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Papillary thyroid cancer: Genetic alterations and molecular biomarker investigations (Review) (Open Access)

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Abstract

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Papillary thyroid cancer (PTC) is the most prevalent form of malignancy among all cancers of the thyroid. It is also one of the few cancers with a rapidly increasing incidence. PTC is usually contained within the thyroid gland and generally biologically indolent. Prognosis of the cancer is excellent, with less than 2% mortality at 5 years. However, more than 25% of patients with PTC developed a recurrence during a long term follow-up. The present article provides an updated condensed overview of PTC, which focuses mainly on the molecular alterations involved and recent biomarker investigations. © Ivyspring International Publisher.

SciVal Topic Prominence

Topic: Thyroid Neoplasms | Carcinoma, Papillary | follicular variant

Prominence percentile: 98.209

Author keywords

Biomarker | Diagnostics | Genetic signature | Molecular alteration | Papillary thyroid cancer

Indexed keywords

EMTREE drug terms: B Raf kinase | biological marker | microRNA | protein tyrosine kinase inhibitor | proteome | radioactive iodine

EMTREE medical terms: BRAF gene | cancer classification | cancer prognosis | cancer recurrence | cancer risk | carcinogenesis | chromosome rearrangement | diagnostic accuracy | echography | fine needle aspiration biopsy | gene mutation | gene rearrangement | genetic marker | human | nodular goiter | nonhuman | oncogene ras | oncogene ret | point mutation | protein expression | Review | thyroid papillary carcinoma | thyroidectomy

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