



Olivier Delattre Team leader

TEAM DELATTRE

Unit Director

Diversity and Plasticity of Childhood Tumors

Scientific Director

olivier.delattre@curie.fr

Key publications

Year of publication 2020

Marie-Ming Aynaud, Olivier Mirabeau, Nadege Gruel, Sandrine Grossetête, Valentina Boeva, Simon Durand, Didier Surdez, Olivier Saulnier, Sakina Zaïdi, Svetlana Gribkova, Aziz Fouché, Ulykbek Kairov, Virginie Raynal, Franck Tirode, Thomas G P Grūnewald, Mylene Bohec, Sylvain Baulande, Isabelle Janoueix-Lerosey, Jean-Philippe Vert, Emmanuel Barillot, Olivier Delattre, Andrei Zinovyev (2020 Feb 13)

Transcriptional Programs Define Intratumoral Heterogeneity of Ewing Sarcoma at Single-Cell Resolution.

Cell reports : 1767-1779.e6 : [DOI : 10.1016/j.celrep.2020.01.049](https://doi.org/10.1016/j.celrep.2020.01.049)

Year of publication 2019

Simon Durand, Cécile Pierre-Eugène, Olivier Mirabeau, Caroline Louis-Brennetot, Valérie Combaret, Léo Colmet-Daage, Orphée Blanchard, Angela Bellini, Estelle Daudigeos-Dubus, Virginie Raynal, Gudrun Schleiermacher, Sylvain Baulande, Olivier Delattre, Isabelle Janoueix-Lerosey (2019 Aug 28)

ALK mutation dynamics and clonal evolution in a neuroblastoma model exhibiting two ALK mutations.

Oncotarget : 4937-4950 : [DOI : 10.18632/oncotarget.27119](https://doi.org/10.18632/oncotarget.27119)

Morabito Morgane, Larcher Magalie, Cavalli Florence MG, Foray Chloé, Forget Antoine, Mirabal-Ortega Liliana , Andrianteranagna Mamy, Druillennec Sabine, Garancher Alexandra, Masliah-

Diversity and Plasticity of Childhood Tumors (DePiCT)

Planchon Julien, Leboucher Sophie, Debalkew Abel, Raso Alessandro, Delattre Olivier , Puget Stéphanie, Doz François, Taylor Michael D, Ayrault Olivier, Bourdeaut Franck, Eychène Alain & Pouponnot Celio (2019 Jul 22)

An autocrine ActivinB mechanism drives TGFb/Activin signaling in Group3medulloblastoma

EMBO Molecular Medecine : 11 : e9830 : [DOI : 10.15252/emmm.201809830](https://doi.org/10.15252/emmm.201809830)

Year of publication 2018

Watson, S., Perrin, V., Guillemot, D., Reynaud, S., Coindre, J.-M., Karanian, M., Guinebretière, J.-M., Freneaux, P., Le Loarer, F., Bouvet, M., Galmiche-Rolland, L., Larousserie, F., Longchamp, E., Ranchere-Vince, D., Pierron, G., Delattre, O., and Tirode, F (2018 Mar 30)

Transcriptomic definition of molecular subgroups of small round cell sarcomas

The Journal of Pathology : 245 : 29, 40 : [DOI : doi.org/10.1002/path.5053](https://doi.org/10.1002/path.5053)

Lopez-Delisle, L., Pierre-Eugène, C., Louis-Brennetot, C., Surdez, D., Raynal, V., Baulande, S., Boeva, V., Grossetête-Lalami, S., Combaret, V., Peuchmaur, M., Delattre, O., and Janoueix-Lerosey, I (2018 Jan 11)

Activated ALK signals through the ERK-ETV5-RET pathway to drive neuroblastoma oncogenesis

Oncogene : 37 : 1417, 1429 : [DOI : doi.org/10.1038/s41388-017-0039-5](https://doi.org/10.1038/s41388-017-0039-5)

Year of publication 2017

Franzetti GA, Laud-Duval K, van der Ent W, Brisac A, Irondelle M, Aubert S, Dirksen U, Bouvier C, de Pinieux G, Snaar-Jagalska E, Chavrier P, Delattre O, (2017 Jun 22)

Cell-to-cell heterogeneity of EWSR1-FLI1 activity determines proliferation/migration choices in Ewing sarcoma cells.

