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**Name of Journal:** *World Journal of Clinical Oncology*

**Manuscript NO:** 64445

**Manuscript Type:** REVIEW

**Breast cancer: muscarinic receptors as new targets for tumor therapy**

Muscarinic receptors in breast cancer

### Abstract

The development of breast cancer is a complex process that involves the participation of different factors. Several authors have demonstrated the overexpression of muscarinic acetylcholine receptors (mAChRs) in different tumor tissues and their role in the modulation of tumor biology, positioning them as therapeutic targets in cancer. The conventional treatment for breast cancer involves surgery, radiotherapy, and/or chemotherapy. The latter presents disadvantages such as limited specificity, the appearance of resistance to treatment and other side effects. To prevent these side effects, several schedules of drug administration, like metronomic therapy, have been



Breast cancer: muscarinic receptors as new targets for tumor therap



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## Muscarinic Receptors as Targets for Metronomic Therapy in ...

<https://www.eurekaselect.com/139874/article> ▾

Title: **Muscarinic Receptors as Targets for Metronomic Therapy in Breast Cancer**. VOLUME: 22  
ISSUE: 14. Author(s): María Elena Sales. Affiliation: Paraguay 2155 piso 16. CABA CP 1121, Argentina. †

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Author: María Elena Sales

Publish Year: 2016

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Muscarinic receptors in breast cancer. **Muscarinic acetylcholine receptors** (mAChRs) belong to the G protein coupled receptor group (GPCRs) and together with **nicotinic receptors** formed the cholinergic. †

## Participation of non-neuronal muscarinic receptors in the ...

<https://www.sciencedirect.com/science/article/pii/S1567576915001204>

Nov 01, 2015 · We have previously reported that **breast tumors** highly express functional **muscarinic acetylcholine receptors** (mAChRs) that regulate tumor progression. For this reason, **mAChRs** could †

Cited by: 13

Author: Alejandro Javier Español, Agustina Reina ...

Publish Year: 2015

## Role of epidermal growth factor receptor in breast cancer

<https://pubmed.ncbi.nlm.nih.gov/23073759>

Decades of research in molecular oncology have brought about promising **new therapies** which are designed to **target** specific molecules which promote tumor growth and survival. The **epidermal growth factor receptor** (EGFR) is a member of the **tyrosine kinase** family of receptors. †

Cited by: 446

Author: Hiroko Masuda, Dongwei Zhang, Chandra...

Publish Year: 2012

## Targeted Drug Therapy for Breast Cancer

<https://www.cancer.org/cancer/breast-cancer...> ▾

Targeted **therapy** for hormone receptor-positive **breast cancer**. About 2 of 3 **breast cancers** are hormone receptor-positive (estrogen receptor-positive or progesterone receptor-positive). For women †



Breast cancer: Muscarinic receptors as new targets for tumor thera



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Title: **Muscarinic Receptors as Targets for Metronomic Therapy** in Breast Cancer. VOLUME: 22 ISSUE: 14. Author (s): María Elena Sales. Affiliation: Paraguay 2155 piso 16. CABA CP 1121, Argentina. Keywords: **Acetylcholine, muscarinic receptors**, signal transduction pathways, tumor progression, **breast cancer, metronomic therapy**. Abstract: Background: It is actually known that **acetylcholine** works as a ...

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Author: María Elena Sales

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## Breast cancer: Metronomic therapy focused on muscarinic ...

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Muscarinic receptors in breast cancer. **Muscarinic acetylcholine receptors** (mAChRs) belong to the G protein coupled **receptor** group (GPCRs) and together with **nicotinic receptors** formed the cholinergic receptor Both types of receptors respond to **acetylcholine** but trigger different signaling pathways since the first one exerts metabotropic actions while the latter is ionotropic.

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Background: It is actually known that acetylcholine works as a signaling molecule in non-neuronal cells and tissues, in addition to its neuronal function a...

## Targeted therapies in breast cancer: New challenges to ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5385433>

Apr 10, 2017 · The PI3K/AKT/mTOR pathway is overactivated in 70% of breast cancers and the **protein kinases** found along these pathways may be potential drug targets for breast cancer therapy.

Cited by: 137

Author: Viviana Masoud, Gilles Pagès

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