

Neuroscience

Research Funding Contacts

in the

Federal Government

An informal compendium of names and contact information
for over 260 research grant administrators in 22 organizational units

Electronic version (PDF) of this list is available on the NIMH website at:

<http://www.nimh.nih.gov/research/neurofed.pdf>

Volume 13 Number 1
November 2003



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
NATIONAL INSTITUTES OF HEALTH • NATIONAL INSTITUTE OF MENTAL HEALTH

NIMH
National Institute
of Mental Health

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NATIONAL INSTITUTE OF MENTAL HEALTH (NIMH)
The Neuroscience Center
6001 Executive Boulevard
Bethesda, MD 20892
(For street address/overnight carriers use Rockville, MD 20852)

Division of Neuroscience & Basic Behavioral Science (DNBBS)

Steve Foote, Ph.D. Director, DNBBS (301) 443-3563 sfoote@mail.nih.gov

DNBBS Extramural Research Branches

Behavioral and Integrative Neuroscience Research Branch

Kevin J. Quinn, Ph.D.	Branch Chief	(301) 443-1576	kquinn@mail.nih.gov
Kathleen C. Anderson, Ph.D.	Cognitive Neuroscience	(301) 443-1576	kanders1@mail.nih.gov
Dennis L. Glanzman, Ph.D.	Theoretical & Computational Neurosci	(301) 443-1576	glanzman@helix.nih.gov
Israel I. Lederhendler, Ph.D.	Basic Behavioral & Systems Neuroscience	(301) 443-1576	izja@nih.gov

Molecular and Cellular Neuroscience Research Branch

Linda S. Brady, Ph.D.	Branch Chief, Fcncl Genomics, Neuropharm & Drug Discovery, Clinical Therapeutics,	(301) 443-5288	lbrady@mail.nih.gov
Chiiko Asanuma, Ph.D.	Signal Transduction	(301) 443-5288	casanuma@mail.nih.gov
Jamie Driscoll, B.S.	Psyact Drug Scrn, Chem Synth & Drug Supply, Toxicol Eval Novel Ligands	(301) 443-5288	jdrisco1@mail.nih.gov
Beth-Anne Sieber, Ph.D.	Developmental Neurobiology	(301) 443-5288	bsieber@mail.nih.gov
Lois M. Winsky, Ph.D.	Neuroendo/Neuroimmuno, Psychopharm	(301) 443-5288	lwinsky@mail.nih.gov

Clinical Neuroscience Branch [Schizophrenia,
Mood and Other Behavioral Disorders (SMBD)]

Steven J. Zalcman, M.D.	Branch Chief	(301) 443-1692	szalcman@mail.nih.gov
Debra J. Babcock, M.D., Ph.D.	Integrative Neuroscience of SMBD	(301) 443-3563	dbabcock@mail.nih.gov
Douglas L. Meinecke, Ph.D.	Molecular and Cellular Basis of SMBD	(301) 443-1692	dmeineck@mail.nih.gov
Judith M. Rumsey, Ph.D.	Developmental Neuroscience of SMBD	(301) 443-1692	jrumsey@mail.nih.gov

Behavioral Science Research Branch

Mary Ellen Oliveri, Ph.D.	Branch Chief, Personality and Soc Cog	(301) 443-9400	moliver1@mail.nih.gov
Susan Brandon, Ph.D.	Affect and Biobehavioral Regulation	(301) 443-9400	sbrandon@mail.nih.gov
Howard S. Kurtzman, Ph.D.	Cognitive Science	(301) 443-9400	kurtzman@nih.gov

DNBBS Extramural Research Offices

Human Genetics and Genomic Resources Office

Steven O. Moldin, Ph.D.	Director, and Gen Basis of Mental Dsrdrs	(301) 443-9869	smoldin@mail.nih.gov
Mary E. Farmer, M.D.	Human Genetic Init, Genetic Resources	(301) 443-9869	mfarmer@mail.nih.gov

Research Training and Career Development Office

Nancy L. Desmond, Ph.D.	Research Training & Career Development	(301) 443-3563	ndesmond@mail.nih.gov
Mary F. Curvey	Individual Fellowships (F30, F31 and F32)	(301) 443-3107	mcurvey@mail.nih.gov
Debra K. Wynne, M.S.W.	Research Training & Career Development	(301) 443-3563	dwynne1@mail.nih.gov

NATIONAL INSTITUTE OF MENTAL HEALTH (Cont'd.)

Translational Research and Scientific Technology Office

Michael F. Huerta, Ph.D.	Director, and Neurotechnology	(301) 443-3563	mhuert1@mail.nih.gov
Margaret C. Grabb, Ph.D.	SBIR, STTR & Sm Bus Tech Transfer	(301) 443-3563	mgrabb@mail.nih.gov
Laurie S. Nadler, Ph.D.	Basic Neuroscience Centers	(301) 443-5414	lnadler@mail.nih.gov

NIMH Office on Neuroinformatics

Stephen H. Koslow, Ph.D.	Director	(301) 443-1815	skoslow@mail.nih.gov
Michael D. Hirsch, Ph.D.	Associate Director	(301) 443-1815	mhirsch@mail.nih.gov

NIMH Office for Special Populations

Ernest D. Márquez, Ph.D.	Director	(301) 443-2847	marquez1@mail.nih.gov
Robert A. Mays, Ph.D.	Health Science Administrator	(301) 443-2847	rmays@mail.nih.gov
Michael A. Sesma, Ph.D.	Research Scientist Development	(301) 443-2847	msesma@mail.nih.gov

NATIONAL INSTITUTE OF NEUROLOGICAL DISORDERS AND STROKE (NINDS)**The Neuroscience Center****6001 Executive Boulevard****Bethesda, MD 20892****(For street address/overnight carriers use Rockville, MD 20852)**Division of Extramural Research

Constance W. Atwell, Ph.D.	Director	(301) 496-9248	ca23c@nih.gov
Cynthia McCormick, Ph.D.	Deputy Director	(301) 496-9248	mccormic@ninds.nih.gov
Henry Khachaturian, Ph.D.	Training, Career Development	(301) 496-4188	khachath@ninds.nih.gov

Channels, Synapses & Circuits

Daofen Chen, Ph.D.	Circuits	(301) 496-1917	daofen_chen@nih.gov
Margaret P. Jacobs	Epilepsy	(301) 496-1917	jacobsm@ninds.nih.gov
Yuan Liu, Ph.D.	Channels, Comput Nsci, International Act	(301) 496-1917	liuyuan2@ninds.nih.gov
Randall Stewart, Ph.D.	Synapses	(301) 496-1917	stewatr@ninds.nih.gov

Clinical Trials

John R. Marler, M.D.	Associate Director	(301) 496-9135	john_marler@nih.gov
Robin Conwit, M.D.	Clinical Neurophys & N Electro.	(301) 496-3104	conwitr@ninds.nih.gov
Janice Cordell, R.N.	Clinical Trials	(301) 451-4299	cordellj@ninds.nih.gov
Peter Gilbert, Sc.M.	Clinical Trials	(301) 496-0870	gilbertp@ninds.nih.gov
Deborah Hirtz, M.D.	Devl Disord, Autism & Child Neurology	(301) 496-5821	deborah_hirtz@nih.gov
Claudia Moy, Ph.D.	Epidemiology	(301) 496-2789	moyc@ninds.nih.gov
Barbara Radziszewska, Ph.D.	Stroke & Clinical Trials	(301) 496-2076	br94h@nih.gov
Bernard Ravina, M.D.	Clinical Trials, Movement Disorders	(301) 451-5893	br128g@nih.gov

Neural Environment

Thomas P. Jacobs, Ph.D.	Stroke, CNS Barriers,	(301) 496-1431	jacobst@ninds.nih.gov
Michael Nunn, Ph.D.	Neuro-AIDS, Neurol, Prions, Para & Bac	(301) 496-1431	nunm@ninds.nih.gov
Ursula Utz, Ph.D.	Neuroimmunology and Multiple Sclerosis	(301) 496-1431	utzu@ninds.nih.gov

NATIONAL INSTITUTE OF NEUROLOGICAL DISORDERS AND STROKE (Cont'd.)

