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List of Selected Peer Reviewed Publications

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Early ctDNA decrease predicts survival outcomes in MSI-H Metastatic Colorectal Cancer treated with immunotherapy. Taieb, J., Giulio Sullo, F., Lecanu, A., Bourreau, C., Barbier, E., Gandini, A., Bez, J., Mulot, C., Di Fiore, F., Helajbi, F., Borg, C., Bouché, O., Zaanan, A., André, T., Tougeron, D., Taly, V., Laurent-Puig, P. *JAMA oncology* (2025), accepted.

Identification of a very-high risk subgroup of localized endometrial carcinoma before surgery using circulating tumor DNA: a proof-of-concept study. Gaudet-Chardonnet, A., Borghese, Alexandre, J., Richard, C., Métairie, L., Reilhac, A., Kime, A., Garinet, S., Parfait, B., Didelot, A., Bourreau, C., Mulot, C., Abdelli, J., de Percin, S., Durdux, C., Chapron, C., Goldwasser, F., Laurent-Puig, P., Taly, V., Beinse, G. *International Journal of Gynecological Cancer* (2025), accepted.

Digital Droplet PCR Assay for Detection and Monitoring of Universally Methylated Circulating Tumor DNA in High-Grade Sarcoma Patients. Ashton, E., Taly, V.*, Tlemsani, C., Boudou-Rouquette, P., de Percin, S., Noël, J., Gaudet-Chardonnet, A., Sullo, F., Parfait, B., Abdelli, J., Bruneau, T., Larousserie, F., Audard, V., Larrede, S., Blanchet, B., Waechter, L., Goldwasser, F., Laurent-Puig, P., Alexandre, J., Beinse, G. *Clinical Cancer Research* (2025), publication acceptée.

Circulating tumor DNA strongly predicts efficacy of chemotherapy plus immune checkpoint inhibitors in patients with advanced gastro-esophageal adenocarcinoma. Tougeron, D., Louvet, C., Desramé, J., Evesque, L., Angelergues, A., Carnot, A., Breysacher, G., Zaanan, A., Etchepare, N., Mabro, M., Kaluzinski, L., Petorin, C., Chibaudel, B., Aparicio, T., Bodere, A., Rinaldi, Y., Le Malicot, K., Emile, J-F., Lepage, C., Baures, A., Hanane Djamai, H., Valérie Taly, V., Pierre Laurent-Puig, P. *Communications Medicine* (2025), 5(1):136. doi: 10.1038/s43856-025-00867-x.

Preoperative liquid biopsy for EGFR-mutated detection at diagnostic in early-stage non-small cell lung cancer: real-world experience of a single centre. Bontoux, C., Benzaquen, J., Taly. V., Baurès, A., Allegra, M., Lacoux, C., Lespinet-Fabre, V., Bordone, O., Tanga, V., Goffinet, S., Rignol1, G., Berthet, J.P., Marquette, C.H., Ilie, M., Hofman, V. and Hofman., P. *Journal of Clinical Pathology* (2025), jcp-2024-209941, publication sous presse. doi: 10.1136/jcp-2024-209941.

Early detection of pancreatic cancer by liquid biopsy "PANLIPSY": A French nation-wide study project. T. Bardol*, A. M. Dujon, V. Taly, C. Dunyach-Remy, J-P. Lavigne, B. Costa Silva, K. Kurma, D. Masmoudi, C. Canivet, F. Muscari, B. Bournet, C. Alix-Panabières. *BMC Cancer* (2024), 24(1):709. doi: 10.1186/s12885-024-12463-8.

List of selected peer-reviewed articles

Circulating tumour DNA at baseline for individualised prognostication in patients with chemotherapy-naïve metastatic colorectal cancer. An AGEO prospective study. Bachet JB, Laurent-Puig P, Meurisse A, Bouché O, Mas L, Taly V, Cohen R, Gornet JM, Artru P, Louafi S, Thirot-Bidault A, Baumgaertner I, Coriat R, Tougeron D, Lecomte T, Mary F, Aparicio T, Marthey L, Blons H, Vernerey D, Taieb J. *Eur J Cancer* (2023), 189:112934. doi: 10.1016/j.ejca.2023.05.022.

