

## Publications

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2021

**Circulating tumor DNA is a prognostic marker of tumor recurrence in stage II and III colorectal cancer: multicentric, prospective cohort study (ALGECOLS).** Benhaim, L., Bouché, O., Normand, C., Didelot, A., Mulot, C., Le Corre, D., Mallet, K., Garrigou, S., Pekin, D., Hor, T., El Harrak, Z., Niarra, R., Aucouturier, P., Perez-Toralla, K., Nizard, P., Poulet, G., Landi, B., Taieb, J., Perkins, G., Pezet, D., Bibeau, F., Emile, JF, Berger, A., Lecomte, T., Di Fiore, F., Pezet, D., Bibeau, F., Blons, H., Zaan, A., Chatellier, G., Hutchison, B., Link, D., Wang-Renault, S., Laurent-Puig, P.\*, Taly, V.\* *European Journal of Cancer*.

**Role of circulating tumor DNA in gastrointestinal cancers: current knowledge and perspectives.** Moati, E., Taly, V., Taieb, J., Laurent-Puig, P., Zaan, A. *Cancers* (2021), 13(19):4743.

**Technological Advances for Tumor-On-Chip: From Bench to Bedside.** Santa Berzina<sup>1</sup> #, Alexandra Harrison<sup>1</sup> #, Wenjin Xiao<sup>1</sup>\* and Valérie Taly<sup>1</sup>\*. *Cancers* (2021), 13(16):4192.

**Intratumor CMS heterogeneity impacts patient prognosis in localized colon cancer.** Marisa, L., Blum, Y., Taieb, J., Ayadi, M., Pilati, C., Le Malicot, K., Lepage, C., Salazar, R., Aust, D., Duval, A., Blons, H., Taly, V., Gentien, D., Rapinat, A., Selves, J., Mouillet-Richard, S., Boige, V., Emile, J-F., de Reyniès, A., Laurent-Puig P. *Clinical cancer research* (2021), 27(17):4768-4780.

**Detection of brain somatic mutations in CSF from refractory epilepsy patients.** S. Kim, S. Baldassari, N. Suk Sim, M. Chipaux, G. Dorfmueller, D. Seok Kim, W. Seok Chang, V. Taly, J. Ho Lee, S. Baulac.\* *Annals of Neurology* (2021), 89(6):1248-1252.

**Prognostic value and relation with adjuvant treatment duration of ctDNA in stage III colon cancer: a post hoc analysis of the PRODIGE-GERCOR IDEA-France trial.** J. Taieb, V. Taly, J. Henriques, C. Bourdeau, L. Mineur, J. Bennouna, J. Desrame, C. Louvet, C. Lepere, O. Dupuis, M. Mabro, J. Egreteau, O. Bouche, C. Mulot, M. Ychou, A. de Gramont, D. Vernerey, T. André, P. Laurent-Puig\*. doi: 10.1158/1078-0432.CCR-21-0271. Online ahead of print.

**Characterization of plasma cell free DNA integrity using picoliter-droplet digital PCR: towards the development of a circulating tumor DNA - dedicated assay.** F. Garlan#, G. Poulet#, A. Didelot, S. Garrigou, M.-J. Carrillon, E. Zonta, P. Nizard, D. Pietrasz, J. Pacelli, F. Ginot, A. Boutonnet-Rodat, L. Jagot-Lacoussière, Q. Tavernier, C. Mulot, N. Pecuchet, H. Blons, P. Laurent-Puig, A. Zaan, S. Wang-Renault\*, V. Taly\*. *Frontiers in oncology, section Molecular and cellular oncology*, 2021, 11:639675.

**Usefulness of plasma SARS-CoV-2 RNA quantification by droplet-based digital PCR to monitor treatment against COVID-19.** T-A Szwed, D. Veyer, N. Robillard, D. Eshagh, E. Canoui, T. Bruneau, A. Contejean, C. Azoulay, T. Serrano, T. Hueso, L. Izquierdo, F. Rozenberg, B. Terrier, M. Vignon, P. Laurent-Puig, V. Taly, L. Bélec, S. Kernéis, K. Lacombe, H. Péré. *Stem Cell Rev Rep*. 2021 Jan 5;1-4. doi: 10.1007/s12015-020-10107-5.