Oncogene- : [DOI : 10.1038/onc.2016.498](https://doi.org/10.1038/onc.2016.498)

Sheffield NC, Pierron G, Klughammer J, Datlinger P, Schönegger A, Schuster M, Hadler J, Surdez D, Guillemot D, Lapouble E, Freneaux P, Champigneulle J, Bouvier R, Walder D, Ambros IM, Hutter C, Sorz E, Amaral AT, de Álava E, Schallmoser K, Strunk D, Rinner B, Liegl-Atzwanger B, Huppertz B, Leithner A, de Pinieux G, Terrier P, Laurence V, Michon J, Ladenstein R, Holter W, Windhager R, Dirksen U, Ambros PF, Delattre O, Kovar H, Bock C, Tomazou EM. (2017 Mar 23)

DNA methylation heterogeneity defines a disease spectrum in Ewing sarcoma.

Nature Médecine- : [DOI : 10.1038/nm.4273](https://doi.org/10.1038/nm.4273)

Year of publication 2016

Zhi-Yan Han, Wilfrid Richer, Paul Fréneaux, Céline Chauvin, Carlo Lucchesi, Delphine Guillemot, Camille Grison, Delphine Lequin, Gaëlle Pierron, Julien Masliah-Planchon, André Nicolas,

Diversity and Plasticity of Childhood Tumors (DePiCT)

Dominique Ranchère-Vince, Pascale Varlet, Stéphanie Puget, Isabelle Janoueix-Lerosey, Olivier Ayrault, Didier Surdez, Olivier Delattre, Franck Bourdeaut (2016 Jan 29)

The occurrence of intracranial rhabdoid tumours in mice depends on temporal control of Smarcb1 inactivation.

Nature communications : 10421 : [DOI : 10.1038/ncomms10421](https://doi.org/10.1038/ncomms10421)

Year of publication 2015

Grünewald TG, Bernard V, Gilardi-Hebenstreit P, Raynal V, Surdez D, Aynaud MM, Mirabeau O, Cidre-Aranaz F, Tirode F, Zaidi S, Perot G, Jonker AH, Lucchesi C, Le Deley MC, Oberlin O, Marec-Bérard P, Véron AS, Reynaud S, Lapouble E, Boeva V, Rio Frio T, Alonso J, Bhatia S, Pierron G, Cancel-Tassin G1, Cussenot O1, Cox DG, Morton LM Machiela MJ, Chanock SJ, Charnay P, Delattre O. (2015 Sep 1)

Chimeric EWSR1-FLI1 regulates the Ewing sarcoma susceptibility gene EGR2 via a GGAA microsatellite.

Nature genetics : 47 : 1073-8 : [DOI : 10.1038/ng.3363](https://doi.org/10.1038/ng.3363)

Angela Bellini, Virginie Bernard, Quentin Leroy, Thomas Rio Frio, Gaelle Pierron, Valérie Combaret, Eve Lapouble, Nathalie Clement, Herve Rubie, Estelle Thebaud, Pascal Chastagner, Anne Sophie Defachelles, Christophe Bergeron, Nimrod Buchbinder, Sophie Taque, Anne Auvrignon, Dominique Valteau-Couanet, Jean Michon, Isabelle Janoueix-Lerosey, Olivier Delattre, Gudrun Schleiermacher (2015 Feb 20)

Deep Sequencing Reveals Occurrence of Subclonal ALK Mutations in Neuroblastoma at Diagnosis.

Clinical cancer research : an official journal of the American Association for Cancer Research : 4913-21 : [DOI : 10.1158/1078-0432.CCR-15-0423](https://doi.org/10.1158/1078-0432.CCR-15-0423)

Thomas F Eleveld, Derek A Oldridge, Virginie Bernard, Jan Koster, Leo Colmet Daage, Sharon J Diskin, Linda Schild, Nadia Bessoltane Bentahar, Angela Bellini, Mathieu Chicard, Eve Lapouble, Valérie Combaret, Patricia Legoix-Né, Jean Michon, Trevor J Pugh, Lori S Hart, JulieAnn Rader, Edward F Attiyeh, Jun S Wei, Shile Zhang, Arlene Naranjo, Julie M Gastier-Foster, Michael D Hogarty, Shahab Asgharzadeh, Malcolm A Smith, Jaime M Guidry Auvil, Thomas B K Watkins, Danny A Zwijnenburg, Marli E Ebus, Peter van Sluis, Anne Hakkert, Esther van Wezel, C Ellen van der Schoot, Ellen M Westerhout, Johannes H Schulte, Godelieve A Tytgat, M Emmy M Dolman, Isabelle Janoueix-Lerosey, Daniela S Gerhard, Huib N Caron, Olivier Delattre, Javed Khan, Rogier Versteeg, Gudrun Schleiermacher, Jan J Molenaar, John M Maris (2015 Jan 15)

Relapsed neuroblastomas show frequent RAS-MAPK pathway mutations.

