1 of 8

PATIENT & PHYSICIAN INFORMATION

Patient: First Last

Date of Birth: Jul 01, 1977

Tumor: Lung

GSNGS Accession No: GNGSXXXXXXXX

External Specimen ID: N/A

MRN: MRN-XX

Gender: Male

Specimen Type: Whole Blood

Stage: Advanced Stage

Date Collected: Nov 11, 2023 **Physician:** Dr. First Last

Facility: Facility Name

Address: Address State, USA

Phone: XXX-XXX-XXXX

Date Received: Nov 12, 2023 Fax: XXX-XXX-XXXX

Date Reported: Nov 13, 2023

GENESTRAT NGS® TEST RESULTS

Relevant Biomarkers

Tier	Genomic Alteration	Relevant Therapies (In this cancer type)	Relevant Therapies (In other cancer type)	Clinical Trials
A	EGFR L858R Allele Frequency: 0.63%	afatinib ¹ dacomitinib ¹ erlotinib ¹ erlotinib + ramucirumab ¹ gefitinib ¹ osimertinib ¹ bevacizumab + erlotinib	None	20

Public data sources included in relevant therapies: FDA1, NCCN

See "Classification and Levels of Evidence" section for tier definitions.

🛕 Alerts informed by public data sources: 🥝 Contraindicated, 🏮 Resistance, 🕜 Breakthrough, 🗛 Fast Track, 😑 Not recommended

EGFR L858R

🗣 patritumab deruxtecan 1

Public data sources included in alerts: FDA1, NCCN

LABORATORY DIRECTOR

Donald Joe Chaffin, M.D., CAP Accredited CLIA Laboratory Director

The Laboratory Director approval applies to the detection of the molecular variants in this assay.

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Disclaimer: The data presented here is from a curated knowledgebase of publicly available information, but may not be exhaustive. The data version is 2023.10(004). The content of this report has not been evaluated or approved by FDA, EMA or other regulatory agencies.



GENESTRAT NGS® PANEL DETAILS

Relevant Lung Cancer Findings

Gene	Finding	Gene	Finding
ALK	None detected	MET	None detected
BRAF	None detected	NTRK1	None detected
EGFR	EGFR L858R	NTRK3	None detected
ERBB2	None detected	RET	None detected
KRAS	None detected	ROS1	None detected

Genes Assayed

Single Nucleotide Variants (SNVs) and Insertion/Deletions (Indels): AKT1, ALK, APC, AR, ARAF, BRAF, CHEK2, CTNNB1, DDR2, EGFR, ERBB2 (HER2), ERBB3, ESR1, FGFR1, FGFR2, FGFR3, FGFR4, FLT3, FBXW7, GNA11, GNAQ, GNAS, HRAS, IDH1, IDH2, KIT, KRAS, MAP2K1, MAP2K2, MET, MTOR, NRAS, NTRK1, NTRK3, PDGFRA, PIK3CA, PTEN, RAF1, RET, ROS1, SF3B1, SMAD4, SMO, TP53

Fusions and Skipping Variants: ALK, BRAF, ERG, ETV1, FGFR1, FGFR2, FGFR3, MET, NTRK1, NTRK3, RET, ROS1

Copy Number Amplifications: CCND1, CCND2, CCND3, CDK4, CDK6, EGFR, ERBB2 (HER2), FGFR1, FGFR2, FGFR3, MET, MYC

Biomarker Descriptions

EGFR (epidermal growth factor receptor)

<u>Background</u>: The EGFR gene encodes the epidermal growth factor receptor (EGFR) tyrosine kinase, a member of the ERBB/human epidermal growth factor receptor (HER) family. In addition to EGFR/ERBB1/HER1, other members of the ERBB/HER family include ERBB2/HER2, ERBB3/HER3, and ERBB4/HER4¹. EGFR ligand induced dimerization results in kinase activation and leads to stimulation of oncogenic signaling pathways including the PI3K/AKT/MTOR and RAS/RAF/MEK/ERK pathways. Activation of these pathways promote cell proliferation, differentiation, and survival^{2,3}.

