Giulia Amore

Doctoral student Dept. of Biomedical and Neuromotor Sciences Alma Mater Studiorum - Bologna University

Francesco Bandello

Professor of Ophthalmology
Director of the Ophthalmology Clinic of Vita-Salute University,
Scientific Institute San Raffaele, Milan
Director of the Specialization School of Ophthalmology,
Vita-Salute University, Scientific Institute San Raffaele, Milan

Piero Barboni

Neurologist Consultant, San Raffaele, Milan

Marco Battist

Neurologist Consultant, Scientific Institute San Raffaele, Milan

Leonardo Caporali

Biotechnologist - at IRCCS Institute of Neurological Sciences, Bologna

Michele Carbonelli

IRCCS Institute of Neurological Sciences, Bologna UOC Neurological Clinic Bellaria Hospital

Valerio Carelli

Medical Director of UOC Neurological Clinic AUSL Bologna and Head of the Neurogenetics Laboratory

Maria Lucia Cascavilla

Head of Neuro-ophthalmology service and ocular electrophysiology IRCCS San Raffaele Hospital

Thomas Klopstock

Friedrich-Baur-Institute, Dept. of Neurology, LMU Klinikum Munich, Germany

Chiara La Morg

Researcher at the Biomedical and Neuromotor Sciences Department, Bologna Medical Director UOC Neurological Clinic IRCCS Neurological Sciences Institute, Bologna

Alessandra Maresca

Healthcare researcher - IRCCS Neurological Sciences Institute, Bologna

Martina Romagnoli

Biotechnologist fellow IRCCS Neurological Sciences Institute, Bologna

Patrick Yu-Wai-Man

Professor of Ophthalmology and Honorary Consultant Ophthalmologist, Moorfields Eye Hospital, London (UK), Addenbrooke's Hospital, Cambridge (UK), University of Cambridge, Cambridge (UK)



Course Venues:

MILAN

Ophthalmology Clinic Vita-Salute University IRCCS San Raffaele Hospital Via Olgettina, 60 - 20132 Milan

BOLOGNA

IIRCCS Neurological Sciences Institute of Bologna
UOC Neurological Clinic, Bellaria Hospital
Department of Biomedical and Neuromotor Sciences, Bologna University
Via Altura, 3 - 40139 Bologna

Destinatari dell'attività formativa ECM - Italia

Medico Chirurgo: Oftalmologia, Neurologia

Event Addressed to Ophtalmologists and Neurologists

PROVIDER ECM 362
ORGANIZING SECRETARIAT:



First Class - Meetings and Conferences Via L. Mascheroni 17, 20145 Milano Tel. +39 02 30066329 - Fax 0586.349920 info@fclassevents.com

Viale Italia, 173 - 57128 Livorno Tel. +39 0586 849809 - Fax: +39 0586 349920



Leber's Hereditary Optic Neuropathy

MILANO BOLOGNA





Course Directors:

Dott. Piero Barboni (Milano)
Prof. Valerio Carelli (Bologna)







5 - 6 October 2022

MASTER CLASS on LHON

Leber's Hereditary Optic Neuropathy

MILANO BOLOGNA



This is an international project addressed to a selected target of medical specialists in Ophthalmology and Neurology, specialized in the diagnosis and therapy of Leber's disease and it is projected and supported by an international Faculty

The program will start from a general framework of the pathology and goes on to diagnosis, treatment and scientific research.

The course will be held in two centers of Excellence, one specialized in research and the other in the treatment of LHON. The part dedicated to clinical treatment will be held at the Department of Ophthalmology of the San Raffaele Hospital in Milan, while the in-depth study of LHON research will be held at the Institute of Neurological Sciences in Bologna.

5 OCTOBER 2022

MILAN, Ophthalmology Clinic Vita-Salute University IRCCS San Raffaele Hospital Via Olgettina, 60 Milan

08.30 - 09.00 Introduction and Presentation of the Course | F. Bandello

Reference Centres and Management of NO diseases and Rare Eye Disease F. Bandello, P. Barboni, M.L. Cascavilla, M. Battista

09.00 - 10.00 LHON - Disease description:

- · Introduction and background
- · Epidemiology
- Disease demographics
- · Clinical manifestations
- · Visual prognosis and recovery
- · Anatomical and metabolic consideration

Discussion - Q&A

10.00 - 11.00 Ophthalmoscopic findings:

Asymptomatic stage, Pre-symptomatic stage, Symptomatic stage

Discussion - Q&A

11 00 - 11 30 Coffee Break

11.30 - 12.30 **OCT findings**

Retinal nerve fiber layer analysis

Ganglion cell analysis

Optic nerve head analysis

Discussion - Q&A

12.30 - 14.00 Lunch

14.00 - 17.00 Flow charts and focus on Differential diagnosis

Atypical features in practice: Childhood onset, Late onset, LHON plus

Interactive presentation and discussion of clinical cases

17.00 Closing remarks - first day

6 OCTOBER 2022

BOLOGNA, RCCS Neurological Sciences Institute of Bologna UOC Neurological Clinic, Bellaria Hospital Department of Biomedical and Neuromotor Sciences, Bologna University Via Altura, 3 Bologna

08.30 - 09.00 Introduction and Presentation of the second part of the Course | V. Carelli

Reference Centres and Management of LHON and Rare Eye Diseases | V. Carelli

09.00 - 10.00 Basis of Mitochondrial medicine:

- · Mitochondrial genetics | V. Carelli
- · Leber's disease: genetics framing | V. Carelli
- · Cellular pathogenic mechanism and ipSCs | A. Maresca

Discussion Q&A | V. Carelli

10.00 - 11.00 Genetics, databases and new perspectives in LHON:

- · Genetic testing, analysis of patient and family genetic tree and counselling | L. Caporali
- · LHON & DOA database and ongoing observational studies | M. Romagnoli
- · Artificial intelligence approaches to LHON | M. Romagnoli

11.00 - 11.30 Coffee Break

11.30 - 12.30 Pharmacological approaches in LHON | T. Klopstock

Regulatory rules for medical prescription in UE

12 30 - 13 30 Lunch

13.30 - 14.30 Genetical approach to LHON | P. Yu-Wai-Man

Clinical trials on gene therapy

14.30 - 16.00 • Neuro-ophthalmological follow-up | M. Carbonelli

- * Genotype-Phenotype correlations | C. La Morgia
- Triggering and hormonal factors | G. Amore
- Extra-ocular features | C. La Morgia
- · Interactive presentation and discussion of clinical cases

16.00 - 16.30 Visit to the laboratories | L. Caporali, A. Maresca, V. Carelli

16.30 Closing remarks