**Multiplexed microRNA detection methods for disease monitoring.** T. Jet, G. Gines, Y. Rondelez\* and V. Taly\*. *Chemical Society Reviews*, 2021, 50, 4141 - 4161

2020

**Highly sensitive quantification of plasma SARS-CoV-2 RNA sheds light on its potential clinical value.** D. Veyer, S. Kernéis, G. Poulet, M. Wack, N. Robillard, V. Taly, A.-S. L'Honneur, F. Rozenberg, P. Laurent-Puig, L. Bélec, J. Hadjadj, B. Terrier, H. Péré. *Clinical Infectious Diseases*, (2020), ciaa1196, doi: 10.1093/cid/ciaa1196.

**The digital MIQE guidelines update: minimum information for publication of quantitative digital PCR experiments for 2020 (dMIQE2020).** J. F. Huggett, A. S. Whale, W. De Spiegelaere, W. Trypsteen, A. A. Nour, Y.-K. Bae, V. Benes, D. G. Burke, Philippe Corbisier, Megan Cleveland, Alison S Devonshire, Iianhua DONG, Deniela Drandi, Carole Foy, J. A. Garson, J. Hellemans, H.-J. HE, M. Kubista, A. Lievens, M. Makrigiorgos, M. Milavec, R. D. Mueller, T. Nolan, D. O'Sullivan, M. W. Pfaffl, S. Roediger, E. Romsos, G. Shipley, V. Taly, A. Untergasser, C. Wittwer, S. Bustin, and J. Vandesompele. *Clinical Chemistry*, (2020), 66(8): 1012-1029.

**Plasma circulating tumor DNA in pancreatic adenocarcinoma for screening, diagnosis, prognosis, treatment and follow-up: A Systematic Review.** R. Abdallah, V. Taly, S. Zhao, D. Pietrasz, J. B. Bachet, D. Basile, L. Mas, A. Zaanani, P. Laurent-Puig, J. Taieb\*. *Cancer Treatment Reviews*, (2020), 87 ; 102028.

**Decision for adjuvant treatment in stage II colon cancer based on circulating tumor DNA: The CIRCULATE - PRODIGE 70 trial.** J. Taïeb, L. Benhaim, P. Laurent Puig, K. Le Malicot, JF Emile, F. Geillon, D. Tougeron, S. Manfredi, M. Chauvenet, V.Taly, C. Lepage\* & T. André\*. *Digestive and Liver Disease*, 52(7) : 730-733.

**Mechanical characterization of cells and microspheres sorted by acoustophoresis with in-line resistive pulse sensing.** A Riaud\*, ALP Thai, W Wang, V Taly. arXiv preprint Submitted on 24 Jun 2019, arXiv:1906.11944 – *Physical Review Applied* (2019) 13 (3), 034058

**Isothermal digital detection of microRNAs using background-free molecular circuit.** G. Gines\*, R. Menezes\*, N. Kaori, A-S. Kirstetter, V. Taly\* and Y. Rondelez\*. *Science Advances* (2020), 6(4):eaay5952. doi: 10.1126/sciadv.aay5952. IF: 12.8. Press release: <https://www.espci.psl.eu/en/news/2020/dna-nanotechnology-to-detect-cancer-biomarkers>

**[Development of molecular analysis by digital PCR for clinical practice: positioning, current applications and perspectives.]** J.A. Denis, A. Perrier, J. Nectoux, P.-J. Lamy, A-S. Alary, N. Sarafan-Vasseur, D. Hennaff, B. Busser, R. Appay, P. Pedini, P. Romanet, V. Taly, F. Fina. For the working group of the french society of clinical biology “digital PCR”. *Annales de biologie clinique* (2019), Review in French, *Annales de biologie clinique* (2019), 77(6):619-637. IF: 0.5.

