

Expert Declaration of Shalesh Kaushal, M.D., Phd. D.
List of Materials Considered

- CYAN EXHIBIT 1001 - US Patent No. 5,527,533 - Tso et al
- CYAN EXHIBIT 1002 – Grangaud, Rene, “Astaxanthin Research, New Vitamin A Factor,” English translation
- CYAN EXHIBIT 1004 - Massonet, Renee, “Research into the Biochemistry of Astaxanthin,” English translation
- CYAN EXHIBIT 1025 - Dowling JE and Wald G, “The Biological Function of Vitamin A,” pages 587-608, 1960.
- CYAN EXHIBIT 1026 - Dowling JE and Gibbons IR, “The effect of vitamin A deficiency on the fine structure of the retina,” *The Structure of the Eye*, pages 85-99, 1961.
- CYAN EXHIBIT 1029 - Reading VM, et al., “The Effect of Deficiency of Vitamins E and A on the Retina,” *Nutrition News*, Volume 38, Issue 11, pages 386-389, 1980.
- CYAN EXHIBIT 1030 - Carter-Dawson, L, et al., “Structural and Biochemical Changes in Vitamin A-Deficient Rat Retinas,” *Investigative Ophthalmology & Visual Science*, Volume 18, pages 437-446, 1979.
- CYAN EXHIBIT 1033 - Declaration of F.J. Schweigert.
- CYAN EXHIBIT 1035 - Zigler JS and Hess HH, “Cataracts in the Royal College of Surgeons Rat: Evidence for Initiation by Lipid Peroxidation Products,” *Experimental Eye. Research*, Volume 41, pages 67-76, 1985.
- CYAN EXHIBIT 1039 - Supplementary Declaration of F.J. Schweigert.
- UNIVERSITY Exhibit 2003 -- Excerpts from the Deposition of Florian J. Schweigert taken on March 12, 2014, in Patent Trial and Appeal Board Case IPR2013-00401
- UNIVERSITY Exhibit 2007 -- Chapter 6: “Metabolism of Carotenoids in Mammals,” by Florian J. Schweigert, *Carotenoids Volume 3: Biosynthesis and Metabolism*, 1998, pp. 249-284

UNIVERSITY Exhibit 2008 -- 8.7.1 Vitamin A, *Food Chemistry*, Third Edition, 1996, pp. 545-552

UNIVERSITY Exhibit 2010 -- "Astaxanthin, a Carotenoid without Vitamin A Activity, Augments Antibody Responses in Cultures including T-helper Cell Clones and Suboptimal Doses of Antigen," Jyonouchi, et al., *The Journal of Nutrition*, 1995, pp. 2483-2492

UNIVERSITY Exhibit 2011 -- Cyanotech Corporation statement submitted to the UK Food Standards Agency (Cysewski Deposition Exhibit #51)

UNIVERSITY Exhibit 2012 -- "Occurrence, Distribution, and Absorption of Provitamins A," by Thompson SY, *Proceedings of the Nutrition Society*, Volume 24(2), pp. 136-146, 1965

UNIVERSITY Exhibit 2013 -- "Preliminary Identification of the Human Macular Pigment," Richard A. Bone, et al., *Vision Research*, Volume 25, Issue 11, 1985, pp. 1531-1535

UNIVERSITY Exhibit 2014 -- Excerpts from "The World's Best Kept Health Secret Natural Astaxanthin," by Bob Capelli with Dr. Gerald Cysewski (RA-112986 and RA-113041) (Cysewski Deposition Exhibit #65)

Petition for *Inter Partes Review*.

Decision Instituting *Inter Partes Review*.

Declaration of Mark O.M. Tso (VALENSA000555-572).

Plaintiffs Disclosure of Responsive Claim Construction Expert Opinion.

Cecil Textbook of Medicine, 16th Ed, pages 1366-1367, 1982.

Merck Manual of Diagnosis and Therapy, 18th Ed, page 901, 2006.

Chapter 64 Vitamin A, Goodman and Gilman's The Pharmacological Basis of Therapeutics, 8th Ed, pages 1553-1563, 1990.