Neurodegeneration

Diane Murphy, Ph.D.	Neurodegeneration	(301) 496-5680	dm152o@nih.gov
Eugene J. Oliver, Ph.D.	Alzhr, Hntgtn & Parkinson Disease	(301) 496-5680	eugene_oliver@nih.gov
Paul Sheehy, Ph.D.	Neurophysiology	(301) 496-5329	ps32h@nih.gov

Neurogenetics

Robert Finkelstein, Ph.D.	Genetics of Neurological Disorders	(301) 496-5745	rf45c@nih.gov
Katrina Gwinn-Hardy, M.D.	Genetics of Neurological Disorders	(301) 496-5745	kg127a@nih.gov
Gabrielle LeBlanc, Ph.D.	Developmental Neuroscience	(301) 496-5745	gabrielle_leblanc@nih.gov
Laura A. Mamounas, Ph.D.	Neurotrophic Factors in Neural Rep & Dev	(301) 496-1447	mamounas@ninds.nih.gov
Danilo Tagle, Ph.D.	Neurogenetics	(301) 496-5745	daniilot@ninds.nih.gov

Repair & Plasticity

Arlene Chiu, Ph.D.	Stem Cells, Repair, Nervous System	(301) 496-1447	chiua@ninds.nih.gov
Mary Ellen Michel, Ph.D.	Traumatic Brain Injury	(301) 496-1447	mm108w@nih.gov
Naomi Kleitman, Ph.D.	Spinal Cord Injury & Repair	(301) 496-1447	kleitman@ninds.nih.gov

Systems & Cognitive Neuroscience

Emmeline Edwards, Ph.D.	Behavioral & Cognitive Neuroscience	(301) 496-9964	ee48r@nih.gov
Merrill M. Mitler, Ph.D.	Sleep Disorders, Dev Psych, Circad Rhyth	(301) 496-9964	mitterm@ninds.nih.gov
Paul L. Nichols, Ph.D.	Behavioral Genetics, Periph Neuropathy	(301) 496-9964	nicholsp@ninds.nih.gov
Linda Porter, Ph.D.	Pain Processing, Management & Diseases	(301) 496-0658	porterl@ninds.nih.gov

Technology Development

Robert W. Baughman, Ph.D.	Associate Director	(301) 496-1779	baughmar@ninds.nih.gov
Jill Heemskerker, Ph.D.	Technology Development	(301) 496-1779	heemskej@ninds.nih.gov
Thomas Miller, Ph.D.	Technology Development	(301) 496-1779	tm208y@nih.gov
James Stables, M.S.	Anticonvulsant Screening	(301) 496-1846	stablesj@ninds.nih.gov

Office of Minority Health and Research

Alfred W. Gordon, Ph.D.	Associate Director	(301) 496-3102	ag38x@nih.gov
Ronnie Horner, Ph.D.	Res & Training Pgms in Health Disparities	(301) 496-2581	rh266m@nih.gov
David Jett, Ph.D.	Minority Populations & Health Disparities	(301) 496-6035	dj140o@nih.gov
Gayathri Jeyarasasingam, Ph.D.	Center Grants, Fellowships, Education	(301) 496-5489	gj62v@nih.gov

NATIONAL INSTITUTE ON DRUG ABUSE (NIDA)**The Neuroscience Center****6001 Executive Boulevard****Bethesda, MD 20892****(For street address/overnight carriers use Rockville, MD 20852)**Division of Neuroscience and Behavioral Research

David Shurtleff, Ph.D.	Acting Division Director	(301) 443-1887	david_shurtleff@nih.gov
Paul Schnur, Ph.D.	Acting Deputy Director for Program	(301) 443-1887	pschnur@mail.nih.gov
M. Beth Babecki, M.A.	Postdoctoral Training	(301) 443-1887	beth_babecki@nih.gov
Charles W. Sharp, Ph.D.	Training, Inhalants, Immunology & AIDS	(301) 443-1887	charles_sharp@nih.gov
Karen Skinner, Ph.D.	Science & Technology Development	(301) 443-1887	ks79x@nih.gov

NATIONAL INSTITUTE ON DRUG ABUSE (Cont'd.)

Behavioral and Cognitive Neurosciences Research Branch

Minda Lynch, Ph.D.	Branch Chief, Anml Mdls, Assoc Mechs	(301) 443-1263	ml24g@nih.gov
Susan Volman, Ph.D.	Neural Systems, Dvlpmnt & Plasticity	(301) 443-1263	svolman@mail.nih.gov
Cora Lee Wetherington, Ph.D.	Gndr, Vlnrbilty, Prenatal, Women's Hlth	(301) 443-1263	cw84g@nih.gov

Chemistry and Physiological Systems Research Branch

Rao S. Rapaka, Ph.D.	Branch Chief	(301) 443-6300	rr82u@nih.gov
Paul Hillery, Ph.D.	Chemistry, Drug Supply	(301) 443-6300	paul_hillery@nih.gov
Hari Singh, Ph.D.	Chemistry, Drug Supply	(301) 443-6300	hari_singh@nih.gov
Pushpa Thadani, Ph.D.	Prenatal, Neuro, Developmental	(301) 443-6300	pt24e@nih.gov

Genetics and Molecular Neurobiology Research Branch

Jonathan Pollock, Ph.D.	Branch Chief, Cell Biol, Dev, Genetics	(301) 443-6300	jp183r@nih.gov
Christine M. Colvis, Ph.D.	Signal Transduction, Proteomics	(301) 443-6300	ccolvis@nida.nih.gov
Robert D. Riddle, Ph.D.	Developmental Neuroscience	(301) 443-6300	rriddle@nida.nih.gov
Joni L. Rutter, Ph.D.	Human Genetics, Pharmacogenetics	(301) 443-6300	jrutter@mail.nih.gov

Pharmacology, Integrative and Cellular Neurobiology Research Branch

Nancy S. Pilotte, Ph.D.	Br Chf, Cocaine, Persist/Neuroplastic Efx	(301) 443-6975	nancy_pilotte@nih.gov
Jerry Frankenheim, Ph.D.	Vulnerability, Hallucinogens, PCP	(301) 443-6975	jf79o@nih.gov
Geraline Lin, Ph.D.	Psychoneuropharmacology, Opiates	(301) 443-6975	geraline_lin@nih.gov
Woody (Yu) Lin, Ph.D.	Glutamate and Opiates	(301) 443-6975	ylin1@mail.nih.gov

Translational Research Branch

William Corrigan, Ph.D.	Branch Chief	(301) 443-6975	wcorriga@nida.nih.gov
Thomas Aigner, Ph.D.	Cognitive, Primates	(301) 443-6975	tom_aigner@nih.gov
Allison Chausmer, Ph.D.	Nicotine, Tobacco	(301) 443-6975	achausme@nida.nih.gov
David Thomas, Ph.D.	Opiates, Electrophysiology & Pain	(301) 443-6975	david_thomas@nih.gov
Herbert Weingartner, Ph.D.	Cognitive Science	(301) 443-6975	herbw@nih.gov

Division of Treatment and Research Development

Frank Vocci, Ph.D.	Division Director	(301) 443-6173	fvocci@nida.nih.gov
Richard Hawks, Ph.D.	Deputy Director	(301) 443-6173	rh77q@nih.gov

Chemistry & Pharmaceuticals Branch

Nora Chiang, Ph.D.	Branch Chief	(301) 443-5280	nchiang@nida.nih.gov
Rik Kline, Ph.D.	Medicinal Chemistry & Molecular Model	(301) 443-8293	rkline@nida.nih.gov
Moo Park, Ph.D.	Pharmaceuticals and Clinical Supply	(301) 443-9813	mpark@nida.nih.gov
Steven Oversby, Ph.D.	Clin Trials, Nicotine, Opiates, Marijuana	(301) 435-0762	soversby@mail.nih.gov

Clinical Neurobiology Branch

Joseph Frascella, Ph.D.	Branch Chief, Human Neurosci, Imaging	(301) 443-4877	jf80t@nih.gov
Harold W. Gordon, Ph.D.	Bioetiology, Genetics, Individual Diff	(301) 443-4877	hg23r@nih.gov
Steven J. Grant, Ph.D.	Cog Neurosci, Clin Neurobiol, Neuroimag	(301) 443-4877	sg103h@nih.gov
Ro Nemeth-Coslett, Ph.D.	Clin Neurobio, NeuroAIDS, Nropsypharm	(301) 443-4877	rn29e@nih.gov
Laurence Stanford, Ph.D.	Develop Neurobiology & Neuroimaging	(301) 443-4877	lstanfor@nida.nih.gov

NATIONAL INSTITUTE ON DRUG ABUSE (Cont'd.)

Medications Research Grants Branch

Jamie Biswas, Ph.D.,	Branch Chief	(301) 443-5280	jbiswas@nida.nih.gov
Maria Dorota Majewska, Ph.D.	Clin Trials, Cocaine, Methamphetamine	(301) 443-9807	mm158w@nih.gov
Ivan Montoya, M.D.	Clin Trials, Nicotine, Opiates, Marijuana	(301) 443-8639	imontoya@mail.nih.gov

Medications Discovery & Toxicology Branch

David McCann, Ph.D.	Branch Chief	(301) 443-2999	dmccann@nih.gov
Jane B. Acri, Ph.D.	Cocaine Treatment Discovery	(301) 443-8489	jacri@nih.gov
Nathan Appel, Ph.D.	Methamphetamine Treatment Discovery	(301) 443-8475	nappel@nih.gov
Naresh Chand, Ph.D.	Toxicology & Drug Development	(301) 443-8895	nc114c@mail.nih.gov
Hirsch Davis, M.A.	Cocaine Treatment Discovery	(301) 443-8849	hdavis@nida.nih.gov
Amrat Patel, Ph.D.	Opioid Treatment Discovery	(301) 443-8476	apatel@nih.gov
James Terrill, Ph.D.	Toxicology & Drug Development	(301) 443-8289	jt62r@nih.gov

NATIONAL INSTITUTE ON DEAFNESS AND OTHER COMMUNICATION DISORDERS (NIDCD)**Executive Plaza South, Room 400C****6120 Executive Boulevard
Rockville, MD 20892-7180**

