also known that, in certain species (*e.g.*, rat), the brain also preferably selects and absorbs RRR-alpha-tocopherol as compared to the seven other stereoisomers.

SUMMARY OF THE DISCLOSURE

[0004a] In one embodiment, there is provided a use of a nutritional composition for improving the visual processing of a healthy infant, wherein the nutritional composition comprises RRR-alpha-tocopherol and a carotenoid.

[0004b] In one embodiment, there is provided a use of a nutritional composition for improving the visual acuity of a healthy infant, wherein the nutritional composition comprises RRR-alpha-tocopherol and a carotenoid.

[0004c] In one embodiment, there is provided a use of a nutritional composition for improving the visual processing of a healthy infant, wherein the nutritional composition comprises RRR-alpha-tocopherol.

[0004d] In one embodiment, there is provided a use of a nutritional composition for improving the visual acuity of a healthy infant, wherein the nutritional composition comprises RRR-alpha-tocopherol.

[0004e] In one embodiment, there is provided a use of a nutritional composition for improving the development of visual processing, visual acuity, or both visual processing and visual acuity in a healthy infant, wherein the nutritional composition comprises RRR-alpha-tocopherol.

[0005] Some embodiments of the present disclosure are directed to methods of improving the visual processing of a healthy infant, the method comprising administering a nutritional composition comprising RRR-alpha-tocopherol and a carotenoid to the infant.

[0006] Some embodiments of the present disclosure are directed to methods of improving the visual acuity of a healthy infant, the method comprising administering a nutritional composition comprising RRR-alpha-tocopherol and a carotenoid to the infant.

What is claimed is:

1. Use of a nutritional composition for improving the visual processing of a healthy infant, wherein the nutritional composition comprises RRR-alpha-tocopherol and a carotenoid.

2. Use of a nutritional composition for improving the visual acuity of a healthy infant, wherein the nutritional composition comprises RRR-alpha-tocopherol and a carotenoid.

3. The use of claim 1 or 2 wherein the carotenoid is selected from the group consisting of α-carotene, β-carotene, γ-carotene, lycopene, lutein, zeaxanthin, astaxanthin, α-cryptoxanthin, β-cryptoxanthin, and combinations thereof.

4. The use of any one of claims 1-3 wherein the nutritional composition delivers about 0.5 mg to about 100 mg RRR-alpha-tocopherol per day to the infant.

5. The use of any one of claims 1-4 wherein the carotenoid comprises β-carotene and the nutritional composition delivers about 5 μg to about 160 mg β-carotene per day to the infant.

6. The use of any one of claims 1-4 wherein the carotenoid comprises lycopene and the nutritional composition delivers about 1.4 μg to about 180 mg lycopene per day to the infant.

7. The use of any one of claims 1-4 wherein the carotenoid comprises lutein and the nutritional composition delivers about 1 μg to about 240 mg lutein per day to the infant.

8. The use of any one of claims 1-4 wherein the carotenoid comprises zeaxanthin and the nutritional composition delivers about 1 μg to about 180 mg zeaxanthin per day to the infant.

9. The use of any one of claims 1-4 wherein the carotenoid comprises α-carotene and the nutritional composition delivers about 1 μg to about 180 mg α-carotene per day to the infant.

10. The use of any one of claims 1-4 wherein the carotenoid comprises α-cryptoxanthin and the nutritional composition delivers about 0.5 μg to about 90 mg α-cryptoxanthin per day to the infant.

11. The use of any one of claims 1-10 wherein the nutritional composition is a nutritional product further comprising at least one of protein, carbohydrate, and fat.

12. The use of claim 11 wherein the nutritional product is an infant nutritional formula comprising about 2% to about 75% protein, about 1% to about 85% carbohydrate, and about 5% to about 70% fat as percentages of the total calories.

13. The use of any one of claims 1-12 wherein the infant does not have ocular disease.

14. Use of a nutritional composition for improving the visual processing of a healthy infant, wherein the nutritional composition comprises RRR-alpha-tocopherol.

15. Use of a nutritional composition for improving the visual acuity of a healthy infant, wherein the nutritional composition comprises RRR-alpha-tocopherol.

16. The use of claim 14 or 15 wherein the nutritional composition delivers about 0.5 mg to about 100 mg RRR-alpha-tocopherol per day to the infant.

17. The use of any one of claims 14-16 wherein the nutritional composition is a nutritional product further comprising at least one of protein, carbohydrate, and fat.

18. The use of claim 17 wherein the nutritional product is an infant nutritional formula comprising about 2% to about 75% protein, about 1% to about 85% carbohydrate, and about 5% to about 70% fat as percentages of the total calories.

19. The use of any one of claims 14-18 wherein the nutritional composition is administered at least once per day.

20. The use of any one of claims 14-19 wherein the infant does not have ocular disease.

21. The use of any one of claims 14-20 wherein the nutritional composition further comprises a carotenoid selected from the group consisting of α-carotene, β-carotene, γ-carotene, lycopene, lutein, zeaxanthin, astaxanthin, α-cryptoxanthin, β-cryptoxanthin, and combinations thereof.

22. Use of a nutritional composition for improving the development of visual processing, visual acuity, or both visual processing and visual acuity in a healthy infant, wherein the nutritional composition comprises RRR-alpha-tocopherol.

23. The use of claim 22 wherein the nutritional composition further comprises a carotenoid.

24. The use of claim 22 or 23 wherein the infant is a full-term infant.

25. The use of any one of claims 22-24 wherein the infant does not have ocular disease.

26. The use of any one of claims 22-25 wherein the nutritional composition is an infant nutritional formula.