



Center for
Scientific Review

ENQUIRE Group 11

Functional Neuroscience

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September 23, 2019

Study Sections Under Review

Acronym	Name
NNRS	Neuroendocrinology, Neuroimmunology, Rhythms and Sleep
LAM	Neurobiology of Learning and Memory
LCOM	Language and Communication
SPS	Somatosensory and Pain Systems
SMI	Sensory Motor Integration
ZRG1 BDCN-J 81	Ocular Surface, Cornea, Anterior Segment Glaucoma, and Refractive Error Special Emphasis Panel
CP	Cognition and Perception
SPC	Mechanisms of Sensory, Perceptual, and Cognitive Processes
AUD	Auditory System
BVS	Biology of the Visual System
DPVS	Diseases and Pathophysiology of the Visual System
CSS	Chemosensory Systems

External Panel

Approach

- Thought about defining appropriately competitive pools
- Emphasized emerging science, e.g. BRAIN initiative
- Concerned about attracting new scientists and cutting edge
- Noted need to refresh descriptions
- Considered alternative organizational structures

A range of recommendations

- Major changes to four study sections: 3 eye panels, NNRS
- Moderate changes in scope/topics to LAM, SPC, SPS, CSS, SMI
- Minor adjustments CP, LCOM, AUD

External Recommendations

Reorganize the 3 vision science panels

Current organization

- basic eye biology plus lens
- 2 disease panels, one essentially front of the eye, the other back of the eye

Recommended instead

- basic eye biology
- twin study sections to review all clinical translational disease science

External Recommendations

Reorganize the 3 vision science panels

Narrow Neuroendocrinology, Neuroimmunology, Rhythms and Sleep to Rhythms and Sleep







Freshen descriptions, invite new investigators, cutting edge science, BRAIN initiative, expand range of models, explicitly invite computational

Expand LAM (to humans? To decision making? To invertebrates?)

Contract SPC to focus on central vision

Move somatosensation from SPS to CSS add interoception to CSS



Internal Panel	External Recommendations
	Reorganize the 3 vision science panels
	Narrow Neuroendocrinology, Neuroimmunology, Rhythms and Sleep to Rhythms and Sleep
	Freshen descriptions, invite new investigators, cutting edge science, BRAIN initiative, expand range of models, explicitly invite computational
	Expand LAM (to humans? To decision making? To invertebrates?)
	Contract SPC to focus on central vision
	Move somatosensation from SPS to CSS add interoception to CSS

Discussion item:

CSR received opposing recommendations regarding study sections covering biology and disorders of the eye. What is the advice of Council?

External Panel Eye Recommendations

Biology and Development of the Eye BDE

- basic biology of the eye and other light sensing systems.
- fundamental biology and mechanisms important for normal visual function and non-visual light sensing systems.
- Basic studies of eye development are also reviewed here.
- mammalian, vertebrate, invertebrate, bioengineered tissue (e.g. organoids), cell lines, and computational approaches in pursuit of fundamental knowledge.

Pathophysiology of Eye Disease PED 1 & 2 (twin study sections)

- disorders and diseases of the eye ranging from investigations of etiology, to pathogenesis, diagnosis, detection, treatment, and prevention.
- human subjects and animal models of ocular disease, both basic and translational/clinical

Internal Panel Eye Recommendations

Biology of the Visual System Study Section – BVS

- basic biological studies of the eye where the major focus is on the elucidation of fundamental processes and mechanisms that are important for normal visual function, and these studies may be within the context of disease.
- Lens, cataract

Diseases and Pathophysiology of the Visual System – DPVS

- disorders of the retina and optic nerve, ranging from investigations of etiology or pathogenesis to diagnosis, detection, treatment or prevention.
- human subjects and mammalian animal models of ocular disease -both basic and translational-clinical proposals are reviewed.

Ocular Surface, Cornea, Anterior Segment Glaucoma & Refractive Error – ZRG1 BDCN-J 81

- basic and clinical approaches to study the ocular surface, cornea, lacrimal and meibomian glands, anterior segment glaucoma, and refractive error of the eye.

Next steps

- Mock sorts
- Integrate panel recommendations, guidance of CSRAC, and mock sort data