Judith A. Cooper, Ph.D.	Language	(301) 496-5061	cooperj@nidcd.nih.gov
Barry Davis, Ph.D.	Chemical Senses (Olfaction & Gustation)	(301) 402-3461	davisb1@nidcd.nih.gov
Amy M. Donahue, Ph.D.	Hearing (Periphery, Cochlear Implants)	(301) 402-3458	donahuea@nidcd.nih.gov
Nancy Freeman, Ph.D.	Hearing (Molecular Biology, Development)	(301) 402-3458	freemann@nidcd.nih.gov
A. Julianna Gulya, M.D.	Clinical Trials	(301) 435-4085	gulyaj@nidcd.nih.gov
Matthew Hayat, Ph.D.	Biostatistics	(301) 402-1843	hayatm@nidcd.nih.gov
Howard Hoffman, M.A.	Epidemiology	(301) 402-1843	hoffmanh@nidcd.nih.gov
Lynn E. Luethke, Ph.D.	Hearing (CNS, Hearing Aids), SBIR/STTR	(301) 402-3458	luethkel@nidcd.nih.gov
Roger L. Miller, Ph.D.	Prosthetic Device Development	(301) 402-3461	millerr@nidcd.nih.gov
Christopher Platt, Ph.D.	Balance & Vestibular Sciences	(301) 496-1804	platte@nidcd.nih.gov
Lana O. Shekim, Ph.D.	Voice, Speech	(301) 496-5061	shekiml@nidcd.nih.gov
Daniel A. Sklare, Ph.D.	Research Training & Career Development	(301) 402-3458	dklared@nidcd.nih.gov
Bracie Watson, Ph.D.	Hearing (Genetics, Otitis Media)	(301) 402-3458	watsonb@nidcd.nih.gov

NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM (NIAAA)**Willco Building, Room 402****6000 Executive Boulevard
Rockville, MD 20892-7003**

Sam Zakhari, Ph.D.	Dir, Division of Basic Research	(301) 443-0799	sz14w@nih.gov
Mark Egli, Ph.D.	Behavioral Neuroscience	(301) 594-6382	me114r@nih.gov
Laurie Foudin, Ph.D.	Fetal Alcohol Syndrome	(301) 443-4224	lf29z@nih.gov
Diane L. Lucas, Ph.D.	Neuroimmunology, Neuroendocrinology	(301) 443-8744	dl254g@nih.gov
Lisa Neuhold, Ph.D.	Molecular Genetics	(301) 443-4223	ln81s@nih.gov
Antonio Noronha, Ph.D.	Chief, Neurosci & Behavior Branch	(301) 443-7722	an26s@nih.gov
Denise A. Russo, Ph.D.	Chief, Biomedical Research Branch	(301) 402-9403	dr188r@nih.gov
Roger Sorensen, Ph.D.	Neurochem, Neurotox, & Mol Pharmacol	(301) 443-2678	rs364b@nih.gov
Dennis A. Twombly, Ph.D.	Neurophysiology & Pharmacology	(301) 443-9334	dt143j@nih.gov
Ellen D. Witt, Ph.D.	Biobehavior	(301) 443-4223	ew47t@nih.gov

**NATIONAL INSTITUTE ON AGING (NIA)
Gateway Building, Room 3C307
7201 Wisconsin Avenue
Bethesda, MD 20892-9205**

Marcelle Morrison-Bogorad, Ph.D	Assoc Dir, Neur of Aging Program	(301) 496-9350	morrisom@nia.nih.gov
Dallas W. Anderson, Ph.D.	Population Studies of Alzh Disease	(301) 496-9350	andersda@nia.nih.gov
Neil S. Buckholtz, Ph.D.	Drug Disc & Diagnosis of Alzh Disease	(301) 496-9350	buckholn@nia.nih.gov
Judith A. Finkelstein, Ph.D.	Sensory & Motor Disorders, Nutrition	(301) 496-9350	finkelsj@nia.nih.gov
Elisabeth Koss, Ph.D.	Alzheimer's Disease Centers, mgmt	(301) 496-9350	kosse@nia.nih.gov
Marilyn M. Miller, Ph.D.	Etiology of Alzheimer's Disease, Genetics	(301) 496-9350	millerm@nia.gov
Susan E. Molchan, M.D.	Alzheimer's Disease: Clinical Trials	(301) 496-9350	molchans@mail.nih.gov
Andrew A. Monjan, Ph.D.	Integ Nbiol; Sleep/Biol Rhythms	(301) 496-9350	monjana@nia.nih.gov
Creighton H. Phelps, Ph.D.	Alzheimer's Disease Centers	(301) 496-9350	phelpsc@nia.nih.gov
D. Stephen Snyder, Ph.D.	Etiol Alzh Disease: Cell & Molec Biol	(301) 496-9350	snyderd@nia.nih.gov
Molly V. Wagster, Ph.D.	Neuropsychology of Aging	(301) 496-9350	wagsterm@nia.nih.gov
Bradley C. Wise, Ph.D.	Fundamental Neuroscience	(301) 496-9350	wiseb@nia.nih.gov

**NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT (NICHD)
Executive Building
6100 Executive Boulevard
Bethesda, MD 20892-7510**

Beth M. Ansel, Ph.D.	Traumatic Brain Injury & Stroke	(301) 402-2242	ba25e@nih.gov
Louis V. DePaolo, Ph.D.	Reproductive Sciences Branch	(301) 496-6515	ld38p@nih.gov
Lisa S. Freund, Ph.D.	Child Development & Behavior	(301) 435-6879	lf88x@nih.gov
Gilman D. Grave, M.D.	Endocrinology, Nutrition & Growth	(301) 496-5593	gg37v@nih.gov
Deborah B. Henken, Ph.D.	Dev Biol, Genetics & Teratology	(301) 496-5541	dh50g@nih.gov
Carol E. Nicholson, M.D.	Pediatric Critical Care & Rehab	(301) 402-2242	cn103e@nih.gov
Ralph M. Nitkin, Ph.D.	Biol Sciences & Career Development	(301) 402-2242	rn21e@nih.gov
Louis A. Quatrano, Ph.D.	Behav Sci & Rehab Engineering Technol	(301) 402-2242	lq2n@nih.gov
Nancy Shinowara, Ph.D.	Sp Cord and Musc-skel Dis & Assist Dev	(301) 402-2242	ns57v@nih.gov
Ljubisa Vitkovic, Ph.D.	Mental Retardation & Dev Disabilities	(301) 402-1822	lv5g@nih.gov
Marian Willinger, Ph.D.	Pregnancy & Perinatology	(301) 496-5575	mw75q@nih.gov

**NATIONAL EYE INSTITUTE (NEI)
Executive Plaza South, Suite 350
6120 Executive Boulevard
Bethesda, MD 20892**

Loré Anne McNicol, Ph.D.	Dir, Division of Extramural Research	(301) 451-2020	lm27f@nih.gov
Peter A. Dudley, Ph.D.	Retinal Diseases	(301) 451-2020	pad@nei.nih.gov
Chyren L. Hunter, Ph.D.	Oculomotor Sys/Retina/Neuro-Ophthal	(301) 451-2020	clh@nei.nih.gov
Ellen S. Liberman, Ph.D.	Glaucoma	(301) 451-2020	esl@nei.nih.gov
Andrew P. Mariani, Ph.D.	Fundamental Retinal Processes	(301) 451-2020	apm@nei.nih.gov
Michael D. Oberdorfer, Ph.D.	Strabismus, Amblyopia & Visual Proc	(301) 451-2020	mdo@nei.nih.gov

**NATIONAL INSTITUTE OF DENTAL AND CRANIOFACIAL RESEARCH (NIDCR)
Natcher Building
45 Center Drive
Bethesda, MD 20892-6401**

John W. Kusiak, Ph.D.	Molecular and Cellular Neurobiology	(301) 594-7984	kusiakj@mail.nih.gov
-----------------------	-------------------------------------	----------------	----------------------

NATIONAL HEART, LUNG AND BLOOD INSTITUTE (NHLBI)

**Two Rockledge Center
6701 Rockledge Drive
Bethesda, MD 20892-7940**

John Fakunding, Ph.D.	Heart Research	(301) 435-0505	fakundij@nih.gov
Dorothy B. Gail, Ph.D.	Lung Biology & Disease	(301) 435-0222	gaild@nih.gov
Carl E. Hunt, M.D.	National Center on Sleep Disorders	(301) 435-0199	huntc@nhlbi.nih.gov
Teri A. Manolio, M.D.	Epidemiology & Biometry	(301) 435-0707	teri_manolio@nih.gov
Denise Simons-Morton, M.D.	Clinical Appl & Prevention.	(301) 435-0384	simonsd@nhlbi.nih.gov
Sonia I. Skarlatos, Ph.D.	Vascular Biology Research	(301) 435-0545	ss90g@nih.gov
John T. Watson, Ph.D.	Clinical and Molecular Medicine	(301) 435-0519	watsonj@nhlbi.nih.gov
Gail G. Weinmann, M.D.	Airway Biol & Diseases	(301) 435-0202	weinmang@nih.gov

NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES (NIGMS)

**Natcher Building
45 Center Drive
Bethesda, MD 20892-6200**

James J. Anderson, Ph.D.	Genetics of Physiological Adaptive Sys	(301) 594-0943	andersoj@nigms.nih.gov
Alison E. Cole, Ph.D.	Anaesthesiol, Systems and Training	(301) 594-3349	colea@nigms.nih.gov
Laurie Tompkins, Ph.D.	Neurogenetics and Genetics of Behavior	(301) 594-0943	tompkin@nigms.nih.gov

NATIONAL CENTER FOR RESEARCH RESOURCES (NCRR)