**Streamlined digital bioassays with a 3D-printed sample changer.** Menezes, R., Dramé-Maigné, A., Taly, V., Rondelez, Y., Gines, G.\*. *AAAnalyst* (2020), 145(2):572-581. doi: 10.1039/c9an01744e. IF: 3.86

2019

**Emerging technologies for microRNA biosensing: applications to liquid biopsies.** Gines, G., Menezes, R., Xiao, W., Rondelez, Y. and Taly, V.\*. *Molecular Aspects of medicine* (2019), *in press*. Invited review. IF: 10.23

**HPV circulating tumoral DNA quantification by droplet-based digital PCR: a promising predictive and prognostic biomarker for HPV-associated oropharyngeal cancers.** D. Veyer, M. Wack, M. Mandavit, S. Garrigou, S. Hans, P. Bonfils, L. Belec, S. Wang-Renault, P. Laurent-Puig, H. Mirghani, B. Rance, V. Taly, C. Badoual, H. Péré. *International Journal of Cancer* (2019), *in press*. IF: 7.36

**Plasma clearance of RAS mutation under therapeutic pressure is a rare event in metastatic colorectal cancer.** E. Moati, H. Blons, V. Taly, F. Garlan, S. Wang-Renault, D. Pietrasz, A. Didelot, G. Sonia, A. Saint, S. Pernot, J. Taieb, P.

Laurent-Puig, A. Zaanani\*. International Journal of Cancer (2019), Doi: 10.1002/ijc.32657. [Epub ahead of print] IF: 7.36

**Mechanical characterization of cells and microspheres sorted by acoustophoresis with in-line resistive pulse sensing.** A Riaud\*, ALP Thai, W Wang, V Taly. arXiv preprint posted online Jun 2019, arXiv:1906.11944

**BRAF mutation analysis in circulating tumor DNA from patients with metastatic colorectal cancer: complementary results from the AGEO RASANC study.** L. Mas, J-B. Bachet, V. Taly, O. Bouche, J. Taieb, R. Cohen, A. Meurisse, C. Normand, J-M. Gornet, P. Artru, S. Louafi, A. Thiot-bidault, I. Baumgaertner, R. Coriat, D. Tougeron, T. Lecomte, F. Mary, T. Aparicio, L. Marthey, H. Blons, D. Vernerey, P. Laurent-Puig\*. Cancers (2019), 11(7). pii: E998. IF: 5.326

**Digital PCR: principle and applications.** Poulet G. and Taly V. Onco-theranostic (2019), Invited review in French, In press.

**Vemurafenib in refractory multisystem Langerhans cell histiocytosis (LCH) of children: results of an international observational study.** J. Donadieu, I. A. Larabi, M. Tardieu, J. Visser, H. Caroline, E. Sieni, N. Kabbara, M. Barkaoui, P. Milne, J. Haroche, Z. Helias, M. Jehanne, A. Kolenova, A. Pagnier, N. Aladjidi, P. Schneider, G. Plat, A. Lutun, A. Heisig, A. Ferster, V. Efremova, M. Ahlmann, L. Blanc, J. Nicholson, A. Lambilliotte, H. Boudiaf, A. Lissat, K. Svojr, F. Bernard, S. Elitzur, M. Golan, D. Evseev, M. Maschan, A. Idbaih, O. Slater, M. Minkow, V. Taly, M. Collin, J-C. Alvarez, J-F. Emile, S. Héritier\*. Journal of Clinical Oncology (2019). In press. IF: 26.3

**Tunable and reversible gelatin-based bonding for microfluidic cell culture.** G. Pitingolo\*, P. Nizard, A. Riaud and V. Taly\*. Advanced Engineering Materials (2019). 1900145. IF: 2.360

**Gelatin Coated Microfluidic Channels for 3D Microtissue Formation: on-Chip Production and Characterization.** G. Pitingolo\*, P. Nizard, A. Riaud, C. Nastruzzi and V. Taly\*. Micromachines (2019),10(4). IF: 1.8

**Coins in microfluidics: from mere scale objects to font of inspiration for microchannel circuits.** G. Pitingolo\*, V. Taly and C. Nastruzzi. Biomicrofluidics (2019), 13(2):024106. IF: 2.57

**Liquid biopsy: general concepts.** G. Poulet, J. Massias and V. Taly. Invited review, Acta cytologica (2019), pp. 1-7. IF: 0.88

**HPV-circulating tumoural DNA by droplet-based digital polymerase chain reaction, a new molecular tool for early detection of HPV metastatic anal cancer? A case report.** D. Veyer, J. Pavie, S. Pernot, M. Mandavit, S. Garrigou, M-L. Lucas, L. Gibault, V. Taly, L. Weiss, H. Péré. European journal of cancer (2019), 112:34-37. IF: 5.4