<u>Alterations and prevalence:</u> Recurrent somatic mutations in the tyrosine kinase domain (TKD) of EGFR are observed in approximately 10-20% of lung adenocarcinoma, and at higher frequencies in never-smoker, female, and Asian populations^{4,5,6,7}. The most common mutations occur near the ATP-binding pocket of the TKD and include short in-frame deletions in exon 19 (EGFR exon 19 deletion) and the L858R amino acid substitution in exon 21⁸. These mutations constitutively activate EGFR resulting in downstream signaling, and represent 80% of the EGFR mutations observed in lung cancer. A second group of less prevalent activating mutations include E709K, G719X, S768I, L861Q, and short in-frame insertion mutations in exon 20^{9,10,11,12}. EGFR activating mutations in lung cancer tend to be mutually exclusive to KRAS activating mutations¹³. In contrast, a different set of recurrent activating EGFR mutations in the extracellular domain include R108K, A289V and G598V and are primarily observed in glioblastoma^{8,14}. Amplification of EGFR is observed in several cancer types including 30% of glioblastoma, 12% of esophageal cancer, 10% of head and neck cancer, 5% of bladder cancer, and 5% of lung squamous cell carcinoma^{5,6,7,14,15}. Deletion of exons 2-7, encoding the extracellular domain of EGFR (EGFRvIII), results in overexpression of a ligand-independent constitutively active protein and is observed in approximately 30% of glioblastoma^{16,17,18}.

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3 of 8

Biomarker Descriptions (continued)

Potential relevance: Approved first-generation EGFR tyrosine kinase inhibitors (TKIs) include erlotinib¹⁹ (2004) and gefitinib²⁰ (2015), which block the activation of downstream signaling by reversible interaction with the ATP-binding site. Although initially approved for advanced lung cancer, the discovery that drug sensitivity was associated with exon 19 and exon 21 activating mutations allowed first-generation TKIs to become subsequently approved for front-line therapy in lung cancer tumors containing exon 19 or exon 21 activating mutations. Second-generation TKIs afatinib²¹ (2013) and dacomitinib²² (2018) bind EGFR and other ERBB/HER gene family members irreversibly and were subsequently approved. First- and second-generation TKIs afatinib, dacomitinib, erlotinib, and gefitinib are recommended for the treatment NSCLC harboring EGFR exon 19 insertions, exon 19 deletions, point mutations L861Q, L858R, S768I, and codon 719 mutations, whereas most EGFR exon 20 insertions, except p.A763 Y764insFOEA, confer resistance to the same therapies^{23,24,25,26}. However, in 2021, the irreversible tyrosine kinase inhibitor, mobocertinib²⁷was FDA approved for the treatment of NSCLC with EGFR exon 20 insertion mutations. Additionally, in 2022, the FDA granted breakthrough therapy designation to the irreversible EGFR inhibitors, CLN-081 (TPC-064)²⁸ and sunvozertinib²⁹, for locally advanced or metastatic non-small cell lung cancer harboring EGFR exon 20 insertion mutations. In lung cancer containing EGFR exon 19 or 21 activating mutations, treatment with TKIs is eventually associated with the emergence of drug resistance³⁰. The primary resistance mutation that emerges following treatment with first-generation TKI is T790M, accounting for 50-60% of resistant cases⁸. Third generation TKIs were developed to maintain sensitivity in the presence of T790M. Osimertinib³¹ (2015) is an irreversible inhibitor indicated for metastatic EGFR T790M positive lung cancer and for the first-line treatment of metastatic NSCLC containing EGFR exon 19 deletions or exon 21 L858R mutations. Like first-generation TKIs, treatment with osimertinib is associated with acquired resistance. In this case, resistance is associated with the C797S mutation and occurs in 22-44% of cases³⁰. The T790M and C797S mutations may be each selected following sequential treatment with a first-generation TKI followed by a third-generation TKI or vice versa³². T790M and C797S can occur in either cis or trans allelic orientation³². If C797S is observed following progression after treatment with a third-generation TKI in the first-line setting, sensitivity may be retained to first-generation TKIs³². If C797S co-occurs in trans with T790M following sequential treatment with first- and third-generation TKIs, patients may exhibit sensitivity to combination first- and third-generation TKIs, but resistance to third-generation TKIs alone^{32,33}. However, C797S occurring in cis conformation with T790M, confers resistance to first- and thirdgeneration TKIs³². Fourth-generation TKIs are in development to overcome acquired C797S and T790M resistance mutations after osimertinib treatment. EGFR targeting antibodies including cetuximab (2004), panitumumab (2006), and necitumumab (2016) are under investigation in combination with EGFR-targeting TKIs for efficacy against EGFR mutations. The bispecific antibody, amivantamab³⁴, targeting EGFR and MET was approved (2021) for NSCLC tumors harboring EGFR exon 20 insertion mutations. CPO30135 received a fast track designation (2023) from the FDA for EGFR mutations in patients with metastatic NSCLC who are relapsed/refractory or ineligible for EGFR targeting therapy such as 3rd-generation EGFR inhibitors including osimertinib. The Oncoprex immunogene therapy guaratusugene ozeplasmid³⁶ in combination with osimertinib received a fast track designation from the FDA (2020) for NSCLC tumors harboring EGFR mutations that progressed on osimertinib alone. BDTX-18937 was granted a fast track designation (2020) for the treatment of solid tumors harboring an EGFR exon 20 insertion mutation.