**One Democracy Plaza
6701 Democracy Blvd.
Bethesda, MD 20892-4874**

Louise E. Ramm, Ph.D.	Deputy Director	(301) 435-0879	ramml@mail.nih.gov
Anthony Hayward, M.D., Ph.D.	Clinical Research	(301) 435-0791	haywarda@mail.nih.gov
Michael Marron, Ph.D.	Biomedical Technology	(301) 435-0753	marronm@mail.nih.gov
Sidney McNairy, D.Sc.	Research Infrastructure	(301) 435-0786	mcnairys@mail.nih.gov
John Strandberg, DVM, Ph.D.	Comparative Medicine	(301) 435-0884	strandbj@mail.nih.gov

NATIONAL INSTITUTE OF BIOMEDICAL IMAGING AND BIOENGINEERING (NIBIB)

**6707 Democracy Blvd., Suite 202
Bethesda, MD 20892-5469**

John Haller, Ph.D.	Neuroimaging, Neurosurgery	(301) 451-4780	hallerj@mail.nih.gov
William J. Heetderks, MD, Ph.D.	Neural Prostheses, Information Proc	(301) 496-9388	heetderw@mail.nih.gov
Peter M. Lyster, PhD	Neuroinformatics, Data Mining & Intgrn	(301) 496-8543	lysterp@mail.nih.gov
Grace C.Y. Peng, PhD	Neuroengineering, Modeling, Analysis	(301) 496-9178	penggr@mail.nih.gov
Meredith Temple, Ph.D.	Training	(301) 451-4792	templem@mail.nih.gov

NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES (NIEHS)

**Building 3
Post Office Box 12233
Research Triangle Park, NC 27709**

Annette G. Kirshner, Ph.D.	Neurobehavioral Toxicology	(919) 541-0488	kirshner@niehs.nih.gov
Cindy P. Lawler, Ph.D.	Molecular Neurosciences	(919) 316-4671	lawler@niehs.nih.gov

NATIONAL INSTITUTE OF NURSING RESEARCH (NINR)

**One Democracy Plaza
6701 Democracy Blvd
Bethesda, MD 20892-4870**

Kathy Mann Koepke, Ph.D. Neurofunction & Sensory Conditions (301) 496-9623 koepkek@mail.nih.gov

FOGARTY INTERNATIONAL CENTER (FIC)

**Building 31C, Room B2C39
31 Center Drive, MSC 2220
Bethesda, MD 20892**

Kenneth Bridord, M.D.	Dir, Div International Training & Research	(301) 496-1653	ken_bridbord@nih.gov
Joshua Rosenthal, Ph.D.	Deputy Director (and Biodiversity)	(301) 496-2516	joshua_rosenthal@nih.gov
Flora Katz, Ph.D.	Genetics, Informatics	(301) 496-1653	flora_katz@nih.gov
Jeanne McDermott, Ph.D.	AIDS, Maternal & Child Health	(301) 496-1653	mcdermoj@mail.nih.gov
Kathleen Michels, Ph.D.	Neuroscience Cluster	(301) 496-1653	kathleen_michels@nih.gov
Rachel Nugent, Ph.D.	Social Science, Economics & Health	(301) 496-1653	rachel_nugent@nih.gov
Aron Primack, M.D.	Cancer, Tobacco	(301) 496-1653	aron_primack@nih.gov
Barbara Sina, Ph.D.	Infectious Diseases, Bioethics	(301) 496-1653	sinab@mail.nih.gov
Chris Schonwalder, Ph.D.	Environmental Health	(919) 541-4794	chris_schonwalder@nih.gov

NATIONAL SCIENCE FOUNDATION (NSF)

**4201 Wilson Boulevard
Arlington, VA 22230**

Radhakishan Baheti, Ph.D.	Controls, Networks & Comp Intelligence	(703) 292-8339	rbaheti@nsf.gov
Mitra Basu, Ph.D.	Computational Biology	(703) 292-8980	mbasu@nsf.gov
Lynne E. Bernstein, Ph.D.	Cognitive Neuroscience	(703) 292-8732	lberstei@nsf.gov
Geoffrey Birchard, Ph.D.	Sens Systems & Computational Neurosci	(703) 292-8420	gbirchar@nsf.gov
Steven J. Breckler, Ph.D.	Social Psychology & Sci of Learning Ctrs	(703) 292-8728	sbreckle@nsf.gov
H. Jane Brockmann	Animal Behavior	(703) 292-7862	hbrockma@nsf.gov
James French, Ph.D.	Science & Engineering Informatics	(703) 292-8930	jfrench@nsf.gov
Michael D. Greenfield	Animal Behavior	(703) 292-8421	mgreenfi@nsf.gov
Bruce K. Hamilton, Ph.D.	Bioengineering & Environmental Syst	(703) 292-8230	bhamilto@nsf.gov
P. Wyn Jennings, Ph.D.	Graduate Education & Res Traineeship	(703) 292-8696	pjennin@nsf.gov
Herbert Levitan, Ph.D.	Course, Curriculum & Lab Improvement	(703) 292-8670	hlevitan@nsf.gov
Soo-Siang Lim, Ph.D.	Neuronal & Glial Mechanisms	(703) 292-8423	slim@nsf.gov
Carol Lucas, Ph.D.	Biomedical Eng & Persons w Disabilities	(703) 292-5356	clucas@nsf.gov
Reynaldo Patino	Integrative Animal Biology	(703) 292-8421	rpertino@nsf.gov
Michael Pazzani, Ph.D.	Information & Intelligent Systems	(703) 292-8930	mpazzani@nsf.gov
Nathaniel Pitts, Ph.D.	Office of Integrative Activities	(703) 292-8040	npitts@nsf.gov
Judith E. Plesset	Developmental Neuroscience	(703) 292-8417	jplesset@nsf.gov
Lynn Preston, Ph.D.	Engineering Research Centers	(703) 292-5358	lpreston@nsf.gov
Edwina Rissland, Ph.D.	Artificial Intell & Cognitive Science	(703) 292-8930	erisslan@nsf.gov
Gerald Selzer, Ph.D.	Multi-User Biol Equip & Inst Dvlpmnt	(703) 292-8470	gselzer@nsf.gov
Gregg Solomon, Ph.D.	Research on Learning & Education	(703) 292-8333	gesolomo@nsf.gov
Sylvia Spengler, Ph.D.	Sci & Eng Info, Tree of Life, Info Tech Res	(703) 292-8930	sspengle@nsf.gov
Michael Steuerwalt, Ph.D.	Applied Mathematics	(703) 292-8870	msteuerw@nsf.gov
Fred Stollnitz, Ph.D.	Cross-Directorate Activities	(703) 292-8413	fstollnit@nsf.gov
Bruce Umminger, Ph.D.	Senior Scientist, Science & Technol Centers	(703) 292-8040	bumminge@nsf.gov
Guy Van Orden, Ph.D.	Human Cognition & Perception	(703) 292-8732	gvanorde@nsf.gov
Mark Weiss, Ph.D.	Physical Anthropology	(703) 292-7321	mweiss@nsf.gov
Paul Werbos, Ph.D.	Controls, Networks and Comp Intelligence	(703) 292-8339	pwerbos@nsf.gov

NATIONAL SCIENCE FOUNDATION (Cont'd.)

Kenneth Whang, Ph.D.	Comp Neurosci & Sci of Learning Ctrs	(703) 292-5149	kwhang@nsf.gov
William E. Winner	Ecological and Evolutionary Physiology	(703) 292-8421	wwinner@nsf.gov
Diane Witt, Ph.D	Neuroendocrinology & Behavioral Nsci	(703) 292-8423	dwitt@nsf.gov
William E. Zamer	Ecological and Evolutionary Physiology	(703) 292-8421	wzamer@nsf.gov
Manfred Zorn, Ph.D.	Biological Databases & Informatics	(703) 292-8470	mzorn@nsf.gov

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)

NASA Headquarters
300 "E" Street S.W.
Washington, DC 20546-0001

Terri Lomax, Ph.D.	Fundamental Space Biology	202-358-1418	terri.lomax@nasa.gov.
David L. Tomko, Ph.D.	Biomedical Research & Countermeasures	(202) 358-2211	dtomko@hq.nasa.gov

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)

801 North Randolph Street, Room 703
Arlington, VA 22203-1977

Hugh C. DeLong, Ph.D.	Biomimetic Sensors	(703) 696-7722	hugh.delong@afosr.af.mil
Genevieve M. Haddad, Ph.D.	Chemistry and Life Sciences	(703) 696-7733	gen.haddad@afosr.af.mil
Sharon Heise, Ph.D.	Dynamics and Control	(703) 696-7796	sharon.heise@afosr.af.mil
Walter J. Kozumbo, Ph.D.	Biological Programs	(703) 696-7720	walt.kozumbo@afosr.af.mil
Willard Larkin, Ph.D.	Sensory Systems	(703) 696-7783	willard.larkin@afosr.af.mil
Arje Nachman, Ph.D.	Phys Mathematics & Appl Analysis	(703) 696-8427	arje.nachman@afosr.af.mil
Clifford E. Rhoades, Ph.D.	Math and Space Sciences	(703) 696-7797	clifford.rhoades@afosr.af.mil
Robert D. Sorkin, Ph.D.	Perception & Cognition	(703) 696-6563	robert.sorkin@afosr.af.mil
John Tangney, Ph.D.	Cmplx Human Perf, and Info Fusion	(703) 696-6563	john.tangney@afosr.af.mil
Paul Truelove, Ph.D.	Biomaterials	(703) 696-7787	paul.truelove@afosr.af.mil
Juan Vasques, Ph.D.	Optimization & Discrete Mathematics	(703) 696-8431	juan.vasques@afosr.af.mil