Highly specific droplet-based digital PCR detection of universally methylated circulating tumor DNA in endometrial carcinoma. G. Beinse, B. Borghese, M. Métairie, P.-A. Just, G. Poulet, S. Garinet, B. Parfait, A. Didelot, C. Bourreau, N. Agueff, B. Terris, C. Chapron, F. Goldwasser, K. Leroy, H. Blons, P. Laurent-Puig, V. Taly, J. Alexandre. *Clinical Chemistry,* 68(6):782-793. doi: 10.1093/clinchem/hvac020.

Prognostic value of circulating tumor DNA in metastatic pancreatic cancer patients: post-hoc analyses of 2 randomized trials. Pietrasz, D., Wang-Renault, S., Taieb, T., Dahan, L., Postel, M., Durand-Labrunie, J., Le Malicot, K., Mulot, C., Rinaldi, Y., Phelip, J.M, Doat, S., Blons, H., de Reynies, A., Bachet, JB., Taly, V., Laurent-Puig, P. *British Journal of Cancer (2022),* 126(3):440-448. doi: 10.1038/s41416-021-01624-2.

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, Frederic, Blons, Hélène, Zaanan, Aziz, Chatellier, G., Hutchison, B., Link ,D., Wang-Renault, S., Laurent-Puig, P., Taly, V. *European Journal of Cancer* (2021), 159:24-33. doi: 10.1016/j.ejca.2021.09.004.

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. *Clinical Cancer Research* (2021), 27(20):5638-5646. doi: 10.1158/1078-0432.CCR-21-0271.

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List of selected peer-reviewed articles

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. Zaanan. *International Journal of Cancer* (2019), 147(4):1185-1189. doi: 10.1002/ijc.32657.

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* (2020), 52(7) : 730-733. doi: 10.1016/j.dld.2020.04.010.

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. Clinical Colorectal Cancer (2018), 7(2):e369-e379. doi: 10.1016/j.clcc.2018.02.006

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), 23(18):5416-5425. doi: 10.1158/1078-0432.CCR-16-3155

Plasmatic Circulating Tumor DNA in pancreatic cancer patients is a prognostic marker. D. Pietrasz, N. Pécuchet, F. Garlan, A. Didelot, O. Dubreuil, S. Doat, F. Imbert-Bismut, M. Karoui, J-C. Vaillant, V. Taly, P. Laurent-Puig, J-B. Bachet. Clin Cancer Research (2017), 23(1):116-123. doi: 10.1158/1078-0432.CCR-16-0806

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. Zaanan, P. Laurent-Puig, I. Sobhani and V. Taly*. Clinical Chemistry (2016), 62(8):1129-39. doi: 10.1373/clinchem.2015.253609

List of selected meeting abstracts

730P Validation of circulating tumor DNA for prognostication and monitoring in metastatic endometrial carcinoma: Ancillary results from the phase II randomized GINECO trial UTOLA. Beinse, G., Taly, V., Leary, A., Baures, A., Tredan, O., You, B., Rodrigues, MJ., Gladieff, L., Abadie Lacourtoisie, S., Bengrine Lefevre, L., Brachet, PE., Lebreton, C., Kalbacher, E., Fournel, P., Frenel, JS., Selle, F., Largillier, R., Laurent-Puig, P., Joly Lobbedez, F., Alexandre. J. **ESMO congress 2024**, Annals of Oncology (2024), 35, pages S555-S556. DOI: 10.1016/j.annonc.2024.08.792

