for Large Scale Systems. (in Proceedings). Eddy Caron, **Florent Chuffart**, Anissa Lamani, Franck Petit. **SSS**. 2012. 239-252.

Large scale P2P discovery middleware demonstration. (in Proceedings). Eddy Caron, **Florent Chuffart**, Haiwu He, Anissa Lamani, Philippe Le Brouster, Olivier Richard. **IEEE International Conference on Peer-to-Peer Computing (P2P)**, 1-2 September 2011, Kyoto, Japan. 152-153

Mise en oeuvre de la découverte de services pour des plateformes dynamiques à large échelle. (in Proceedings). **Florent Chuffart**, Haiwu He. **RenPar'20**, 10-13 May 2011, Saint-Malo, France. RSTI, serie TSI, 31:8-9-10, 1101-1119.

Implementation and Evaluation of a P2P Service Discovery System: Application in a Dynamic Large Scale Computing Infrastructure. (in Proceedings). Caron, E.; **Chuffart, F.**; Haiwu He; Tedeschi, C. **IEEE 11th International Conference on Computer and Information Technology (CIT)**. 2011. 41-46.

Declarative task delegation in OpenMOLE. (in Proceedings). R Reuillon, **F Chuffart**, M Leclaire, T Faure, N Dumoulin, D Hill. **International Conference on High performance computing and simulation (HPCS)**. 2010. 55-62.

Applying a Moment Approximation to a bacterial biofilm individual-based model. (in Proceedings). J-D. Mathias, **F. Chuffart**, N. Mabrouk, and G. Deffuant. **ICCGI 2009** : Proceedings of the 2009 Fourth International Multi-Conference on Computing in the Global Information Technology, pages 138-143, Washington, DC, USA, 2009. IEEE Computer Society.

Record & replay: expérimentation d'un service multimodal. (in Proceedings). Antoine Bouyer, **Florent Chuffart**. **UbiMob '09** Proceedings of the 5th French-Speaking Conference on Mobility and Ubiquity Computing. 2009. 19-23.

The Design of a Multimodal Platform: Experimentation of Record & Replay. (in Proceedings). Bouyer, A. ; **Chuffart, F.** ; Courval, L. **Second International Conferences on Advances in Computer-Human Interactions**. 2009. 1-6.

Design and Analysis of Computer Experiments with SimExplorer. (in Proceedings). **Florent Chuffart**, Thierry Faure, Nicolas Dumoulin, Romain Reuillon, and Guillaume Deffuant. **European Simulation and Modelling Conference (ESM2008)**. 27-29 October 2008, Le Havre, France. 575-577.

Conception d'une plate-forme de services ubiquitaires intégrant des interfaces multimodales distribuées. (PhD thesis). Florent Chuffart. Université de Caen Basse-Normandie. 2007.

Construction d'une application vocale pour la sélection d'objets à l'aide d'un modèle basé sur les hypergraphes. (in Proceedings). Cyril Bazin, **Florent Chuffart**, and Jacques Madelaine. **9ème Conférence Internationale sur le Document Numérique**. 18-20 Septembre 2006, Fribourg, Suisse. 43-58.

Aurora, multimodal messaging framework for ubiquitous web context. (Communication). **F. Chuffart**, F. Van Gool, and L. Courval. **W3C Ubiquitous Web Workshop**, 2006.

Aurora, a framework enabling multimodal interactions. (in Proceedings). **Florent Chuffart**, Filip Van Gool, and Lionel Courval. In Workshop on International on Multimodal Multiparty Meeting Processing, ACM **ICMI Workshop**. 7 October 2005, Trento, Italy. 53-585.