Resource Summary Report

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OncoTrack

RRID:SCR_003767
Type: Tool

Proper Citation

OncoTrack (RRID:SCR_003767)

Resource Information

URL: http://www.oncotrack.eu/

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Description: An international consortium to develop and assess novel approaches to identify and characterize biological markers for colon cancer that will deepen the understanding of the variable make-up of tumors and how this affects the way patients respond to treatment. They will use cutting edge laboratory-based genome sequencing techniques coupled to novel computer modelling approaches to study both the biological heterogeneity of colon cancers (i.e. patient to patient variability) as well as tumor variation within the patient for example, by comparing primary tumors with metastases. This five year project brings together top scientists from European academic institutions offering a wide range of expertise, and partners them with pharmaceutical companies. The project is based on the premise that this genetic and epigenetic information, combined with a description of the molecular pathology of the tumor, will allow OncoTrack to generate a more accurate in-silico model of the cancer cell. This will facilitate the identification of predictive markers that can be used to guide the optimal therapy strategy at the level of the individual patient - and will also provide on-going prognostic guidance for the clinician. This project will not only advance understanding of the fundamental biology of colon cancers but will provide the means and approach for the identification of previously undetected biomarkers not only in the cancer under study, but potentially also in other solid cancers and, in doing so, open the door for personalized management of the oncology patient.

Abbreviations: OncoTrack

Synonyms: OncoTrack - Methods for systematic next generation oncology biomarker development, Onco Track

Resource Type: data or information resource, consortium, organization portal, portal

Keywords: oncology, biomarker, diagnosis, basic science, genome sequencing, computer modelling, genetic, epigenetic, pathology, model, cancer cell, colon, cancer, treatment, genomics, clinical, systems biology, in-silico model, patient variability, tumor variability

Funding: Innovative Medicines Initiative ;
EFPIA

Resource Name: OncoTrack

Resource ID: SCR_003767

Alternate IDs: nlx_158037

Record Creation Time: 20220129T080220+0000

Record Last Update: 20250429T054843+0000

Ratings and Alerts

No rating or validation information has been found for OncoTrack.

No alerts have been found for OncoTrack.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 9 mentions in open access literature.

Listed below are recent publications. The full list is available at ASWG.

Welter D, et al. (2023) The Translational Data Catalog - discoverable biomedical datasets. Scientific data, 10(1), 470.

Vuaroqueaux V, et al. (2022) Elevated MACC1 Expression in Colorectal Cancer Is Driven by Chromosomal Instability and Is Associated with Molecular Subtype and Worse Patient Survival. Cancers, 14(7).

Liebs S, et al. (2019) Detection of mutations in circulating cell-free DNA in relation to disease stage in colorectal cancer. Cancer medicine, 8(8), 3761.

Grill M, et al. (2019) Members of the endocannabinoid system are distinctly regulated in

inflammatory bowel disease and colorectal cancer. Scientific reports, 9(1), 2358.

Christensen S, et al. (2019) 5-Fluorouracil treatment induces characteristic T>G mutations in human cancer. Nature communications, 10(1), 4571.

Talukder AK, et al. (2016) Tracking Cancer Genetic Evolution using OncoTrack. Scientific reports, 6, 29647.

Boehnke K, et al. (2016) Assay Establishment and Validation of a High-Throughput Screening Platform for Three-Dimensional Patient-Derived Colon Cancer Organoid Cultures. Journal of biomolecular screening, 21(9), 931.

Kargl J, et al. (2016) GPR55 promotes migration and adhesion of colon cancer cells indicating a role in metastasis. British journal of pharmacology, 173(1), 142.

Lopes P, et al. (2015) Challenges and Opportunities for Exploring Patient-Level Data. BioMed research international, 2015, 150435.