109P Development and validation of a digital PCR assay for detection and monitoring of universally methylated circulating tumor DNA in patients with high-grade sarcoma. Ashton, E., Taly, V., Tlemsani, C., Gaudet-Chardonnet, A., Parfait, B., Abdelli, J., Larousserie, F., Audard, V., Dumaine, V., Biau, D., Anract, P., Larrede, S., Waechter, L., Noel, J., de Percin, S., Boudou Rouquette, P., Goldwasser, F., Laurent-Puig, P., Alexandre, J., Beinse, G. **ESMO congress 2024**, Annals of Oncology (2024), 35, pages S257-S258. DOI: 10.1016/j.annonc.2024.08.117

Valeur pronostique de la cinétique précoce de l'ADN tumoral circulant en cours de chimiothérapie néoadjuvante pour les patientes présentant un cancer épithélial de l'ovaire à un stade avancé. Résultats préliminaires d'une analyse ancillaire de l'étude de phase II CHIVA (ARCAGY-GINECO). Azais, H., Brochard C., Benoit L., Bats A-S., Taly V., Ferron G., Ray-coquard I., Hamizi, S., Abadie-lavourtoisie S., Lebreton C., Venat-Bouvet L., Louvet C., Favier L., Lortholary, A., Dohollou N., Malaurie E., Dubot C., Kurtz J-E., Blons H., Laurent-Puig P. Gynécologie Obstétrique Fertilité & Sénologie. Volume 52, Issue 5, May 2024, pages 348-349.

Development and validation of a highly specific digital PCR test using hypermethylated circulating tumor DNA in invasive urothelial carcinoma. Prost, D., Haberstich, M., Lavollé, A., Taly, V., Laurent-Puig, P., Beinse, G., Thibault, C., Audenet, F. **European Urology 2024**, 85, pages S878-S879.

Étude de l'hyperméthylation dans l'ADN tumoral circulant comme marqueur universel des tumeurs urothéliales (étude PLASMURO). Prost, D., Haberstich, M., Lavollé, A., Taly, V., Laurent-Puig, P., Beinse, G., Thibault, C., Audenet, F. 2023/11/1. **Progrès en Urologie-FMC** (2023), 33 (3), pages S71-S72.

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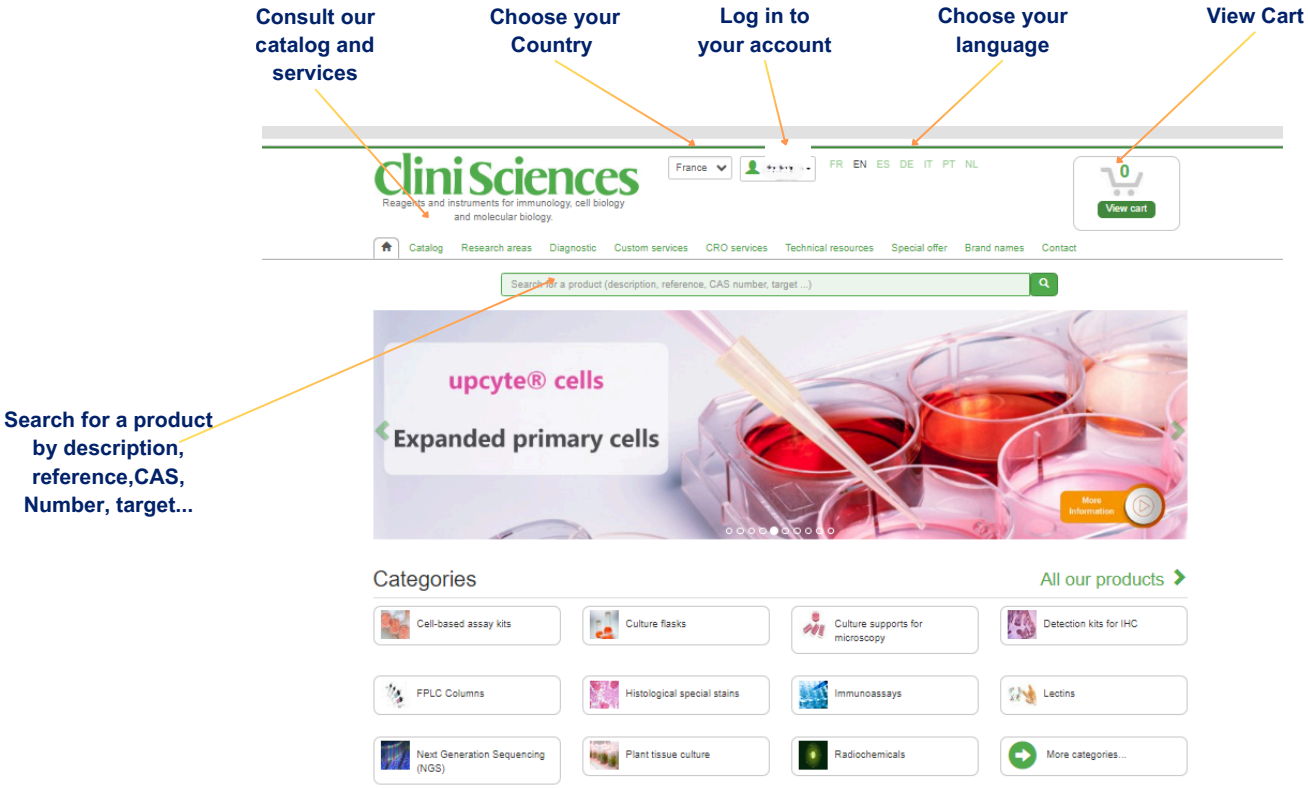