**Microfluidic extraction of circulating tumor DNA for the sensitive detection and quantification of rare mutations.** K. Perez-Toralla, I. Pereiro, J. Champ, F. Faqir, P. Nizard, L. Malaquin, J-L. Viovy, V. Taly\* and S. Descroix\*. Sensors and Actuators B: Chemical (2019), 286: 533-539. IF: 6.393

**Highly sensitive methods are required to detect mutations in histiocytoses.** S. Melloul, Z. Hélias-Rodzewicz, F. Cohen-Aubart, F. Charlotte, S. Fraitag, N. Terrones, Q. Riller, T. Chazal, S. Heritier, A. Moreau, M. Kambouchner, MC. Copin, J. Donadieu, V. Taly, Z. Amoura, J. Haroche, JF Emile. Haematologica (2019), 104(3): e97-e99. IF: 9.09

## 2018

**Beyond the on/off chip trade-off: A reversibly sealed microfluidic platform for 3D tumor microtissue analysis.** G. Pitingolo\*, P. Nizard, A. Riaud and V. Taly\*. Sensors and Actuators B: Chemical (2018), 274: 393-401.

**Incidence and risk factors for clinical neurodegenerative Langerhans cell histiocytosis: a longitudinal cohort study.** S. Héritier, M-A. Barkaoui, J. Miron, C. Thomas, D. Moshous, A. Lambilliotte, F. Mazingue, K. Kebaili, E. Jeziorski, G. Plat, N. Aladjidi, H. Pacquement, C. Galambrun, L. Brugières, G. Leverger, L. Mansuy, C. Paillard, A. Deville, A. Pagnier, A. Lutun, M. Gillibert-Yvert, J-L. Stephan, F. Cohen-Aubart, J. Haroche, I. Pellier, F. Millot, V. Gandemer, N. Martin-Duverneuil, V. Taly, Z. Hélias-Rodzewicz, J-F. Emile, K. Hoang-Xuan, A. Idbaih, J. Donadieu\*. The British journal of haematology (2018), 183(4): 608-617.

**High throughput multiplexed fluorescence activated droplet sorting.** Ouriel Caen, Simon Schuetz, Mani Jammalamadaka, Jeremy Vrignon, Philippe Nizard, Tobias Schneider, Jean-Christophe Baret\* and Valérie Taly\* Microsystems & Nanoengineering (Recent journal of Nature group) (2018), UNSP 33.

**[Development of digital PCR molecular tests for clinical practice: principles, practical implementation and recommendations.]** J.A. Denis, J. Nectoux, P-J. Lamy, C. Rouillac Le Sciellour, H. Guermouche, A-S. Alary, O. Kosmider, N. Sarafan-Vasseur, C. Jovelet, B. Busser, P. Nizard, V. Taly, F. Fina. For the working group of the french society of clinical biology "digital PCR". Annales de biologie clinique (2018), Review in French, *in press*.

**BRAF V600E mutation detected in a case of Rosai-Dorfman disease.** G. Fatobene, J. Haroche, Z. Hélias-Rodzwicz, F. Charlotte, V. Taly, A. Meneses Ferreira, A. Néder Ramires Abdo, V. Rocha, J-F. Emile\*. Haematology (2018), *In press*. [Link](#)

**Assessment of Digital PCR as a Primary Reference Measurement Procedure to Support Advances in Precision Medicine.** AS Whale, GM Jones, J. Pavši, T. Dreo, N. Redshaw, S. Akyürek, M. Akgoz, C. Divieto, M.P. Sassi, H-J. He, K. D. Cole, Y-K. Bae, (...), L. Deprez, P. Corbisier, S. Garrigou, V. T., R. Larios, S. Cowen, D. M. O'Sullivan, C. A. Bushell, H. Goenaga-Infante, H. Parkes, C. A. Foy, A. J. Woolford, J. F. Huggett\*, A. S. Devonshire\*. Clinical Chemistry (2018), *In press*. [Link](#)

**Chips and Tips: A second life for old electronic parts: a spin coater for microfluidic applications.** Pitingolo, G., Taly, V. and Nastruzzi, C. Lab on Chip (2018)

**Role of circulating tumor DNA in the management of patients with colorectal cancer.** Moati, E., Taly, V., Didelot, A., Perkins, G., Blons, H., Taieb, J., Laurent-Puig, P., Zaanani, A\*. (Review) Clinics and research in hepatology and gastroenterology. (2018), *In press*. [Link](#)

