



Emmanuel Barillot Chef d'équipe

TEAM BARILLOT

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## Key publications

### Year of publication 2018

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Forget Antoine, Martignetti Loredana, Puget Stéphanie, Calzone Laurence, Brabetz Sebastian, Picard Daniel, Montagud Arnau, Liva Stéphane, Sta Alexandre, Dingli Florent, Arras Guillaume, Rivera Jaime, Loew Damarys, Besnard Aurore, Lacombe Joëlle, Pagès Mélanie, Varlet Pascale, Dufour Christelle, Yu Hua, L. Mercier Audrey, Indersie Emilie, Chivet Anaïs, Leboucher Sophie, Sieber Laura, Beccaria Kevin, Gombert Michael, D. Meyer Frauke, Qin Nan, Bartl Jasmin, Chavez Lukas, Okonechnikov Konstantin, Sharma Tanvi, Thatikonda Venu, Bourdeaut Franck, Pouponnot Celio, Ramaswamy Vijay, Korshunov Andrey, Borkhardt Arndt, Reifenberger Guido, Pouillet Patrick, D. Taylor Michael, Kool Marcel, M. Pfister Stefan, Kawauchi Daisuke, Barillot Emmanuel, Remke Marc, Ayrault Olivier (2018 Sep 10)

#### **Aberrant ERBB4-SRC Signaling as a Hallmark of Group 4 Medulloblastoma Revealed by Integrative Phosphoproteomic Profiling**

*Cancer Cell* : 34 : 379-395 : [DOI : 10.1016/j.ccell.2018.08.002](https://doi.org/10.1016/j.ccell.2018.08.002)

### Year of publication 2017

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Boeva, V., Louis-Brennetot, C., Peltier, A., Durand, S., Pierre-Eugène, C., Raynal, V., Etchevers, H.C., Thomas, S., Lermine, A., Daudigeos-Dubus, E., Georger, B., Orth, M.F., Grünwald, T.G.P., Diaz, E., Ducos, B., Surdez, D., Carcaboso, A.M., Medvedeva, I., Deller, T., Combaret, V., Lapouble, E., Pierron, G., Grossetête-Lalami, S., Baulande, S., Schleiermacher, G., Barillot, E., Rohrer, H., Delattre, O., and Janoueix-Lerosey, I. (2017 Sep 1)

#### **Heterogeneity of neuroblastoma cell identity defined by transcriptional circuitries.**

*Nature Genetics* : [DOI : 10.1038/ng.3921](https://doi.org/10.1038/ng.3921)

Maud Borensztein, Laurène Syx, Katia Ancelin, Patricia Diabangouaya, Christel Picard, Tao Liu, Jun-Bin Liang, Ivaylo Vassilev, Rafael Galupa, Nicolas Servant, Emmanuel Barillot, Azim Surani, Chong-Jian Chen, Edith Heard (2017 Jan 31)

**Xist-dependent imprinted X inactivation and the early developmental consequences of its failure.**

*Nature structural & molecular biology* : [DOI : 10.1038/nsmb.3365](https://doi.org/10.1038/nsmb.3365)

**Year of publication 2016**

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Wael Jdey, Sylvain Thierry, Christophe Russo, Flavien Devun, Muthana Al Abo, Patricia Noguez-Hellin, Jian-Sheng Sun, Emmanuel Barillot, Andrei Zinovyev, Inna Kuperstein, Yves Pommier, Marie Dutreix (2016 Aug 26)

**Drug Driven Synthetic Lethality: bypassing tumor cell genetics with a combination of Dbait and PARP inhibitors.**

*Clinical cancer research : an official journal of the American Association for Cancer Research* : [DOI : clincanres.1193.2016](https://doi.org/10.1158/1078-0432.CCR.151932)

**Year of publication 2015**

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Antonio Cappuccio, Raphaël Zollinger, Mirjam Schenk, Aleksandra Walczak, Nicolas Servant, Emmanuel Barillot, Philippe Hupé, Robert L Modlin, Vassili Soumelis (2015 Apr 21)

**Combinatorial code governing cellular responses to complex stimuli.**

*Nature communications* : 6847 : [DOI : 10.1038/ncomms7847](https://doi.org/10.1038/ncomms7847)

**Year of publication 2014**

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Maia Chanrion, Inna Kuperstein, Cédric Barrière, Fatima El Marjou, David Cohen, Danijela Vignjevic, Lev Stimmer, Perrine Paul-Gilloteaux, Ivan Bièche, Silvina Dos Reis Tavares, Giuseppe-Fulvio Boccia, Wulfran Cacheux, Didier Meseure, Silvia Fre, Loredana Martignetti, Patricia Legoix-Né, Elodie Girard, Luc Fetler, Emmanuel Barillot, Daniel Louvard, Andrei Zinovyev, Sylvie Robine (2014 Apr 9)

**Concomitant Notch activation and p53 deletion trigger epithelial-to-mesenchymal transition and metastasis in mouse gut.**

*Nature communications* : 5005 : [DOI : 10.1038/ncomms6005](https://doi.org/10.1038/ncomms6005)