U.S. ARMY RESEARCH INSTITUTE

5001 Eisenhower Avenue
Alexandria, VA 22333-5600

Paul A. Gade, Ph.D.	Chief, Basic Research Office	(703) 617-8866	gade@ari.army.mil
---------------------	------------------------------	----------------	-------------------

DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)

3701 North Fairfax Drive
Arlington, VA 22203-1714

John M. Carney, Ph.D.	Unconventional Pathogen Countermeasures	(703) 696-4641	jcarney@darpa.mil
Eric Eisenstadt, Ph.D.	Bio:Info:Micro	(703) 696-2322	eeisenstadt@darpa.mil
Douglas W. Gage, Ph.D.	Robotics Software	(703) 696-1122	dgage@darpa.mil
Kurt A. Henry, M.D.	Advanced Consequence Management	(571) 218-4543	khenry@darpa.mil
Michael Krihak, Ph.D.	Bioflips	(571) 218-4246	mkrihak@darpa.mil
Alan S. Rudolph, Ph.D.	Controlled Biosystems	(703) 696-2240	arudolph@darpa.mil

OFFICE OF NAVAL RESEARCH (ONR)
800 North Quincy Street
Arlington, VA 22217

Stephen T. Ahlers, Ph. D	Casualty Prevention	(703) 696-0367	ahlerss@onr.navy.mil
Joel L. Davis, Ph. D	Adaptive Neural Systems / Adaptive Control	(703) 696-4744	davisjl@onr.navy.mil
Christine Eisemann, Ph. D	Dep Dir, Medical Science & Technology Dept	(703) 696-2660	eisemac@onr.navy.mil
Michael B. Given, Ph. D	Casualty Care and Management	(703) 696-4055	givenm@onr.navy.mil
Harold E. Guard, Ph. D	Head, Human Sys Sci & Tech Department	(703) 696-4501	guardh@onr.navy.mil
Harold L. Hawkins, Ph. D	Image Analysis	(703) 696-4323	hawkinh@onr.navy.mil
Robert A. Matthews, Ph. D	Deputy Head, Human Sys Sci & Tech Dept	(703) 696-4058	matther@onr.navy.mil
Thomas M. McKenna, Ph. D	Neural Computation / Adaptive Control	(703) 696-4503	mckennt@onr.navy.mil
Michael F. Shlesinger, Ph. D	Nonlinear Dynamics	(703) 696-4220	shlesim@onr.navy.mil
Timothy J. Singer, Ph. D	Dir, Medical Science & Technology Department	(703) 696-4038	singert@onr.navy.mil
David R. Street, Ph D	Healthy and Fit Force	(703) 696-4502	streetd@onr.navy.mil
Willard S. Vaughan, Ph. D	Dir, Cog & Neural Bio Sci & Tech Division	(703) 696-4505	vaughw@onr.navy.mil

NIMH Neuroscience and Behavioral Science Centers Programs

All areas of basic and clinical science encompassed by the Division of Neuroscience and Basic Behavioral Science, NIMH, are appropriate for pursuit under grants from the Silvio O. Conte Neuroscience Centers and the Interdisciplinary Behavioral Science Centers Programs. These Programs support hypothesis-driven research centers. Each center is expected to bring the best scientific talent and resources from multiple disciplines and perspectives to address significant, specific questions in basic or clinical neuroscience through highly interactive and synergistic projects and cores.

Conte Centers for Neuroscience Research (1) and Conte Centers for the Neuroscience of Mental Disorders (2) are intended to support centers based on mature collaborations, with the latter requiring a basic-clinical translational component. Conte Centers to Develop Collaborative Neuroscience Research (3) support similar efforts in which the collaborations are newly formed. Interdisciplinary Behavioral Science Centers (4) support collaborative, hypothesis-driven basic research activities that extend the most cutting-edge theories and approaches in basic behavioral science to incorporate current approaches in neuroscience. For further information:

- 1) <http://grants1.nih.gov/grants/guide/pa-files/PAR-02-121.html>
- 2) <http://grants1.nih.gov/grants/guide/pa-files/PAR-02-122.html>
- 3) <http://grants1.nih.gov/grants/guide/pa-files/PAR-02-123.html>
- 4) <http://grants1.nih.gov/grants/guide/pa-files/PAR-04-004.html>

Basic Neuroscience Centers

Laurie S. Nadler, Ph.D.
 (301) 443-3563
lnadler@mail.nih.gov

Clinical Neuroscience Centers

Steven J. Zalcman, M.D.
 (301) 443-1692
szalcman@mail.nih.gov

Behavioral Science Centers

Molly Oliveri, Ph.D.
 (301) 443-3942
moliveri@nih.gov

NOTICE: Names Have Changed for Neuroscience Study Sections

In an effort to make the review focus of study sections more transparent, the Center for Scientific Review (CSR) at NIH has given names to study sections that were previously designated by their Integrated Review Group (IRG) affiliation and a number (*e.g.*, IFCN-1 through IFCN-8 for study sections in the Integrated, Functional and Cognitive Neuroscience IRG). Reviewer membership and review focus remain unchanged.

Previous Acronym	New Acronym	New Study Section Name
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Brain Disorders and Clinical Neuroscience (BDCN)

BDCN-1	CND	Clinical Neuroscience and Disease
BDCN-2	CNNT	Clinical Neuroplasticity and Neurotransmitters
BDCN-3	CDIN	Cell Death and Injury in Neurodegeneration
BDCN-4	CNBT	Clinical Neuroimmunology and Brain Tumors
BDCN-5	DBD	Developmental Brain Disorders
BDCN-6	NPAS	Neural Basis of Psychopathology, Addictions, and Sleep Disorders
VISA	AED	Anterior Eye Disease

Integrative, Functional and Cognitive Neurosciences (IFCN)

IFCN-1	NMB	Neurobiology of Motivated Behavior
IFCN-2	NNB	Neuroendocrinology, Neuroimmunology, and Behavior
IFCN-3	BRS	Biological Rhythms and Sleep
IFCN-4	SCS	Somatosensory and Chemosensory Systems
IFCN-5	SMI	Sensorimotor Integration
IFCN-6	AUD	Auditory System
IFCN-7	LAM	Neurobiology of Learning and Memory
IFCN-8	COG	Cognitive Neuroscience
VISB	CVP	Central Visual Processing
ALTX-3	NAL	Neurotoxicology and Alcohol

Molecular, Cellular and Developmental Neuroscience (MDCN)

MDCN-1	SYN	Synapses, Cytoskeleton, and Trafficking
MDCN-2	NDBG	Neurodegeneration and the Biology of Glia
MDCN-3	BSCT	Biophysics of Synapses, Channels and Transporters
MDCN-4	NTRC	Neurotransporters, Receptors, and Calcium Signaling
MDCN-5	MNPS	Molecular Neuropharmacology and Signaling
MDCN-6	NCF	Neurogenesis and Cell Fate
MDCN-7	NDPR	Neurodifferentiation, Plasticity, and Regeneration

**CENTER FOR SCIENTIFIC REVIEW (CSR)
NATIONAL INSTITUTES OF HEALTH
6701 Rockledge Drive
Bethesda, MD 20892**

Scientific Review Administrators of the Neuroscience Integrated Review Groups (IRGs)

Brain Disorders and Clinical Neuroscience (BDCN) IRG

David Armstrong, Ph.D.	CND	IRG Chief, <i>and</i> Clin Neurosci and Disease	(301) 435-1253	armstrda@csr.nih.gov
William Benzing, Ph.D.	CNNT	Clin Neuroplasticity & Neurotransmitters	(301) 435-1254	benzingw@csr.nih.gov
J. Jay Cinque, Ph.D.	NPAS	Psychopath, Addictions & Sleep Disorders	(301) 435-1252	cinquej@csr.nih.gov
Rene Etcheberrigaray, Ph.D.	SBIR	BDCN Small Business Innovation Research	(301) 435-1246	etcheber@csr.nih.gov
Jay Joshi, Ph.D.	CNBT	Clinical Neuroimmuno & Brain Tumors	(301) 435-1184	joshij@csr.nih.gov
Christine Livingston, Ph.D.	AED	Anterior Eye Disease		livingsc@csr.nih.gov
David Simpson, Ph.D.	CDIN	Cell Death and Injury in Neurodegen	(301) 435-1278	simpsond@csr.nih.gov
Sherry Stuesse, Ph.D.	DBD	Developmental Brain Disorders		
	F01	<i>and</i> BDCN Fellowships	(301) 435-1785	stuesses@csr.nih.gov