Clinical Trials Summary

EGFR L858R			
		Dhasa	
NCTID	Inte	Phase	
NCT03833154	A Phase III, Randomized, Placebo-controlled, Double-blind, Multi-center, International Study of Durvalumab With Stereotactic Body Radiation Therapy (SBRT) for the Treatment of Patients With Unresected Stage I/II, Lymph-node Negative Non-small Cell Lung Cancer (PACIFIC-4/RTOG-3515)	III	

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4 of 8

Clinical Trials Summary (continued)

EGFR L858R (continued)

NCT ID	Title	Phase
NCT05120349	A Phase III, Double-blind, Randomised, Placebo-Controlled, International Study to Assess the Efficacy and Safety of Adjuvant Osimertinib Versus Placebo in Participants With EGFR Mutation-positive Stage IA2-IA3 Non-small Cell Lung Cancer, Following Complete Tumour Resection	III
NCT04181060	Randomized Phase III Study of Combination Osimertinib (AZD9291) and Bevacizumab Versus Osimertinib (AZD9291) Alone as First-Line Treatment for Patients With Metastatic EGFR-Mutant Non- Small Cell Lung Cancer (NSCLC)	III
NCT04351555	A Phase III, Randomised, Controlled, Multi-center, 3-Arm Study of Neoadjuvant Osimertinib as Monotherapy or in Combination With Chemotherapy Versus Standard of Care Chemotherapy Alone for the Treatment of Patients With Epidermal Growth Factor Receptor Mutation Positive, Resectable Non- small Cell Lung Cancer	III
NCT04765059	A Phase III, Randomized, Double-Blind, Placebo-Controlled Study of Platinum Plus Pemetrexed Chemotherapy Plus Osimertinib Versus Platinum Plus Pemetrexed Chemotherapy Plus Placebo in Patients With EGFRm, Locally Advanced or Metastatic NSCLC Who Have Progressed Extracranially Following First-Line Osimertinib Therapy (COMPEL)	III
NCT05338970	HERTHENA–Lung02: Phase III, Randomized, Open-label Study of Patritumab Deruxtecan Versus Platinum-Based Chemotherapy in Metastatic or Locally Advanced Non-Small Cell Lung Cancer (NSCLC) With Epidermal Growth Factor Receptor (EGFRm) Mutation After Failure treatment with epidermal growth factor (EGFR) tyrosine kinase inhibitors (TKIs)	III
NCT05261399	A Phase III, Randomised, Open-Label Study of Savolitinib in Combination With Osimertinib Versus Platinum-Based Doublet Chemotherapy in Participants With EGFR Mutated, MET-Overexpressed and/ or Amplified, Locally Advanced or Metastatic Non-Small Cell Lung Cancer Who Have Progressed on Treatment With Osimertinib (SAFFRON).	III
NCT05498428	A Phase II, Open-Label, Parallel Cohort Study of Subcutaneous Amivantamab in Multiple Regimens in Patients With Advanced or Metastatic Solid Tumors Including EGFR-mutated Non-Small Cell Lung Cancer	II
NCT03586453	A Phase II Study of Osimertinib With On-study and Post-progression Biopsy in the First Line Treatment of EGFR Inhibitor naive Advanced EGFR Mutant Lung Cancer	II
NCT05526755	An Open-label, Single-arm, Phase II, Multinational, Multicentre Study to Assess the Efficacy and Safety of 5 Years of Osimertinib in Participants With EGFRm-positive Stage II-IIIB NSCLC, Following Complete Tumour Resection with or Without Adjuvant Chemotherapy	II
NCT03778229	A Phase II Study Assessing the Efficacy of Osimertinib in Combination With Savolitinib in Patients With EGFRm+ and MET+, Locally Advanced or Metastatic Non Small Cell Lung Cancer Who Have Progressed Following Treatment With Osimertinib.	II
NCT04940299	A Phase II Study to Assess the Safety and Efficacy of Tocilizumab in Combination With Ipilimumab and Nivolumab in Patients With Advanced Melanoma, Non-Small Cell Lung Cancer, or Urothelial Carcinoma	II

