## On behalf of Vision Expo, we sincerely thank you for being with us this year.



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Use your phone or tablet to access this deck as a handout in PDF format.

- Point your device's camera at the QR code


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Understanding Light
and Color


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Anatomy of Color Perception


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Opsins are Photoreactive Proteins

Rhodopsin

- Found in Rods
- Requires Vitamin A
- Converts light to electricity
- Most sensitive at about 498 nm
lodopsins
- Cone Ossin
- MCone Opsin
- M Cone Opsin-Green 527-533
nm (Called op N2)
- Scone onsin- - Bue

The threeconentin
The three cone opsins are similar
in mechanism but differ in
in mechanis
sensitivity.


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Purple, Plum,
Magenta Lenses

- Color Blindness, Especially
Protanomoly: Enchroma Lenses


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Specialty Tints: Expensive but Therapeutically Significant

- FL-4:A A deep, orange/brown color. Used for.
Photophobia, Light-Induced Migraine, Color Blindness, Brain Trauma, Lid Spasms.
- Deep Blue Zee: A very deep blue color, blocks
a LOT of light. Used for: Photosensitive
Epilepsy, Parkinson's, Strabismic Amblyopia
- Omega: Light Blue, similar to Maui Jim

Brain Trauma, Dyslexia, Autism


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