Claims

1. An oral care composition comprising phenyl-3-methoxy-4-hydroxystyryl ketone (CHAK4) as a ~~chalcone~~ color change component ~~that is able to change color by addition of saliva and/or by a change in pH of the composition~~; and an orally acceptable carrier,
wherein the color change component is allowed to contact saliva from an oral surface of a subject to effect a change in color of the oral care composition providing a feedback signal to the subject of the oral health benefits provided to the oral surface and a signal for when to cease contacting the oral surface with the oral care composition.

2. The oral care composition of claim 1, wherein the ~~color change component comprises phenyl-3-methoxy-4-hydroxystyryl ketone (CHAK4)~~oral care composition further comprises an antibacterial agent; and the oral benefit is providing antibacterial activity.

~~3. The oral care composition of claims 1 or 2, wherein the oral care composition is a mouthwash.~~

43. The oral care composition of claims 2~~ or 3~~, wherein the antibacterial agent is cetylpyridinium chloride and the amount of phenyl-3-methoxy-4-hydroxystyryl ketone (CHAK4) ~~CHAK4~~ is ~~present in an amount~~ from 0.01 wt.% to 10 wt. % ~~by weight of the composition~~.

54. The oral care composition of claim 43, wherein the amount of ~~CHAK4~~ phenyl-3-methoxy-4-hydroxystyryl ketone (CHAK4) is ~~present in an amount~~ from 0.~~01~~5 wt.% to ~~0.05~~5 wt.%~~.~~

~~6. The oral care composition of any one of claims 1 - 5, wherein the pH of the composition is in the range of from 2 to 12.~~

~~7. The oral care composition of claim 6, wherein~~and the pH of the composition is ~~in the range of~~ from 3.5 to 5.0.

~~8. A mouthwash comprising a phenyl-3-methoxy-4-hydroxystyryl ketone in an amount from 0.01% to 10% by weight of the mouthwash.~~

~~9. A method of making an oral care composition comprising a color change component comprising adding phenyl-3-methoxy-4-hydroxystyryl ketone (CHAK4) to an orally acceptable carrier.~~

5. The oral care composition of claim 4, wherein the amount of phenyl-3-methoxy-4-hydroxystyryl ketone (CHAK4) is from 0.1 wt.% to 1 wt.% and the color of the oral care composition changes from yellow to red after contacting saliva from the oral surface.

6. The oral care composition of claim 4, wherein the oral care composition is a mouthwash.

7. The oral care composition of claim 4, wherein the oral care composition is a dentifrice.

8. Use of the oral care composition of any one of the preceding claims in the manufacture of a medicament for providing oral health benefits to an oral surface of a subject.

~~10. The method of claim 9, wherein the CHAK4 is added in an amount from 0.01% to 10% by weight of the composition.~~

~~11. The method of any one of claims 9 - 10, further comprising adjusting the pH to be within the range of from 3.5 to 5.0.~~

~~12. A method of providing oral health benefits to an oral surface comprising contacting the oral surface according to claim 1 with the oral care composition.~~