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5 of 8

Clinical Trials Summary (continued)

EGFR L858R (continued)

NCT ID	Title	Phase
NCT04965090	A Phase II Single-Arm Study of Amivantamab (JNJ-61186372) and Lazertinib in Metastatic EGFR- mutant Lung Cancer With Progressive or New CNS Metastases on Previous Treatment	II
NCT05642572	A Randomized Phase II Study of INC280 (Capmatinib) Plus Osimertinib With or Without Ramucirumab in Participants With EGFR-Mutant, MET-Amplified Stage IV or Recurrent Non-Small Cell Lung Cancer (Lung-MAP Sub-Study)	II
NCT03944772	A Biomarker-directed Phase II Platform Study in Patients with Advanced Non-Small Lung Cancer Whose Disease Has Progressed on First-Line Osimertinib Therapy	II
NCT04120454	An Investigator-Sponsored Phase II Single Arm Trial of Ramucirumab and Pembrolizumab in Patients With EGFR Mutant Non-Small Cell Lung Cancer	II
NCT05184712	A Randomized, Double-blind, Multi-center, Phase III Study of AK112 or Placebo Combined With Pemetrexed and Carboplatin in Patients With EGFR-mutant Locally Advanced or Metastatic Non- squamous NSCLC Who Have Failed to EGFR-TKI Treatment	111
NCT04958811	A Phase II Open-label Multi-cohort Study Evaluating the Efficacy of Tiragolumab With Atezolizumab Plus Bevacizumab in Previously-Treated Advanced Non-squamous NSCLC	II
NCT03786692	TH-138: Phase II Randomized Trial of Carboplatin + Pemetrexed + Bevacizumab, With or Without Atezolizumab in Stage IV Non-squamous NSCLC Patients Who Harbor a Sensitizing EGFR Mutation or Have Never Smoked	II
NCT04410796	A Phase II Randomized Study of Osimertinib Versus Osimertinib Plus Chemotherapy for Patients With Metastatic EGFR-Mutant Lung Cancers That Have Detectable EGFR-Mutant cfDNA in Plasma After Initiation of Osimertinib	II

Note: Phase I clinical trials are not included if available.

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6 of 8

CLASSIFICATION AND LEVELS OF EVIDENCE

The variant classification system used in this report is based on joint consensus recommendations of the Association for Molecular Pathology, American Society of Clinical Oncology, and the College of American Pathologists. Tiers IA, IB, IIC, and IID are reported in descending order of clinical importance, and Tiers III and IV are not reported.

IA	IB	IIC	IID
Variants with strong clinical significance	Variants with strong clinical significance	Variants with potential clinical significance	Variants with potential clinical significance
Level A variants have an FDA-approved therapy and are included in professional guidelines for patient's tumor type.	Level B variants have well- powered studies with consensus from experts in the field for patient's tumor type.	Level C variants have FDA- approved therapies for different tumor types or investigational therapies. Multiple small, published studies with some consensus.	Level D variants have preclinical trials or a few case reports without consensus.

III: Variants of unknown clinical significance. | IV: Variants deemed benign or likely benign.

References: Li M. et al. JMD. Volume 19, Issue 1, P4-23, January 2017. | Li M. et al. JMD. Volume 25, Issue 2, P69-86, February 2023.

GENESTRAT NGS® ANALYSIS DESCRIPTION

TEST DESCRIPTION: The GeneStrat NGS genomic test is a qualitative laboratory developed test designed to aid physicians by providing molecular characterization of cancer patients' disease. The test has been validated for the detection of somatic mutations from cell-free DNA and RNA (cfDNA and cfRNA) derived from plasma samples using established targeted next generation sequencing methodology.

LIMITATIONS AND DISCLAIMER:

• Specific validated SNV and indel variant types relevant to oncology are reported from the genes assayed.