Nature genetics : 864-71 : [DOI : 10.1038/ng.3333](https://doi.org/10.1038/ng.3333)

Diversity and Plasticity of Childhood Tumors (DePiCT)**Year of publication 2014**

Franck Tirode, Didier Surdez, Xiaotu Ma, Matthew Parker, Marie Cécile Le Deley, Armita Bahrami, Zhaojie Zhang, Eve Lapouble, Sandrine Grossetête-Lalami, Michael Rusch, Stéphanie Reynaud, Thomas Rio-Frio, Erin Hedlund, Gang Wu, Xiang Chen, Gaëlle Pierron, Odile Oberlin, Sakina Zaidi, Gordon Lemmon, Pankaj Gupta, Bhavin Vadodaria, John Easton, Marta Gut, Li Ding, Elaine R Mardis, Richard K Wilson, Sheila Shurtleff, Valérie Laurence, Jean Michon, Perrine Marec-Bérard, Ivo Gut, James Downing, Michael Dyer, Jinghui Zhang, Olivier Delattre, (2014 Sep 15)

Genomic landscape of Ewing sarcoma defines an aggressive subtype with co-association of STAG2 and TP53 mutations.

Cancer discovery : 1342-53 : [DOI : 10.1158/2159-8290.CD-14-0622](https://doi.org/10.1158/2159-8290.CD-14-0622)

Year of publication 2012

Tatiana Popova, Elodie Manié, Guillaume Rieunier, Virginie Caux-Moncoutier, Carole Tirapo, Thierry Dubois, Olivier Delattre, Brigitte Sigal-Zafrani, Marc Bollet, Michel Longy, Claude Houdayer, Xavier Sastre-Garau, Anne Vincent-Salomon, Dominique Stoppa-Lyonnet, Marc-Henri Stern (2012 Aug 29)

Ploidy and large-scale genomic instability consistently identify basal-like breast carcinomas with BRCA1/2 inactivation.

Cancer research : 5454-62 : [DOI : 10.1158/0008-5472.CAN-12-1470](https://doi.org/10.1158/0008-5472.CAN-12-1470)

Gaëlle Pierron, Franck Tirode, Carlo Lucchesi, Stéphanie Reynaud, Stelly Ballet, Sarah Cohen-Gogo, Virginie Perrin, Jean-Michel Coindre, Olivier Delattre (2012 Mar 4)

A new subtype of bone sarcoma defined by BCOR-CCNB3 gene fusion.

Nature genetics : 461-6 : [DOI : 10.1038/ng.1107](https://doi.org/10.1038/ng.1107)

Sophie Postel-Vinay, Amélie S Véron, Franck Tirode, Gaëlle Pierron, Stéphanie Reynaud, Heinrich Kovar, Odile Oberlin, Eve Lapouble, Stelly Ballet, Carlo Lucchesi, Udo Kontny, Anna González-Neira, Piero Picci, Javier Alonso, Ana Patino-Garcia, Brigitte Bressac de Paillerets, Karine Laud, Christian Dina, Philippe Froguel, Françoise Clavel-Chapelon, Francois Doz, Jean Michon, Stephen J Chanock, Gilles Thomas, David G Cox, Olivier Delattre (2012 Feb 12)

Common variants near TARDBP and EGR2 are associated with susceptibility to Ewing sarcoma.

Nature genetics : 323-7 : [DOI : 10.1038/ng.1085](https://doi.org/10.1038/ng.1085)

Year of publication 2008

Isabelle Janoueix-Lerosey, Delphine Lequin, Laurence Brugières, Agnès Ribeiro, Loïc de Pontual, Valérie Combaret, Virginie Raynal, Alain Puisieux, Gudrun Schleiermacher, Gaëlle Pierron, Dominique Valteau-Couanet, Thierry Frebourg, Jean Michon, Stanislas Lyonnet, Jeanne Amiel,



Team Members
Diversity and Plasticity of Childhood Tumors (DePiCT)

Olivier Delattre (2008 May 26)

Somatic and germline activating mutations of the ALK kinase receptor in neuroblastoma.

Nature : 967-70 : [DOI : 10.1038/nature07398](https://doi.org/10.1038/nature07398)