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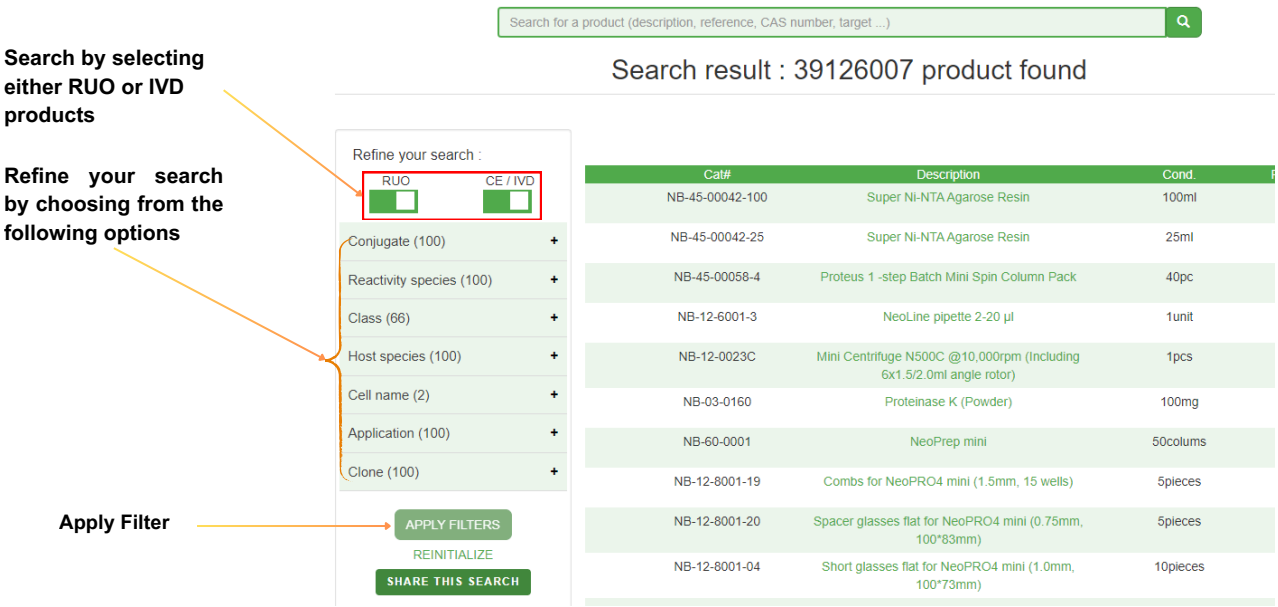

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Version 07-10-2025