**Mutation and methylation analysis of circulating tumor DNA can be used for the follow-up of metastatic colorectal cancer patients.** N. Boeckx, K. Op de Beeck, M. Beyens, V. Deschoolmeester, C. Hermans, P. Declercq, K. Papadimitriou, P. Laurent-Puig, P. Pauwels, Guy Van Camp\*, V. Taly\*, M. Peeters\*. Colorectal Cancer (2018), 7(2):e369-e379. [Link](#)

**BIABooster: Online DNA Concentration and Size Profiling with a Limit of Detection of 10 fg/L and Application to High-Sensitivity Characterization of Circulating Cell-Free DNA.** CL. Andriamanampisoa, A. Bancaud, A. Boutonnet-Rodat, A. Didelot, J. Fabre, F. Fina, F. Garlan, S. Garrigou, C. Gaudy, F. Ginot\*, D. Henaff, P. Laurent-Puig, A. Morin, V. Picot, L. Saias, V. Taly, P. Tomasini, A. Zaanani. Analytical Chemistry (2018), 90(6): 3766-3774. [Link](#)

**RAS mutation analysis in circulating tumor DNA from patients with metastatic colorectal cancer: the AGEORASANC prospective multicenter study.** J. B. Bachet, O. Bouché, J. Taieb, O. Dubreuil, M. L. Garcia, A. Meurisse, C. Normand, J. M. Gornet, P. Artru, S. Louafi, F. Bonnetain, A. Thiot-Bidault, I. Baumgaertner, R. Coriat, D. Tougeron, T. Lecomte, F. Mary, T. Aparicio, L. Marthey, V. Taly, H. Blons, D. Vernerey, P. Laurent-Puig\*. Annals of oncology (2018), 29(5):1211-1219. [Link](#)

**Phenotypes and survival in Erdheim-Chester disease: Results from a 165-patient cohort.** American Journal of Hematology (2018), 93(5): E114-E117. [Link](#)

## 2017

**Droplet-based digital PCR and Next generation sequencing for monitoring circulating tumor DNA: a cancer diagnostic perspective.** M. Postel#, A. Roosen #, P. Laurent-Puig, V. Taly\* S. Wang-Renault\*. Expert Review of Molecular Diagnostics (2017), 18(1):7-17. [Link](#)

**Massively parallel and multiparameter titration of biochemical assays with droplet microfluidics.** S. Okumura, A. Baccouche, R. Sieskind, E. Henry, N. Aubert-Kato, N. Bredeche, J. F. Bartolo, V. Taly, Y. Rondelez, T. Fujii & A. J. Genot\*. Nature Protocols (2017), 12(9):1912-1932. [Link](#)

**Microfluidics as a strategic player to decipher single-cell omics?** H. Lu, O. Caen, P. Nizard, V. Taly\*. Trends in

Biotechnology (2017), 35(8):713-727. [Link](#)

**Functional Evidence for Derivation of Systemic Histiocytic Neoplasms from Hematopoietic Stem/Progenitor Cells.** B. H Durham, D. Roos-Weil, C. Baillou, F. Cohen-Aubart, A. Yoshimi, M. Miyara, M. Papo, Z. Hélias-Rodzewicz, N. Terrones, N. Ozkaya, A. Dogan, R. Rampal, F. Urbain, L. Le Fèvre, E. L Diamond, C. Y Park, T. Papo, F. Charlotte, G. Gorochoy, **V. Taly**, O. Bernard, Z. Amoura, O. Abdel-Wahab, F. M Lemoine, J. Haroche, and J-F. Emile\*. *Blood* (2017), 1130(2):176-180. [Link](#)

**Early evaluation of circulating tumor DNA as marker of therapeutic efficacy in metastatic colorectal cancer patients (PLACOL study).** F. Garlan, P. Laurent-Puig\*, N. Siauve, A. Didelot, G. Perkins, H. Blons, J. Taieb, V. Taly\* and A. Zaanan. *Clinical Cancer Research* (2017), In press. doi: 10.1158/1078-0432.CCR-16-3155. [Link](#)

**High-throughput cell counting using droplet-based microfluidics.** H. Lu, O. Caen, J. Vrignon, P. Nizard, J-C. Baret, V. Taly\*. *Scientific reports* (2017), 7(1):1366. [Link](#)

