

SYMPOSIUM [M]

NeuroPedagogy of Vision and Beyond : from Perception to Cognition

20 may 2021



CPHV Centre pédagogique
pour élèves handicapés de la vue
Fondation Asile des aveugles



frontiers

Edito

How to relate neuroscientific discoveries and pedagogical applications? Hosted by the Centre pédagogique pour élèves handicapés de la vue (CPHV) of the Fondation Asile des aveugles, the present open and free symposium answers this question by coordinating pairs of lectures by neuroscientists and pedagogues. Adopting a pragmatic perspective, the symposium will tackle new discoveries on the relationship between visual perception and numeracy, cognition, sensory-motor coordination, learning and literacy. Talks will be given in English (EN) or French (FR), with simultaneous translation. Supported by the Frontiers Publishing group, the symposium will host the Frontiers Young Excellence Prize for the best three PhD students in cognitive neuroscience, neuropsychology, developmental psychology, human vision neuroscience, pedagogy, and any related discipline.

Organizers

Dre Raphaëlle Bertrand, Centre pédagogique pour élèves handicapés de la vue, Fondation Asile des aveugles (Suisse)
Prof. Silvio Ionta, Université de Lausanne, Fondation Asile des aveugles (Suisse)

Supporters

Lucien Panchaud, Centre pédagogique pour élèves handicapés de la vue, Fondation Asile des aveugles (Suisse)
Prof. Thomas J. Wolfensberger, Hôpital ophtalmique Jules-Gonin, Fondation Asile des aveugles (Suisse)
Prof. Reinier Schlingemann, Centre de recherche des sciences de la vue, Fondation Asile des aveugles (Suisse)

PhD credits : 0.5 ECTS

CME credits : 6

Programme

- 07h45 **Online Connection**
- 08h10 **Opening**
Prof. Thomas J. Wolfensberger & Prof. Reinier Schlingemann, Hôpital ophtalmique Jules-Gonin, Fondation Asile des aveugles
- 08h20 **Introduction**
Dre Raphaëlle Bertrand & Prof. Silvio Ionta, Fondation Asile des aveugles, Université de Lausanne

Session 1 : Numeracy

- 08h30 **Improving numerical performance in 3-5 years old children**
Prof. Michel Fayol, Université Clermont Auvergne (France)
- 08h50 **Blindness and numerical cognition : what impact ?**
Prof. Virginie Crollen, Université Catholique de Louvain (Belgium)
- 09h10 **The influence of gaze patterns on mathematical abilities**
Prof. Jo Van Herwegen, University College London (UK)
- 09h30 **Discussion**

Session 2 : Perception et Cognition

- 09h40 **Multisensory perception and scholar learning**
Prof. Edouard Gentaz, University of Geneva (Switzerland)
- 10h00 **The development of multisensory body representations in childhood**
Prof. Jane Aspell, Anglia Ruskin University (UK)
- 10h20 **Discussion**
- 10h30 **Special lecture : Neuroscience and Pedagogy: the vision of the CPHV,
a complementarity at the service of child development**
Lucien Panchaud, Fondation Asile des aveugles
- 10h40 *Coffee Break*

Session 3 : Eye-Hand Coordination

- 11h00 **Handwriting acquisition: role of visual and proprioceptive feedback**
Dre Florence Bara, Université de Toulouse (France)
- 11h20 **Don't lose sight of the hand**
Prof. Els Ortibus, Katholieke Universiteit Leuven (Belgium)
- 11h40 **Discussion**

Session 4 : Learning and Literacy

- 11h50 **Learning Braille reading and writing in an inclusive context:
which pedagogical ways?**
Nathalie Lewi-Dumont, Institut National Supérieur de formation et de recherche
pour l'éducation des jeunes Handicapés et les Enseignements Adaptés (France)
- 12h10 **Cognitive functioning at the heart of learning**
Prof. Valérie Camos, Université de Fribourg (Switzerland)
- 12h30 **Discussion**
- 12h45 **Frontiers Young Excellence Prize**
Student Presentations
- 13h15 *Lunch (take-away)*
- 13h45 **Ceremony of the Frontiers Young Excellence Prize**
- 14h00 **Closure**

