

WEBINAR ON
**VISION SCIENCE AND
OPTOMETRY**

June 14 - 15, 2021 | 16:00 British Time

Coalesce Research Group
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Scientific Program

Webinar on Vision Science and Optometry

Monday
June 14, 2021

Day 1 - June 14, 2021

16:00 - 16:10 Introduction

Oral Presentation

- 16:10 - 16:35 **Toxic Keratitis – A Simple Overview**
Azimuddin Azim Siraj, Ministry of Health, Brunei Darussalam
- 16:35 - 17:00 **The importance of eye dominance and its relation to sporting performance (dyspraxia) and reading speed (dyslexia)**
Geraint Griffiths, The Association of Sport and School vision Practitioner (ASvP), United Kingdom
- 17:00 - 17:25 **Evaluating silent reading using eye-tracking technology in elementary students**
Ioannis M. Aslanides, Emmetropia Eye Clinic/Optotech Ltd, Greece
- 17:25 - 17:50 **Correlation of Choroidal Thickness and Body Mass Index in Healthy Saudi Females**
Hessa Almatar, Optometrist, Saudi Arabia
- 17:50 - 18:15 **Techniques for the rehabilitation of complete homonymous hemianopia; Palomar Prisms® and Palomar online visual rehabilitation therapy®**
Fernando - J. Palomar Mascaró, Palomar Optometric Centre, Spain
- 18:15 - 18:40 **Benefits and new features of modern international internet data-base "IOLCon" for updated and optimized IOL constants**
Sibylle K Scholtz, Saarland University, Germany

Eye Relaxation (18:40 - 19:00)

- 19:00 - 19:25 **The Importance of Colour Preference and its Association with Light Sensitivity and Reading Difficulties**
Geraint Griffiths, The Association of Sport and School vision Practitioner (ASvP), United Kingdom
- 19:25 - 19:50 **Photoreceptor modulates pathological retinal angiogenesis**
Ye Sun, Harvard Medical School, USA
- 19:50 - 20:15 **Global Outreach: An Ophthalmic Surgeon's Perspective**
Aisha Simjee, Ophthalmic Surgeon, USA
- 20:15 - 20:40 **Amblyopia without occlusion* new ways of treatments**
Enric Bach Cuadra, CEO, Vision Brain, Spain

End of Day 1 Sessions

Scientific Program

Webinar on Vision Science and Optometry

Tuesday
June 15, 2021

Day 2 - June 15, 2021

Oral Presentation

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| 17:00 - 17:25 | Understanding the pathophysiology of glaucoma and its comorbidity with obstructive sleep apnea.
Harinder Jaseja , Vellore EEG Center, Gwalior, India |
| 17:25 - 17:50 | Does Incision Size Really Matters in Post-operative Surgery Induced Astigmatism:A Comparison Between Manual Small Incision, Cataract Surgery and Standard Incision Phacoemulsification Cataract Surgery
Atanu Majumdar , NIMS University, India |
| 17:50 - 18:15 | Nevus of Ota:Clinical characteristics a new ocular classification and grading system
Vicktoria Vishnevskia-Dai , Tel Aviv University, Israel |
| 18:15 - 18:40 | The Comparative Rate of Reading Speed Test (CRST) The importance of comparing the rate of individual character recognition (static tracking speed) in serif and non-serif fonts
Geraint Griffiths , The Association of Sport and School vision Practitioner (ASvP), United Kingdom |
| 18:40 - 19:05 | Retinal vasculature in development and diseases
Ye Sun , Harvard Medical School, USA |
| 19:05 - 19:30 | Visual perceptual and oculomotor skills in children and adolescents after allogeneic hematopoietic stem cell transplantation
Alba Lucia Marin Törnquist , Research group Visión Sana, Universidad del Valle, Colombia |

End of Day 2 Sessions

Webinar on

Vision Science and Optometry

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TECHNIQUES FOR THE REHABILITATION OF COMPLETE HOMONYMOUS HEMIANOPIA; PALOMAR PRISMS[®] AND PALOMAR ONLINE VISUAL REHABILITATION THERAPY[®]

Fernando - J. Palomar Mascaró

Palomar Optometric Centre, Spain

Abstract

Complete homonymous hemianopies (HHC) occur as a result of structural pathological processes that affect retrochiasmatic visual pathways, creating a very annoying visual impairment. There are currently quite controversial treatments and few professionals use them, partly because the techniques are poorly understood. We believe that the diffusion of rehabilitation systems is important, since these patients can improve their quality of life (orientation in space, ambulation, reading, etc.) with the restitution of the image of the lost field through various techniques, including that are the Palomar attached prisms and visual stimulation programs. We will present the problem of these patients, treatment with Palomar Prisms[®] in 163 treated hemianopia patients and treatment with Palomar online visual rehabilitation therapy[®]. We will present the validation of the phenomenon of visual extinction that we use in the adaptation process. Finally, we will comment on the first results of the study that we are carrying out of the application of visual therapy in patients treated with attached prisms, which reveal that we can achieve recovery of the visual field due to neuroplasticity phenomena.

Biography

Fernando-J. Palomar Mascaró, Doctor by the Polytechnic University of Catalonia, Academic of Royal European Academy of Doctors, Professor at the Department of Optics and Optometry of the Polytechnic University of Catalonia 1995-98, Master's Degree in Optometry and Vision Sciences. Polytechnic University of Catalonia. Diploma in Optics and Optometry of the University School of Optics and Optometry of Terrassa, Associate number 5.692 of the National College of Opticians-Optometrists of Spain. Master in Contactology and Superior Optometry at the University of Barcelona. Member of the International Association of Contact Lens Educators. (IACLE), Fellow of the American Academy of Optometry. (FAAO), First Research Prize on Optometry and Contact Lenses Op. 2000. 1989 (Spain), Photo Awards "European Contact Lens Symposium". First prize 1.991 (Switzerland), First Prize 1.992 (France), Second Prize 1.994 (Portugal). Research Prize National College of Opticians-Optometrists (Accésit) 1.994 (Spain). International Research Prize "Premio Joaquín Rutllán 1.999" - Barraquer Institute of Ophthalmology. First Accésit. First Prize International Poster Competition "European Symposium on Contact Lenses" 2,000 (Germany). Second Photographic Prize 77th Spanish Society of Ophthalmology Congress 2.001 (Spain). Author of the book "Neurooftalmología. Exploración Pruebas y Diagnóstico" and a chapter in two books of Clinical Contactology; He has published 73 articles in 7 specialized journals and has made 25 national presentations, 13 international and 23 courses. President and founder NGO Association of hemianopic patients. He is currently the director of Palomar Centers.