**Circulating cell-free BRAFV600E as a biomarker in children with Langerhans cell histiocytosis.** Héritier S, Hélias-Rodzewicz Z, Lapillonne H, Terrones N, Garrigou S, Normand C, Barkaoui MA, Miron J, Plat G, Aladjidi N, Pagnier A, Deville A, Gillibert-Yvert M, Moshous D, Lefèvre-Utile A, Lutun A, Paillard C, Thomas C, Jeziorski E, Nizard P, Taly V, Emile JF, Donadieu J.\* *Br J Haematol.* (2017), 178(3):457-467. doi: 10.1111/bjh.14695. [Link](#).

**Circulating tumor DNA Measurement by Picoliter droplet-based digital PCR and vemurafenib plasma concentrations in patients with advanced BRAF-mutated melanoma.** Garlan F, Blanchet B, Kramkimel N, Puszkiel A, Golmard JL, Noe G, Dupin N, Laurent-Puig P, Vidal M, Taly V and Thomas-Schoemann A.\* *Targeted Oncology* (2017), 12(3): 365-371. [Link](#)

**A novel low cost method to prepare a cross-linked gelatin membrane for potential biological applications.** Pitingolo, G.\* and Taly, V. *Lab on Chip, Chips and Tricks.* (2017). [Link](#)

**Droplet-Based Digital PCR: Application in Cancer Research.** Perkins G, Lu H, Garlan F, Taly V.\* *Adv Clin Chem.* (2017), 79:43-91. [Link](#)

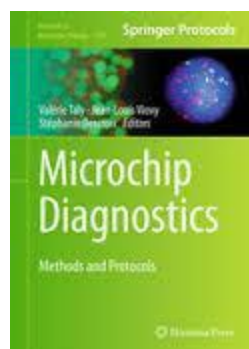
**Droplet-based Microfluidics digital PCR for the detection of KRAS mutations.** Pekin D, Taly V.\* *Methods Mol Biol.* (2017), 1547:143-164. [Link](#).

**Multiplex detection of KRAS mutations using passive droplet fusion.** Pekin D, Taly V.\* *Methods Mol Biol.* (2017), 1547:133-142. [Link](#).

**Plasma Circulating Tumor DNA in Pancreatic Cancer Patients is a Prognostic Marker.** Pietrasz D, Pécuchet N, Garlan F, Didelot A, Dubreuil O, Doat S, Imbert-Bismut F, Karoui M, Vaillant JC, Taly V, Laurent-Puig P, Bachet JB.\* *Clin Cancer Res.* (2017), 23(1):116-123. [Link](#)

#### **Edited Book:**

**Microchip Diagnostics.** *Methods in Molecular Biology. Methods and Protocols.* Editors: Taly, Valérie, Viovy, Jean-Louis, Descroix, Stéphanie (Eds.) [Link](#).



2016

**Base-Position Error Rate Analysis of Next-Generation Sequencing Applied to Circulating Tumor DNA in Non-Small Cell Lung Cancer: A Prospective Study.** Pécuchet N, Zonta E, Didelot A, Combe P, Thibault C, Gibault L, Lours C, Rozenholc Y, Taly V, Laurent-Puig P, Blons H, Fabre E. *PLoS Med.* (2016), 13(12):e1002199. [Link](#).

**Editorial : Digital PCR, a technique for the future.** Taly, V. and Huggett, J. *Biomol Detect Quantif.* (2016),10:1. [Link](#).

**Germline and somatic mutations in MTOR gene in focal epilepsies with and without brain malformations.** R. S. Møller\*, S. Weckhuysen, M. Chipaux, E. Marsan, V. Taly, E. M. Bebin, S. Hiatt M, K. M. Bowling, D. Mei, V. Conti, P. de la Grange, S. Ferrand-Sorbets, G. Dorfmueller MD, V. Lambrecq, L. HG Larsen, E. Leguern, R. Guerrini, G. Rubboli, G.M. Cooper and S. Baulac. *Neurology: Genetics* (2016), 2:e118. [Link](#).

