

# An exciting question. An exact evidence stage.

Preview the reading approach before buying. The full 17-page reader contains eight selected jasmonate study cards, an evidence map, a model-identity case, a glossary and a reusable claim worksheet. It is original educational synthesis, not a clinical resource.

**The papers in this selected set examine biochemical systems, cells or animals. They do not establish that jasmonates prevent or treat cancer in people.**

## A primary-paper reading example

### So7 Bomer M et al. (2021)

Jasmonates induce Arabidopsis bioactivities selectively inhibiting the growth of breast cancer cells through CDC6 and mTOR

#### **Stage: Plant leaf-disk bioassay and cultured mammalian cells**

Material: Direct MeJA treatment compared with bioactivities from MeJA-treated plant material

The study links plant JA perception to bioactive mixtures that altered breast-cancer-cell growth and cell-cycle-related measurements. Direct MeJA and treated leaf material did not produce identical mTOR-related responses.

Limit: Plant-derived mixtures and direct methyl jasmonate are different exposures. Exact active components require further identification. A leaf-disk cell bioassay does not establish that eating plants prevents or treats cancer.

Open primary paper record | DOI: 10.1111/nph.17031

Reading prompt: What does the COI1 plant mutant help separate, and which interpretation would be lost if all exposures were called jasmonate?

Selection is not systematic. Do not compare different materials or models as though they were one intervention. The original paper remains the authority for its methods and results.

# The model changes the meaning.

Some older papers describe MDA-MB-435 as a breast cancer cell line. Primary authentication work by Korch and colleagues established it as a misidentified derivative of melanoma line M14. A result in that line should be described using its corrected identity. [S09]

Read the authentication source

## Try one claim audit

### Material

What exactly entered the experiment?

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### Model

Which authenticated cells or animal model were studied?

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### Endpoint

What was measured, and against which comparison?

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### Boundary

What claim about people would go beyond this design?

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