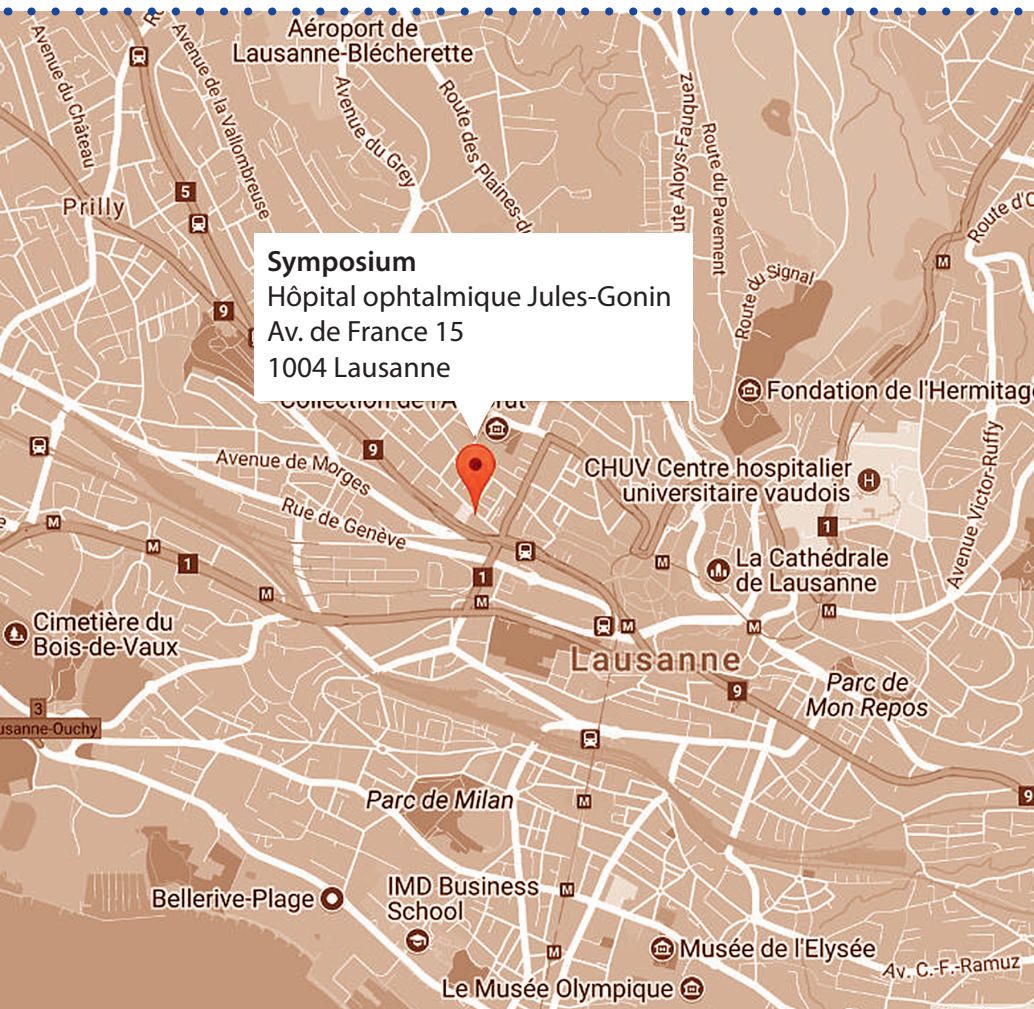
« Frontiers Young Excellence Prize »

PhD students are encouraged to submit abstracts for the Frontiers Young Excellence Prize (max 250 words, English) to silvio.ionta@unil.ch by 06 May 2021. Only registered students are allowed to apply (registration is free). Submitted abstracts will be reviewed and evaluated for scientific and/or clinical impact. The best abstracts will advance to the second step: a 3 min long slide presentation during the symposium. In the final step, peer-reviewers will judge the presentations. Three students will be selected as finalists, who will be assigned to first, second, and third place. Each finalist will receive a prize according to the rank.



<https://events.ophtalmique.ch>

Access



Contact

Location : Online (Zoom)
Auditorium of the Jules-Gonin
Eye Hospital
Av. de France 15, PO Box 5143,
1002 Lausanne, Switzerland

Fondation Asile des aveugles
Av. de France 15, PO Box 5143,
1002 Lausanne, Switzerland

Phone number : +41 21 626 87 10

Event registration :
<https://events.ophtalmique.ch>

No parking available at the
Foundation

Parking available at :
Centre SA, Rte de Genève 31
Beaulieu, Av. des Bergières 10
www.pms-parkings.ch