• The test has been validated to 0.5% Variant Allele Frequency for SNVs and indels.

• The limit of detection for fusion/skipping variants and copy number amplifications were 42 copies and 1.4 fold change, respectively.

• Reported variants may be either somatic (not inherited) or germline (inherited). The GeneStrat NGS genomic test cannot discern the source of the cfDNA and cfRNA, and for some variants in the range of ~40 to 60% minor allele frequency, the test cannot easily distinguish germline variants from somatic alterations. If a reported alteration is suspected to be germline, confirmatory testing should be considered.

• Variants found in circulation may be due to clonal hematopoiesis of indeterminate potential (CHIP). Accordingly, results are adjunctive to the ordering physician's workup and should be evaluated by a qualified healthcare professional in combination with the patient's clinical history, other diagnostic tests, and clinicopathological factors.

• For patients that test negative for all variants, tissue based testing is recommended.

• The GeneStrat NGS genomic test was developed and its performance characteristics determined by Biodesix, Inc. as a laboratory developed test. It has not been cleared or approved by the U.S. Food and Drug Administration. The FDA does not require this test to go through premarket FDA review. This test is used for clinical purposes and should not be regarded as investigational or for research. This laboratory is certified under the Clinical Laboratory Improvement Amendments (CLIA) as qualified to perform high-complexity clinical laboratory testing.

• The GeneStrat NGS genomic test results are intended to assist with decisions related to patient management and provide supplementary information. This test is not a stand-alone diagnostic assay.

· Values obtained with a different assay method or kit cannot be used interchangeably.

• Results cannot be interpreted as absolute evidence of the presence or absence of malignant disease.

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References

- 1. King et al. Amplification of a novel v-erbB-related gene in a human mammary carcinoma. Science. 1985 Sep 6;229(4717):974-6. PMID: 2992089
- 2. Zhixiang. ErbB Receptors and Cancer. Methods Mol. Biol. 2017;1652:3-35. PMID: 28791631
- 3. Gutierrez et al. HER2: biology, detection, and clinical implications. Arch. Pathol. Lab. Med. 2011 Jan;135(1):55-62. PMID: 21204711
- 4. Pines et al. Oncogenic mutant forms of EGFR: lessons in signal transduction and targets for cancer therapy. FEBS Lett. 2010 Jun 18;584(12):2699-706. PMID: 20388509
- 5. Cancer Genome Atlas Research Network. Comprehensive molecular profiling of lung adenocarcinoma. Nature. 2014 Jul 31;511(7511):543-50. doi: 10.1038/nature13385. Epub 2014 Jul 9. PMID: 25079552
- 6. Weinstein et al. The Cancer Genome Atlas Pan-Cancer analysis project. Nat. Genet. 2013 Oct;45(10):1113-20. PMID: 24071849
- 7. Cerami et al. The cBio cancer genomics portal: an open platform for exploring multidimensional cancer genomics data. Cancer Discov. 2012 May;2(5):401-4. PMID: 22588877
- 8. da et al. EGFR mutations and lung cancer. Annu Rev Pathol. 2011;6:49-69. doi: 10.1146/annurev-pathol-011110-130206. PMID: 20887192
- 9. Arcila et al. EGFR exon 20 insertion mutations in lung adenocarcinomas: prevalence, molecular heterogeneity, and clinicopathologic characteristics. Mol. Cancer Ther. 2013 Feb;12(2):220-9. PMID: 23371856
- Kobayashi et al. EGFR Exon 18 Mutations in Lung Cancer: Molecular Predictors of Augmented Sensitivity to Afatinib or Neratinib as Compared with First- or Third-Generation TKIs. Clin Cancer Res. 2015 Dec 1;21(23):5305-13. doi: 10.1158/1078-0432.CCR-15-1046. Epub 2015 Jul 23. PMID: 26206867
- 11. Yasuda et al. Structural, biochemical, and clinical characterization of epidermal growth factor receptor (EGFR) exon 20 insertion mutations in lung cancer. Sci Transl Med. 2013 Dec 18;5(216):216ra177. PMID: 24353160
- 12. Chiu et al. Epidermal Growth Factor Receptor Tyrosine Kinase Inhibitor Treatment Response in Advanced Lung Adenocarcinomas with G719X/L861Q/S768I Mutations. J Thorac Oncol. 2015 May;10(5):793-9. PMID: 25668120
- 13. Karachaliou et al. KRAS mutations in lung cancer. Clin Lung Cancer. 2013 May;14(3):205-14. PMID: 23122493
- 14. Brennan et al. The somatic genomic landscape of glioblastoma. Cell. 2013 Oct 10;155(2):462-77. PMID: 24120142
- 15. Cancer Genome Atlas Network. Comprehensive genomic characterization of head and neck squamous cell carcinomas. Nature. 2015 Jan 29;517(7536):576-82. PMID: 25631445
- 16. Mitsudomi et al. Epidermal growth factor receptor in relation to tumor development: EGFR gene and cancer. FEBS J. 2010 Jan;277(2):301-8. PMID: 19922469
- 17. Gazdar. Activating and resistance mutations of EGFR in non-small-cell lung cancer: role in clinical response to EGFR tyrosine kinase inhibitors. Oncogene. 2009 Aug;28 Suppl 1:S24-31. PMID: 19680293
- 18. Gan et al. The EGFRvIII variant in glioblastoma multiforme. J Clin Neurosci. 2009 Jun;16(6):748-54. PMID: 19324552
- 19. https://www.accessdata.fda.gov/drugsatfda_docs/label/2016/021743s025lbl.pdf
- $20. \ https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/206995s004lbl.pdf$
- 21. https://www.accessdata.fda.gov/drugsatfda_docs/label/2022/201292s017lbl.pdf
- 22. https://www.accessdata.fda.gov/drugsatfda_docs/label/2020/211288s003lbl.pdf
- 23. NCCN Guidelines® NCCN-Non-Small Cell Lung Cancer [Version 3.2023]
- 24. Naidoo et al. Epidermal growth factor receptor exon 20 insertions in advanced lung adenocarcinomas: Clinical outcomes and response to erlotinib. Cancer. 2015 Sep 15;121(18):3212-3220. PMID: 26096453