Anne Biton, Isabelle Bernard-Pierrot, Yinjun Lou, Clémentine Krucker, Elodie Chapeaublanc, Carlota Rubio-Pérez, Nuria López-Bigas, Aurélie Kamoun, Yann Neuzillet, Pierre Gestraud, Luca Grieco, Sandra Rebouissou, Aurélien de Reyniès, Simone Benhamou, Thierry Leuret, Jennifer Southgate, Emmanuel Barillot, Yves Allory, Andrei Zinovyev, François Radvanyi (2014 Jan 25)

**Independent component analysis uncovers the landscape of the bladder tumor transcriptome and reveals insights into luminal and basal subtypes.**

*Cell reports* : 1235-45 : [DOI : 10.1016/j.celrep.2014.10.035](https://doi.org/10.1016/j.celrep.2014.10.035)

**Year of publication 2013**

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Andrei Zinovyev, Inna Kuperstein, Emmanuel Barillot, Wolf-Dietrich Heyer (2013 Dec 14)

**Synthetic lethality between gene defects affecting a single non-essential molecular pathway with reversible steps.**

*PLoS computational biology* : e1003016 : [DOI : 10.1371/journal.pcbi.1003016](https://doi.org/10.1371/journal.pcbi.1003016)

Haitham Ashoor, Aurélie Hérault, Aurélie Kamoun, François Radvanyi, Vladimir B Bajic, Emmanuel Barillot, Valentina Boeva (2013 Sep 9)

**HMCan: a method for detecting chromatin modifications in cancer samples using ChIP-seq data.**

*Bioinformatics (Oxford, England)* : 2979-86 : [DOI : 10.1093/bioinformatics/btt524](https://doi.org/10.1093/bioinformatics/btt524)

**Year of publication 2012**

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Eric Bonnet, Laurence Calzone, Daniel Rovera, Gautier Stoll, Emmanuel Barillot, Andrei Zinovyev (2012 Sep 7)

**BiNoM 2.0, a Cytoscape plugin for accessing and analyzing pathways using standard systems biology formats.**

*BMC systems biology* : 18 : [DOI : 10.1186/1752-0509-7-18](https://doi.org/10.1186/1752-0509-7-18)

Sofia I Bogiatzi, Maude Guillot-Delost, Antonio Cappuccio, Jean-Christophe Bichet, Olfa Chouchane-Mlik, Marie-Hélène Donnadieu, Emmanuel Barillot, Philippe Hupé, Katerina Chlichlia, Eleni I Efremidou, Selim Aractingi, Olivier Bayrou, Vassili Soumelis (2012 Mar 11)

**Multiple-checkpoint inhibition of thymic stromal lymphopoietin-induced TH2 response by TH17-related cytokines.**

*The Journal of allergy and clinical immunology* : 233-40.e5 : [DOI : 10.1016/j.jaci.2012.04.038](https://doi.org/10.1016/j.jaci.2012.04.038)

**Year of publication 2011**

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Elphège P Nora, Bryan R Lajoie, Edda G Schulz, Luca Giorgetti, Ikuhiro Okamoto, Nicolas Servant, Tristan Piolot, Nynke L van Berkum, Johannes Meisig, John Sedat, Joost Gribnau, Emmanuel Barillot, Nils Blüthgen, Job Dekker, Edith Heard (2011 Oct 3)

**Spatial partitioning of the regulatory landscape of the X-inactivation centre.**

*Nature* : 381-5 : [DOI : 10.1038/nature11049](https://doi.org/10.1038/nature11049)

**Year of publication 2009**

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Laurence Calzone, Laurent Tournier, Simon Fourquet, Denis Thieffry, Boris Zhivotovsky,



Emmanuel Barillot, Andrei Zinovyev (2009 Aug 25)

**Mathematical modelling of cell-fate decision in response to death receptor engagement.**

*PLoS computational biology* : e1000702 : [DOI : 10.1371/journal.pcbi.1000702](https://doi.org/10.1371/journal.pcbi.1000702)

Elisabetta Volpe, Maxime Touzot, Nicolas Servant, Marie-Annick Marloie-Provost, Philippe Hupé, Emmanuel Barillot, Vassili Soumelis (2009 Aug 24)

**Multiparametric analysis of cytokine-driven human Th17 differentiation reveals a differential regulation of IL-17 and IL-22 production.**

*Blood* : 3610-4 : [DOI : 10.1182/blood-2009-05-223768](https://doi.org/10.1182/blood-2009-05-223768)

Jennifer C Chow, Constance Ciaudo, Melissa J Fazzari, Nathan Mise, Nicolas Servant, Jacob L Glass, Matthew Attreed, Philip Avner, Anton Wutz, Emmanuel Barillot, John M Grealley, Olivier Voinnet, Edith Heard (2009 Aug 21)

**LINE-1 activity in facultative heterochromatin formation during X chromosome inactivation.**

*Cell* : 956-69 : [DOI : 10.1016/j.cell.2010.04.042](https://doi.org/10.1016/j.cell.2010.04.042)