**Analysis of Base-Position Error Rate of Next-Generation Sequencing to Detect Tumor Mutations in Circulating DNA.** Pécuchet N, Rozenholc Y, Zonta E, Pietraz D, Didelot A, Combe P, Gibault L, Bachet JB, Taly V, Fabre E, Blons H, Laurent-Puig P.\* *Clinical Chemistry* (2016), 62(11):1492-1503. *Pubmed*. [Epub ahead of print]  
*University Paris Descartes/AP-HP/CNRS/INSERM Press releases.*

**Multiplex detection of rare mutations by picoliter droplet based digital PCR : sensitivity and specificity considerations.** E. Zonta, F. Garlan, N. Pecuchet, K. Perez-Toralla, C. Milbury, A. Didelot, O. Caen, H. Blons, E. Fabre, P. Laurent-Puig, V. Taly\*. *Plos One* (2016), 11(7):e0159094. [Journal Link](#).

**BRAF mutation correlates with High-Risk Langerhans Cell Histiocytosis and increased resistance to first-line therapy.** S. Héritier, J-F. Emile, M. Aziz-Barkaoui, C. Thomas, S. Fraitag, S. Boudjemaa, F. Renaud, A. Moreau, M. Peuchmaur, C. Chassagne-Clément, F. Dijoud, V. Rigau, D. Moshous, A. Lambilliotte, F. Mazingue, K. Kebaili, J. Miron, E. Jeziorski, G. Plat, N. Aladjidi, A. Ferster, H. Pacquement, C. Galambrun, L. Brugières, G. Leverger, L. Mansuy, C. Paillard, A. Deville, C. Armari-Alla, A. Lutun, M. Gillibert-Yvert, J-L Stephan, F. Cohen-Aubart, J. Haroche, I. Pellier, F. Millot, B. Lescoeur, V. Gandemer, C. Bodemer, R. Lacave, Z. Hélias-Rodzewicz, V. Taly, F. Geissmann, and J. Donadieu\*. *Journal of Clinical Oncology*, (2016), 34(25):3023-30. *Pubmed*.

**High-resolution mapping of bifurcations in nonlinear DNA circuits.** A.J. Genot, A. Baccouche, R. Sieskind, N. Aubert-Kato, N. Bredeche, J.F. Bartolo, V. Taly, T. Fujii, Y. Rondelez. *Nature Chemistry* (2016), 8(8):760-7. *Pubmed*.

**A Study of Hypermethylated Circulating Tumor DNA as a Universal Colorectal Cancer Biomarker.** S. Garrigou, G. Perkins, F. Garlan, C. Normand, A. Didelot, D. Le Corre, S. Peyvandi, C. Mulot, R. Niarra, P. Aucouturier, G. Chatellier, P. Nizard, K. Perez-Toralla, E. Zonta, C. Charpy, A. Pujals, C. Barau, O. Bouché, J.-F. Emile, D. Pezet, F. Bibeau, J. B. Hutchison, D. R. Link, A. Zaanani, P. Laurent-Puig, I. Sobhani and V. Taly\*. *Clinical Chemistry* (2016), 62(8):1129-39. *Pubmed*.  
*University Paris Descartes/CNRS/INSERM Press release.*  
*Inserm Press release (english)*

2015

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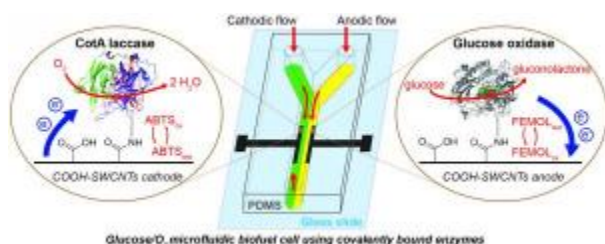
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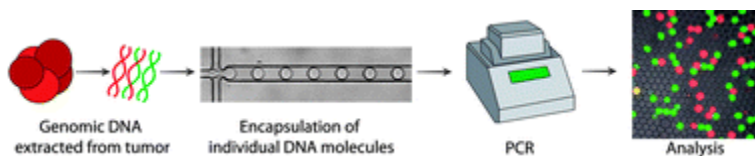
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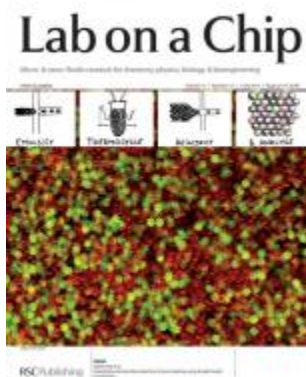
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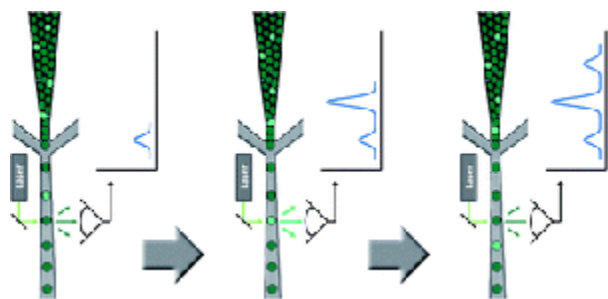


