

Key – Week 10: Future Research

4. a) They are working on improving allergy diagnosis.

b) birch, apples, carrot, peaches

5. With some allergens **present in** several **substances**, it is difficult to **identify** the **source** of the allergy. It is the work of the researchers to **break down** the **constituent parts** of the potential food allergen. They have to **isolate**, **extract** and **purify** each protein all the better to **analyze** its structure and **properties**. The allergens thus purified make it possible to **develop** more reliable **methods** of diagnosis.

6. **apple**, pear, **hazelnut**, **peanut**, coconut, **mustard**, **sesame seed**, potato, **celeriaceae**, cucumber

7. new diagnostic tool (biotech screening)– needs just 1 drop of blood for testing different allergens

9. skin and breast cancer

10.

Research Done at:	The Department of Experimental Therapeutics at the University of Texas M.D.Anderson Cancer Center in Houston (Paragraph 5)
Research Lead by:	Bharat Aggarval (Par. 5)
Research Reported in:	Journal Cancer (Par. 6)
Name of Compound:	Curcumin (Par. 2)
Compound Found in:	The spice curry and turmeric (Title+Par. 2)

11. a) It makes melanoma cells more likely to self-destruct. (Paragraph 3)

It suppresses 2 proteins that tumor cells use to keep themselves immortal., (Par. 6)

b) Not yet - just on mice. (paragraph 4) Clinical trials are planned. (par.8)

c) It has not been shown yet. (paragraph 10)

12. The present article is titled **Curry Ingredient Fights Skin Cancer** and was released at **the Journal Cancer**. It deals with a substance that can fight some types of **cancer**. The name of the substance is **curcumin** and is found in **turmeric and curry**. Tests have shown that this substance made **melanoma skin** cancer cells more likely to self-destruct in a process known as **apoptosis** and also that that the same substance helped stop the spread of **breast** cancer tumour cells to the lungs of mice. So far the effects of curcumin have been tested in laboratory conditions, but clinical **trials** are planned.