Integrative, Functional and Cognitive Neuroscience (IFCN) IRG

Christine Melchior, Ph.D.		IRG Chief	(301) 435-1713	melchioc@csr.nih.gov
John Bishop, Ph.D.	SMI	Sensorimotor Integration		
	F02B	<i>and</i> IFCN Fellowships Section B	(301) 435-1250	bishopj@csr.nih.gov
Maribeth Champoux, Ph.D.	F02A	IFCN Fellowships Section A	(301) 594-3163	champoum@csr.nih.gov
Gamil C. Debbas, Ph.D.	NMB	Neurobiology of Motivated Behavior	(301) 435-1018	debbasg@csr.nih.gov
Bernard Driscoll, Ph.D.	LAM	Neurobiology of Learning and Memory	(301) 435-1242	driscolb@csr.nih.gov
Daniel Kenshalo, Ph.D.	SCS	Somatosensory & Chemosensory Systems	(301) 435-1255	kenshald@csr.nih.gov
Joseph Kimm, Ph.D.	AUD	Auditory System	(301) 435-1249	kimmj@csr.nih.gov
Richard Marcus, Ph.D.	NNB	Neuroendo, Neuroimmuno, and Behavior		
	BRS	<i>and</i> Biological Rhythms and Sleep	(301) 435-1245	marcusr@csr.nih.gov
Joseph Rudolph, Ph.D.	NAL	Neurotoxicology and Alcohol	(301) 435-2212	rudolphj@csr.nih.gov
Michael Steinmetz, Ph.D.	COG	Cognitive Neuroscience		
	CVP	<i>and</i> Central Visual Processing	(301) 435-1247	steinmem@csr.nih.gov

Molecular, Cellular and Developmental Neuroscience (MDCN) IRG

Carole Jelsema, Ph.D.	F03B	IRG Chief <i>and</i> MDCN Fellowships Sect B	(301) 435-1248	jelsemac@csr.nih.gov
Lawrence Baizer, Ph.D.	NCF	Neurogenesis & Cell Fate	(301) 435-1257	lbaizer@csr.nih.gov
Carl Banner, Ph.D.	SYN	Synapses, Cytoskeleton, & Trafficking	(301) 435-1251	bannerc@csr.nih.gov
Toby Behar, Ph.D.	NDBG	Neurodegeneration & the Biology of Glia	(301) 435-4433	behart@csr.nih.gov
Mary Custer, Ph.D.	SSS-E	MDCN Neurotechnology & Bioeng		
	F03A	<i>and</i> MDCN Fellowships Section A	(301) 435-1256	custerm@csr.nih.gov
Joanne Fujii, Ph.D.	NDPR	Neurodifferentiation, Plasticity, and Regen	(301) 435-1178	fujii@csr.nih.gov
Peter Guthrie, Ph.D.	NTRC	Neurotransporters, Receptors, & Ca ⁺⁺ Sgnl	(301) 435-1239	guthriep@csr.nih.gov
Syed Husain, Ph.D.	MNPS	Molecular Neuropharmacology and Sgnl	(301) 435-1224	husains@csr.nih.gov
Michael Lang, Ph.D.	BSCT	Biophys Synapses, Channels & Trnsprtrs	(301) 435-1265	langm@csr.nih.gov

Division of Receipt and Referral

Suzanne Fisher, Ph.D.	Director	(301) 435-0715	fishers@csr.nih.gov
M. Janet Newburgh, Ph.D.	Deputy Director	(301) 435-0715	newburgj@csr.nih.gov
Narayani Ramakrishnan, Ph.D.	Assistant Chief of Referral	(301) 435-0715	ramakrin@csr.nih.gov
Kalman Salata, Ph.D.	Assistant Chief of Referral	(301) 435-0715	salatak@csr.nih.gov
Ronald Suddendorf, Ph.D.	Assistant Chief of Referral	(301) 435-0715	suddendr@csr.nih.gov
Carol Campbell, Ph.D.	Health Scientist Administrator	(301) 435-1080	campbelc@csr.nih.gov

Scientific Areas of Integrated Review Groups (IRGs)

Brain Disorders and Clinical Neuroscience

The six Brain Disorders and Clinical Neuroscience Cluster (BDCN) Study Sections review a wide range of applications all of which have, as their main focus, neural disorders and/or injury of the nervous system. Investigations appropriate for review in BDCN Study Sections may include those using animal models of neural injury or disease, may be based on the study of specific patient populations, or may be focused on the development of rehabilitative and therapeutic strategies. Specific areas of interest of the BDCN Study Sections include the investigation of traumatic brain or spinal cord injury, the consequences of episodes of ischemia or hypoxia, the study of mental disorders, neurodegenerative diseases, and other neuropathies. These specific areas of interest may be studied from the perspective of neuroanatomical or neurophysiological alterations, changes in neurotransmitter or neurotrophin function or metabolism, the genetic, cellular, or molecular basis of alterations induced by disease or injury, the influence or involvement of the immune or vascular systems in a neural disease process or response, and the neurological basis of addictive, cognitive, behavioral, and emotional disorders.

CND Clinical Neuroscience and Disease reviews applications relating to the anatomical and functional basis of neural disease and injury across the life span. Emphasis is on the neural substrate, functional consequences (cognitive, sensory/motor, behavioral, pathophysiological), rehabilitation, and the development of therapeutic strategies. Relevant disorders include stroke/ischemia, neurodegenerative diseases, epilepsy, spinal cord injury, traumatic brain injury, dystonia/ataxia, and neuropathies. This study section considers relevant animal models and patient-oriented research.

CNNT Clinical Neuroplasticity and Neurotransmitters reviews applications in the area of neural disease and injury across the life span that focus on neurotransmitter or neurotrophic function. This includes studies of plasticity, regeneration, and therapeutic strategies. Relevant disorders include stroke/ischemia, neurodegenerative diseases, epilepsy, spinal cord injury, traumatic brain injury, dystonia/ataxia, and neuropathies. Studies may involve animal models and patient-oriented research.

CDIN Cell Death and Injury in Neurodegeneration reviews applications relating to the genetic, molecular, and cellular basis of neural disorders and injury across the life span. This includes studies of neuronal cell death and protein and macromolecular function in neurodegenerative disease. Relevant disorders include stroke/ischemia, neurodegenerative diseases, epilepsy, spinal cord injury, traumatic brain injury, dystonia/ataxia, and neuropathies. This study section can review studies of in vitro systems, animal models, and patient-oriented research.

CNBT..Clinical Neuroimmunology and Brain Tumors reviews applications related to central and peripheral nervous system disorders, including neuromuscular disorders, and injury across the life span where the focus is on infections, immune, inflammatory or vascular mechanisms. The scope of investigations ranges from in vitro and animal models to human studies and patient-oriented research. Examples of relevant disorders include: multiple sclerosis, myasthenia gravis, infectious diseases of the nervous system, spinal cord and brain injury, inflammatory neuropathies and myopathies, stroke, multi-infarct dementia, subarachnoid hemorrhage, and nervous system tumors.

DBD Developmental Brain Disorders reviews disorders that impact specifically on the developing brain and spinal cord. This includes genetic, metabolic, infectious, environmental, and behavioral influences on the fetal, neonatal or pediatric brain that lead to abnormal brain development and function. The study section has clinical and basic expertise in the vulnerability and plasticity of the developing brain, and can review patient-oriented research in children and relevant animal models.

NPAS Neural Basis of Psychopathology, Addictions, and Sleep Disorders reviews applications on the neurobiological basis of addictive, behavioral, cognitive and emotional disorders across the life span. It covers a very broad range of topics including structural, functional, electrophysiological, biochemical, pharmacological, neuroanatomical, neuroendocrine, neurotoxicological, physiological, genetic, and neuropsychological aspects of these disorders.

AED Anterior Eye Disease reviews basic, applied, and clinical research on the anterior portion of the eye (cornea, lens, ciliary body, lacrimal gland) and its disorders, including glaucoma, cataracts, congenital and developmental abnormalities, inflammatory and infectious diseases; hereditary and degenerative diseases, and ocular manifestations of systemic diseases, tumors, injury, and trauma

Integrative, Functional, and Cognitive Neuroscience

The ten Integrative, Functional, and Cognitive Neuroscience (IFCN) Study Sections consider applications focused on a very wide range of questions in neuroscience. A common theme of these applications is an overall aim of furthering our understanding of how the nervous system is organized and functions at an integrative, systems level. Specific areas reviewed in IFCN Study Sections include studies of the neural basis of emotional and motivational behavior; regulation of function, at the systems level, by neuroendocrine and neuroimmune influences; the analysis of system function under varying behavioral states, such as sleep and hibernation; the basis of biological rhythms; the maintenance of homeostasis by the autonomic nervous sys-

tem; chemosensation, hearing, balance, touch and somatosensation; motor systems and sensorimotor integration; the integration of multisensory information; the development and alteration of memory and other cognitive processes that accompany aging; computational and theoretical models of cognitive processes; mechanisms underlying neural coding of complex stimuli (e.g., pattern recognition, spatial transformations, speech perception); and attention and its effects on information processing in the nervous system. Research proposed in applications reviewed by IFCN Study Sections may have relevance to disorders or disease processes, but the emphasis would be on the effect of the process on the structure or function of the system under investigation, rather than on the disease process itself.

NMB Neurobiology of Motivated Behavior reviews applications on the neural basis of behavior, such as motivation and emotion. Studies include the molecular, cellular, anatomical, genetic and neurobehavioral bases of motivated and emotional behavior. Emphasis is on the neurobiologic processes (genetic, molecular, developmental, maturation and aging) underlying neuronal circuits critical to the mediation of positively and negatively motivated behavior.

NNB Neuroendocrinology, Neuroimmunology, and Behavior is concerned with the regulation of brain and behavior across the life span by neuroendocrine and neuro-immune systems. Studies include the molecular, cellular, anatomical, genetic and neurobehavioral. Mechanisms include: cyclic secretions, transport across blood-brain-barrier (BBB), and hormonal effects on gene expression and homeostatic processes. Preclinical analysis of basic mechanisms underlying neurotoxicity and pathogenesis of neuroendocrine and neuroimmune systems are considered. This includes plasticity, development, maturation and aging in neuroendocrine and neuroimmune systems in both physiological and pathological states. Brain mechanisms underlying addictive, environmental and social influences on the endocrine and immune systems are also of interest.