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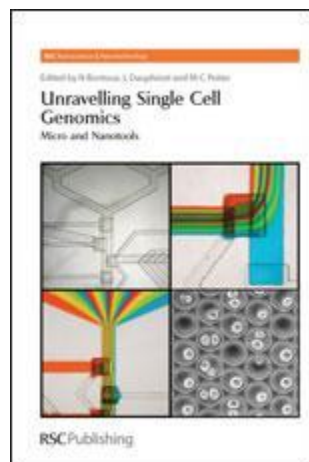
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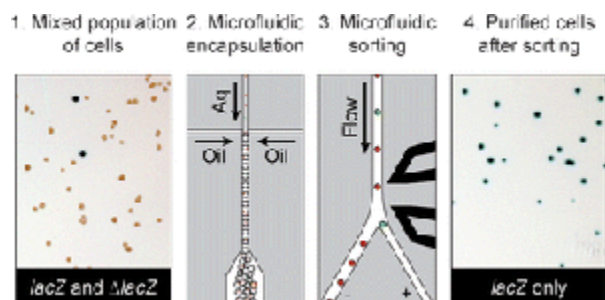


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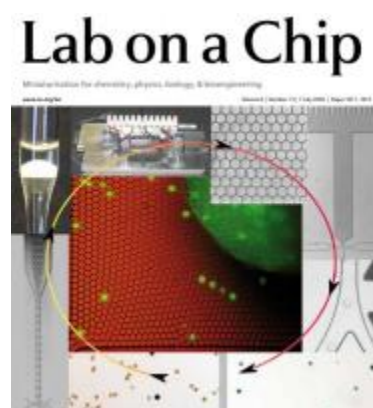
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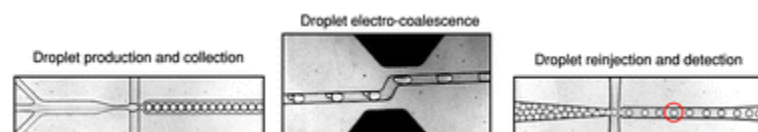


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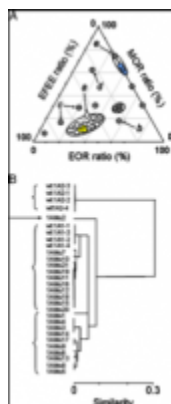
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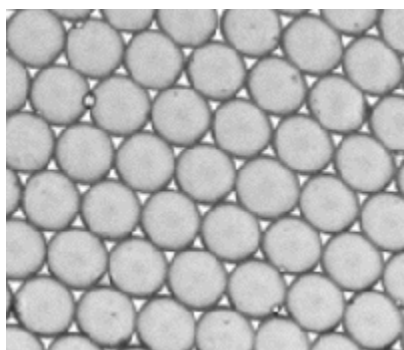
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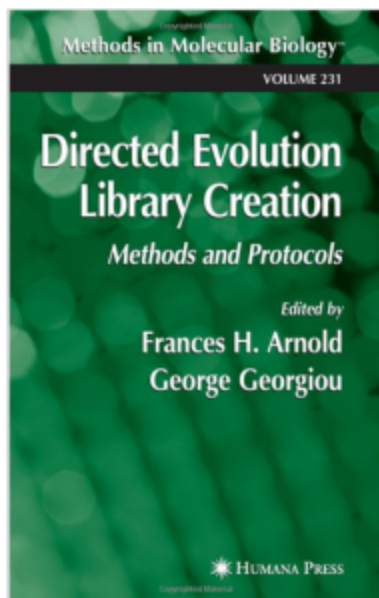
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