

Texas School for the Blind and Visually Impaired Outreach Programs

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Texas School for the Blind & Visually Impaired Outreach Programs

CVI Study Group 1: CVI Symposium- Lotfi Merabet

October 15th, 2018

Facilitated by

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Today's Agenda

- New PSA!
- CVI Symposium: The role of the thalamus
- · Planning for the next study group

PSA

Connectivity

- Brain processes information by cycling information to different areas
- CVI: this cycling is interrupted
- http://www.perkinselearning.org/cvi/educators/symposium/2018
 2018 Sympoisum_Bauer_Bennett_Merabet 8:36- 12:30

Visual Pathways

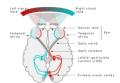


Figure 1: Image of visual pathways

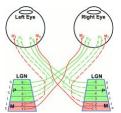


Figure 2: Image of visual pathways

Parvo Cells	Magno Cells
Majority of cells in LGN: 85-90%	Minority of cells in LGN: 10-15%
Small receptive field	Large receptive field
Slow conduction rate	Fast conduction rate
Low contrast sensitivity	High contrast sensitivity
Able to differentiate detailed stimuli	Able to differentiate only coarse stimuli
Color sensitive	Color blind

Processes information about color and detail	Processes information about depth and
	motion

Thalamus



Figure 3: Photo of bathroom

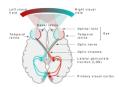
CVI Systems

- Vision affects all Development
- CVI during Development vs. Acquired
- CVI as Office Building
- http://www.perkinselearning.org/cvi/educators/symposium/2018
 2018 Sympoisum_Bauer_Bennett_Merabet 18:41-24:44

Enhance Plasticity

- Multisensory and Sensorimotor
- Environmental challenges
- Exercise

Ocular VI or CVI?



_Figure 4: Image of visual pathways

Next Study Groups: back to the 3-4 time slot on Mondays

December 10th, 2018 February 11th, 2019 April 15th, 2019

In the chat box:

- Write your email/name and the date when you want to let the group look at your student and give you ideas for things to try. Lynne will contact you!
- Write your email/name and a special topic in CVI if you would geek out, like Lynne did.

Texas School for the Blind & Visually Impaired Outreach Programs CVI Study Group 1: CVI Clinic 2018-19

October 15th, 2018 Thank you for joining us!

References:

- CVI_Symposium_Bauer_Bennet_Merabet http://www.perkinselearning.org/cvi/educators/symposium/2018
- Thalamic Attention https://www.coursera.org/lecture/neurobiology/thalamic-attention-gNi4P
- Parvo and magno diagrams: Early divergence of magnocellular and parvocellular functional subsystems in the embryonic primate visual system. Claire Meissirel, Kenneth C. Wikler, Leo M. Chalupa, Pasko Rakic Proceedings of the National Academy of Sciences May 1997, 94 (11) 5900-5905; DOI: 10.1073/pnas.94.11.5900 https://www.ucalgary.ca/pip369/mod2/visualpathways/magnoparvo

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Figure 6: IDEAs that Work logo and OSEP disclaimer.