BRS Biological Rhythms and Sleep reviews applications in a number of areas of integrative, regulatory and behavioral neuroscience across the life span. These include behavioral states, such as wakefulness, sleep, hibernation and variations in arousal level; biological rhythms, including temporal cycles such as ultradian, circadian, infradian and circannual rhythms; and regulatory mechanisms underlying homeostasis, including thermoregulation and other functions of the autonomic nervous system. Applications on the relationship of drug administration, use, and withdrawal on homeostasis are reviewed here. Levels of analysis include genetic/molecular studies, cellular and circuit studies, oscillatory mechanisms, neurobehavioral and neuropharmacological investigations on the whole organism. Emphasis is on integrative studies of mechanisms, functions or neurobehavioral manifestations, but may include studies of single cells, and the development of animal models.

SCS Somatosensory and Chemosensory Systems reviews applications on structure and function of sensory and perceptual systems, including chemosensation, pain and analgesia and somatosensation. Emphasis is on integrative systems approaches to understanding normal sensory function; dysfunction; development, maturation and aging; recovery from injury; perceptual and sensory perturbations; as well as drug and other factors.

SMI Sensorimotor Integration reviews applications on the structure and function of motor, balance control and sensory-motor integration. Emphasis is on integrative systems approaches to understanding normal sensory-motor or motor function, development, maturation and aging, dysfunction and recovery from injury.

AUD Auditory System reviews applications on the structure and function of the auditory and vestibular systems and the integration of multisensations. Emphasis is on integrative systems approaches to understanding hearing, balance and the integration of normal sensory-sensory function, development, maturation and aging, dysfunction and recovery from injury.

LAM Neurobiology of Learning and Memory reviews applications on the neurobiological structures, mechanisms, and principles underlying specific aspects of learning, memory, and associated neural plasticity. The scope of this committee is broad, including studies of the molecular and cellular changes, functional circuitry, and neural coding and integration that underlie learning and memory processes, as well as their disorders. Particular emphasis is placed on studies that directly relate behavioral/cognitive processes to their neural substrates.

COG Cognitive Neuroscience reviews a broad range of applications on the neurobiological mechanisms and principles underlying cognitive functions other than learning and memory. The scope of the committee is broad, including molecular and cellular mechanisms, functional circuitry, and neural coding and integration that underlie behavioral/cognitive processes as well as their disorders. Particular emphasis is placed on studies that directly relate behavioral/cognitive processes to their neural substrates

CVP Central Visual Processing reviews basic, applied, and clinical research on the visual pathways of the brain, eye, and extraocular muscle system that function in visual sensation and related eye movements in both normal vision and visual or visual-motor deficits, low vision, blindness, myopia, amblyopia, strabismus, neuro-ophthalmic and extraocular (muscular, orbital) disorders

NAL Neurotoxicology and Alcohol Effects of toxicants and alcohol on the central nervous system, including behavior, neuropathology, neurophysiology, neuropharmacology, neuroendocrinology, neuroimmunology, and neuroteratology.

Molecular Cellular and Developmental Neuroscience

The nine Molecular, Cellular, and Developmental Neuroscience (MDCN) Study Sections have in common an interest in the basic mechanisms by which neuronal, glial, and neuromuscular structure and function are determined as well as applications that focus on aspects of both central and peripheral nervous system development. Areas of interest include the functional characteristics of ion channels, the mechanisms by which extra- and intracellular signals are transduced and the functional characteristics of the transducers themselves, general mechanisms underlying the process of cell death, analyses of neural cell lineage, factors that specify or influence neuronal migration pathways or axonal pathfinding, processes that involve the maturation of neurons and glia, the formation of patterns and boundaries that lead to the development of adult brain regions and nuclei, and other aspects of the basic cellular and molecular physiology of neurons and glia. Any of the lines of investigation reviewed in the MDCN Study Sections may be relevant to disorders or injuries, but the emphasis lies less in gaining an understanding of the disorder or its manifestations than on revealing the basic biological processes that underlie or may be altered in disorder.

SYN Synapses, Cytoskeleton, and Trafficking reviews applications in basic neuronal cell biology including synaptic plasticity, protein and organelle trafficking, and cytoskeletal functions across the life span. Emphasis is on fundamental mechanisms of neuronal cell function, including those relevant to disease processes.

NDBG Neurodegeneration and the Biology of Glia reviews applications involving cell-surface and extracellular matrix molecules in cell recognition and function; regulation of cell cycle and programmed cell death; mapping novel transcripts and functional analysis of cloned gene products involved in cell survival or death; aspects of oxidative metabolism; glial-neuronal interactions (Schwann cells, oligodendrocytes, astrocytes, microglia); mechanisms of glial differentiation, metabolism, and myelination; neuro-immune function across the life span. The roles of genetic factors, trophic molecules and extrinsic influences (including toxins and addictive substances) in these processes, and aspects of disease, injury, repair and interventional strategies are considered.

BSCT Biophysics of Synapses, Channels and Transporters reviews applications on neuronal and muscle signal transduction where the primary focus is on the structure and function of the transducers themselves. This includes basic studies of subunit structure, molecular dynamics, gating and selectivity, and second-messenger cascades. General approaches may include molecular and structural biology, pharmacology, biophysics, electrophysiology, and protein chemistry, imaging and labeling techniques. Emphasis is on fundamental molecular mechanisms, including those relevant to disease processes.

NTRC Neurotransporters, Receptors, and Calcium Signaling reviews studies of neuronal and muscle signal transduction pathways with particular emphasis on cellular regulation and physiology. This includes studies on calcium physiology, regulation of ionic gradients, ion pumps and molecular transporters, and synthesis and regulation of transduction molecules. Studies may integrate molecular, cellular, electrophysiological, and imaging approaches to examine molecular regulation, transduction, biochemical changes, cellular physiology, and functional consequences. Emphasis is on fundamental cellular mechanisms, including those relevant to disease processes.

MNPS Molecular Neuropharmacology and Signaling reviews projects on neuronal and muscle signal transduction and neurotransmitters with a particular focus on neurochemical and pharmacological mechanisms. This includes studies of ligand interactions, neuromodulator interactions, neurotransmitter metabolism, and the development of therapeutic compounds. Emphasis is on fundamental cellular mechanisms, including those relevant to disease processes.

NCF Neurogenesis and Cell Fate reviews applications concerned with the initial formation of, as well as cell specification and differentiation in the developing nervous system. Areas to be included are induction of neural tissue; brain region specification and patterning; stem cell and progenitor cell proliferation and phenotypic determination, and neuronal and glial differentiation. Emphasis is on fundamental mechanisms underlying these processes in normal development, and in response to disease, injury, and extrinsic factors, including prenatal exposure to drugs.

NDPR Neurodifferentiation, Plasticity, and Regeneration applications focused on migratory events; and the development, aging, and regeneration of neuronal connectivity. This area includes neuronal and glial migration, process outgrowth, axon guidance, selection of synaptic targets, establishment of neural maps, and formation and elimination of synaptic connections. Emphasis is on fundamental mechanisms underlying these processes in normal development and aging, and in response to disease, injury, and extrinsic factors, including prenatal exposure to drugs. The study section also reviews studies of the reestablishment of connectivity in aging, disease, and following injury, but with a focus on the analysis of cellular and molecular mechanisms that stimulate, inhibit, or otherwise perturb process growth and synapse formation.

Neuroscience Fellowships

The Center for Scientific Review (CSR) now reviews applications for individual National Research Service Awards [NRSA] in dedicated fellowship study sections:

F30 and **F31** applications [pre-doctoral awards]

F32 applications [post-doctoral awards]

F33 applications [senior fellowship awards]

N.B. This change in CSR review practice does not affect fellowship applications reviewed by a specific Institute.

The new plan does not affect the review criteria for fellowship applications. Application submission and review processes also are unaffected. Additional information in the form of review criteria for specific grant application types is available online to help applicants prepare their applications. Any questions regarding assignments should be directed to the Division of Receipt and Referral (DRR), CSR, at (301) 435-0715. These and all other questions pertaining to the review process may also be directed to the Scientific Review Administrator (SRA) responsible for the appropriate study section. A list of SRAs and meeting dates for each of these new fellowship study sections is available at

<http://www.csr.nih.gov/studysec.htm>

F01 Brain Disorders and Clinical Neuroscience. The specific areas of interest listed below may be studied from the perspective of neuroanatomical or neurophysiological alterations, changes in neurotransmitter or neurotrophin function or metabolism, the genetic, cellular, or molecular basis of alterations induced by disease or injury, the influence or involvement of the immune or vascular systems in a neural disease process or response, and the neurological basis of addictive, cognitive, behavioral, and emotional disorders. Areas include: neural disorders and/or injury of the nervous system; animal models of neural injury or disease; studies of neural disorders or injury based on specific patient populations; the development of rehabilitative and therapeutic strategies; investigation of traumatic brain or spinal cord injury; studies of the consequences of episodes of ischemia or hypoxia; study of mental disorders, neurodegenerative diseases, and other neuropathies

F02A Integrative, Functional and Cognitive Neuroscience A. Specific areas of interest for this study section focus on the limbic system. Key areas are: neural basis of behavior such as motivation, emotion, learning and memory; neuroendocrinology; neuroimmunology; circadian rhythms and neurotoxicology.

