

Peer Reviewed Vision Research Program **VRP**

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Execution Timeline

12 Mar 09 Vision Setting and Investment Strategy	13 Jun 09 Program Announcement	30 Jul 09 Pre-proposal Submission	24 Aug 09 Pre-proposal Evaluation	22 Oct 09 Proposal Submission	11 Dec 09 Peer Review	16 Feb 10 Programmatic Review	12 Mar 09 Approved by MRMC Commanding General	31 Mar 10 Approved by DMRDP Program Director	31 Mar 10 Notifications Mailed
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Critical Areas

one Treatment of visual dysfunction associated with traumatic brain injury	two Treatment to slow or stop loss of vision in traumatic optic neuropathies	three Treatments for blast and burn injury to ocular structures	four Methods to test visual dysfunction in the presence of cognitive impairment	five Computational models of mechanisms of primary blast injury to the eye and vision system
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Submission Information

120 Pre-proposals Received	
51 Selected for Full Proposal Submission;	
49 Submitted AIBS Scores (1.0 to 5.0)	1.14 to 1.80 12 2.04 to 2.97 16 3.08 to 3.97 13 4.00 to 4.82 8
Programmatic Scores	3.68 to 3.97 3
Top 24 Proposals (3.1 to 10.8)	4.43 1 5.05 to 5.99 16 6.05 to 6.72 4

Funding

	Available	Cumulative
FY09 CSI	\$3,514,000	
FY10 CSI	\$3,184,447	\$6,698,447
TATRC	\$206,112	\$6,904,559
TBI	\$4,110,372	\$11,014,931

Associated Critical Area(s)

Name	Organization	Critical Area(s)
Nicholas Brecha	U.C.L.A.	Two
Stacey Choi	New England Coll. Opt.	Four & Five
Kenneth Ciuffreda	The State U. of New York	One
Colin Doherty	St. James Hospital	One
Randy Kardon	U. of Iowa	Four
Thao Nguyen	Johns Hopkins U.	Five
Vary Petrov	Northeastern U.	Four
Uri Polat	U. of Tel Aviv	One
Richard Regueiro	U. of Colorado	Five
Tonia Rex	U. of Tennessee	One, Two & Three
Gregory Schultz	U. of Florida	Three
James Weiland	U.S.C.	One & Four

Titles of Selected Proposals

Name	Organization	Title
Nicholas Brecha	University of California, Los Angeles	A Novel Approach to Alleviating Aberrant Calcium Signaling Causing Retinal Cell Loss in Traumatic Optic Neuropathy
Kenneth Ciuffreda	The State University of New York	Treatment of TBI Induced Oculomotor Dysfunctions Associated Reading Problems
Stacey Choi	New England College Optometry	Ultrahigh Resolution Retinal Imaging with Adaptive Optics for Early Diagnosis of Traumatic Brain Injury
Colin Doherty	St. James Hospital	Evaluation of an Acute RNAi-Mediated Therapeutic for Visual Dysfunction Associated with Traumatic Brain Injury
Randy Kardon	University of Iowa	Objective Methods to Test Visual Dysfunction in the Presence of Cognitive Impairment
Thao Nguyen	Johns Hopkins University	Computational Model of the Eye for Primary and Secondary Blast Trauma
Vary Petrov	Northeastern University	Oculomotor Reflexes as a Test of Visual Dysfunctions in Cognitively Impaired
Uri Polat	University of Tel Aviv	Behavioral Treatment TBI Associated Visual Dysfunction on Cortical Plasticity
Richard Regueiro	University of Colorado	Simulation of Blast Loading on an Ultrastructurally-Based Computation Model of the Ocular Lens
Tonia Rex	University of Tennessee	Treatment of Traumatic Vision Loss in a New Mouse Model of Blast Injury
Gregory Schultz	University of Florida	Reduction of Corneal Scarring Following Blast and Burn Injuries to Cornea Using siRNAs Targeting TGF Beta and CTGF
James Weiland	University of Southern California	Wearable Visual Aid as Treatment for TBI Associated Visual Dysfunction

Program Committee

Vision Center of Excellence COL Donald Gagliano
TATRC COL Karl Friedl
Clinical & Rehabilitation Research Program COL Janet Harris
Army Consultant Ophthalmology COL Robert Mazouzi
Air Force Consultant Otonometry Col Ray Santillo
Combat Casualty Care Research Program COL Dallas Hack
Air Force Consultant Ophthalmology Col Jonathan Briggs
Navy Consultant Ophthalmology CAPT Jonathan Collins
Navy Consultant Otonometry CAPT Michael Pattison
TATRC Vision-Clinical Manager LTC Michael Mines
Laser Retinal Injury Research Major Jeffrey Shere
National Institute of Health (NIH) Michael Steinmetz, PhD
TATRC Chief Scientist Charles Peterson, PhD
TATRC Senior Scientist Francis McVeigh, OD
Veterans Affairs Claude Cowan Jr, MD
FDA Office of the Scientific Liaison Asel Mykylbus, PhD
Assoc for Res. for Vision & Ophthalmology Joanne Angle
National Alliance for Eye & Vision Research J. Jorkasky and D. Epstein
TATRC Vision Portfolio Manager Robert Read



Nicholas Brecha



Stacey Choi



Kenneth Ciuffreda



Colin Doherty



Randy Kardon



Thao Nguyen



Vary Petrov



Uri Polat



Richard Regueiro



Tonia Rex



Gregory Schultz



James Weiland



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