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References (continued)

- 25. Vyse et al. Targeting EGFR exon 20 insertion mutations in non-small cell lung cancer. Signal Transduct Target Ther. 2019;4:5. PMID: 30854234
- 26. Yi et al. A comparison of epidermal growth factor receptor mutation testing methods in different tissue types in non-small cell lung cancer. Int J Mol Med. 2014 Aug;34(2):464-74. PMID: 24891042
- 27. https://www.accessdata.fda.gov/drugsatfda_docs/label/2023/215310s002lbl.pdf
- 28. https://investors.cullinanoncology.com/news-releases/news-release-details/fda-grants-breakthrough-therapy-designationcullinan-oncologys
- 29. https://www.prnewswire.com/news-releases/fda-grants-breakthrough-therapy-designation-for-dizal-pharmaceuticals-dzd9008-inpatients-with-locally-advanced-or-metastatic-non-small-cell-lung-cancer-harboring-egfr-exon20-insertion-301469692.html
- 30. Madic et al. EGFR C797S, EGFR T790M and EGFR sensitizing mutations in non-small cell lung cancer revealed by six-color crystal digital PCR. Oncotarget. 2018 Dec 21;9(100):37393-37406. PMID: 30647840
- 31. https://www.accessdata.fda.gov/drugsatfda_docs/label/2023/2080650rig1s028lbl.pdf
- 32. Niederst et al. The Allelic Context of the C797S Mutation Acquired upon Treatment with Third-Generation EGFR Inhibitors Impacts Sensitivity to Subsequent Treatment Strategies. Clin. Cancer Res. 2015 Sep 1;21(17):3924-33. PMID: 25964297
- Wang et al. Lung Adenocarcinoma Harboring EGFR T790M and In Trans C797S Responds to Combination Therapy of First- and Third-Generation EGFR TKIs and Shifts Allelic Configuration at Resistance. J Thorac Oncol. 2017 Nov;12(11):1723-1727. PMID: 28662863
- 34. https://www.accessdata.fda.gov/drugsatfda_docs/label/2022/761210s002lbl.pdf
- 35. http://iis.aastocks.com/20230612/10770455-0.PDF
- 36. https://www.genprex.com/news/genprex-receives-u-s-fda-fast-track-designation-for-gene-therapy-that-targets-lung-cancer/
- 37. https://investors.blackdiamondtherapeutics.com/news-releases/news-release-details/black-diamond-therapeutics-granted-fast-track-designation-fda

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