F02B Integrative, Functional and Cognitive Neuroscience B. Specific areas of interest for this study section focus on sensory systems. Key areas are: Chemosensation; Pain; Somatosensory function; Motor function; Sensorimotor function; Vestibular function, hearing, vision, multi-sensory systems, and higher cortical function.

F03A Molecular, Cellular and Developmental Neuroscience A. Areas of interest for this study section include basic neuronal cell biology with an emphasis on fundamental mechanisms of neuronal cell function, including those relevant to disease processes. These areas also include applications concerned with the initial formation of, as well as cell specialization and differentiation in, the developing nervous system. Migratory events and the development, aging, and regeneration of neuronal connectivity are covered. Key areas, as they relate to neuronal systems, are: synaptic plasticity; trafficking; protein assembly; cytoskeleton; membrane recycling; progenitor and stem cells; development; regeneration/apoptosis; differentiation; axon outgrowth; glial biology; transcriptional regulation; cell cycle; myelination and regeneration.

F03B Molecular, Cellular and Developmental Neuroscience B. The area encompassed by this study section includes neuronal and muscle signal transduction, with a focus on both the structure and function of the transducers themselves, as well as cellular regulation/physiology and neurochemical and pharmacological mechanisms. Key areas, as they relate to neuronal systems, are: signal transduction; model systems; protein structure/function; second messengers; electrophysiology; ion transport; transporters; imaging; calcium; gap junctions; connexins; ion channels; neuromodulators; ligand-activated pathways; neurotransmitter synthesis and neuropharmacology.

Neuroscience Predoctoral Research Training

Several NIH Institutes are jointly sponsoring the neuroscience predoctoral research training program. The aim of the program is to encourage and support broad training in the neurosciences by offering Institutions a single comprehensive training grant. Support through the program is focused on the early years of training before full-time thesis research is started. Trainees are expected to be participants in a formal predoctoral curriculum offering broad and fundamental training in the neurosciences.

For further information please contact:

Henry Khachatryan, Ph.D.

Phone: (301) 496-4188

Fax: (301) 594-5929

E-mail: khachath@ninds.nih.gov

Full text of the program announcement can be found at:

<http://www.nih.gov/grants/guide/pa-files/PAR-0037.html>

Training Contact Information at the National Institutes of Health

Extramural Program Contacts in Roman TypeIntramural Program Contacts in *Italic* TypeInstitutes supporting **neuroscience-related** research and research training activities are listed in **boldface type**

Institute or Center	Contact	Phone	E-mail
Office of the Director, NIH (OD)	Walter Schaffer <i>Brenda Hanning</i>	(301) 435-2687 <i>(301) 496-2427</i>	ws11q@nih.gov <i>hanningb@od.nih.gov</i>
National Institute of Mental Health (NIMH)	Debra K. Wynne <i>Barry Kaplan</i>	(301) 443-3563 <i>(301) 451-4512</i>	dwynnel@nih.gov <i>barry.kaplan@nih.gov</i>
National Institute of Neurological Disorders and Stroke (NINDS)	Henry Khachaturian	(301) 496-4188	khachath@ninds.nih.gov
National Institute on Drug Abuse (NIDA)	Cindy Miner <i>Stephen Heishman</i>	(301) 443-6071 <i>(410) 550-1547</i>	cminer@nida.nih.gov <i>heishman@nih.gov</i>
National Institute on Deafness and Other Communication Disorders (NIDCD)	Daniel A. Sklare <i>David Robinson</i>	(301) 496-1804 <i>(301) 496-1601</i>	daniel_sklare@nih.gov <i>robinsod@nidcd.nih.gov</i>
National Institute on Aging (NIA)	Robin Barr <i>Yolanda Mock</i>	(301) 496-9322 <i>(410) 558-8182</i>	rb42h@nih.gov <i>mocky@grc.nia.nih.gov</i>
National Institute of Child Health and Human Development (NICHD)	Steven Klein <i>Richard Maraia</i>	(301) 496-5541 <i>(301) 402-3567</i>	sk56d@nih.gov <i>maraiar@mail.nih.gov</i>
National Institute on Alcohol Abuse and Alcoholism (NIAAA)	Tina Vanderveen <i>Brenda Sandler</i>	(301) 443-2531 <i>(301) 496-9843</i>	tv9f@nih.gov <i>sandlerb@niaaa.nih.gov</i>
National Center for Research Resources (NCRR)	David Wilde	(301) 435-0790	wilded@ncrr.nih.gov
National Institute of Environmental Health Sciences (NIEHS)	Carol Shreffler <i>William Schrader</i>	(919) 541-1445 <i>(919) 541-3433</i>	shreffl1@niehs.nih.gov <i>schrader@niehs.nih.gov</i>
John E. Fogarty International Center (FIC)	Kathleen Michels Aron Primack	(301) 496-1653 <i>(301) 496-4596</i>	michelsk@mail.nih.gov <i>aron_primack@nih.gov</i>
National Institute of General Medical Sciences (NIGMS)	John Norvell	(301) 594-0533	norvellj@nigms.nih.gov
National Eye Institute (NEI)	Chyren Hunter <i>Belinda Davis</i>	(301) 451-2020 <i>(301) 451-6763</i>	clh@nei.nih.gov <i>davisb@intra.nei.nih.gov</i>
National Heart, Lung, and Blood Institute (NHLBI)	Helena Mishoe <i>Herbert Geller</i>	(301) 451-5081 <i>(301) 451-9440</i>	mishoeh@nhlbi.nih.gov <i>gellerh@nhlbi.nih.gov</i>
National Institute of Dental and Craniofacial Research (NIDCR)	<i>Sharon Gordon</i>	<i>(301) 402-0799</i>	<i>nidcrtraining@mail.nih.gov</i>
National Institute of Nursing Research (NINR)	Nell Armstrong <i>Melinda Tinkle</i>	(301) 594-5973 <i>(301) 402-3583</i>	armstron@mail.nih.gov <i>tinklem@mail.nih.gov</i>
National Center for Complementary and Alternative Medicine (NCCAM)	Nancy J. Pearson <i>Marc Blackman</i>	(301) 594-0519 <i>(301) 435-6760</i>	pearsonn@mail.nih.gov <i>blackmam@mail.nih.gov</i>
National Institute of Biomedical Imaging and Bioengineering (NIBIB)	Meredith Temple	(301) 451-4792	templem@mail.nih.gov
National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)	Judith Podskalny Louis Simchowiz	(301) 594-8876 <i>(301) 435-8901</i>	jp53s@nih.gov <i>ls347f@nih.gov</i>
National Cancer Institute (NCI)	Carolyn Strete <i>Jonathan Wiest</i>	(301) 496-8580 <i>(301) 451-1611</i>	cstrete@mail.nih.gov <i>wiestj@mail.nih.gov</i>
National Human Genome Research Institute (NHGRI)	Bettie Graham <i>Ron King</i>	(301) 496-7531 <i>(301) 402-2537</i>	bettie_graham@nih.gov <i>rjk@mail.nih.gov</i>
National Institute of Allergy and Infectious Diseases (NIAID)	Milton Hernandez <i>Wendy Fibison</i>	(301) 496-3775 <i>(301) 496-6400</i>	mh35c@nih.gov <i>wfibison@niaid.nih.gov</i>
National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)	Richard Lymn <i>Mario Cerritelli</i>	(301) 594-5128 <i>(301) 402-1552</i>	lymnr@mail.nih.gov <i>cerritem@mail.nih.gov</i>
National Library of Medicine (NLM)	Carol Bean	(301) 496-4621	beanc@mail.nlm.nih.gov

The Division of Neuroscience and Basic Behavioral Science is responsible for NIMH funding of extramural research grants in the areas of basic and clinical neuroscience, genetics, therapeutics development, and basic behavioral science. We also oversee NIMH support of research training and technology research and development relevant to these areas. The goal of supporting this diverse research portfolio is to increase our understanding of the etiology, treatment, and prevention of a broad spectrum of brain-behavior disorders. If you are potentially interested in any of these programs, please call us. Our job is to help you interface efficiently and productively with NIH in the interest of furthering biomedical research. A full listing of programs and professional personnel in the Division can be found on pages 1 and 2 of this directory. Visit us at:



<http://www.nimh.nih.gov/diva/dnbbsindex.cfm>

The Behavioral and Integrative Neuroscience Research Branch supports research on the brain mechanisms underlying cognition and behavior in functional organisms and through theoretical models, with a view to understanding how cognition/behavior develops, how it is maintained, and how it is regulated.

The Molecular, Cellular, and Genomic Neuroscience Research Branch supports fundamental research on the elucidation of genetic, molecular, and cellular mechanisms underlying brain development, neuronal signaling, synaptic plasticity, the influence of hormones and immune molecules on brain function, drug discovery, and long-term actions of therapeutics for mental disorders.

The Clinical Neuroscience Research Branch supports research with emphases on the molecular, cellular and neural systems substrates of the full spectrum of mental disorders, including schizophrenia, depression, bipolar disorder, anxiety disorders, autism and other brain disorders.

The Behavioral Science Research Branch supports research on the affective, biobehavioral, cognitive, personality, and social processes that underlie behavioral functioning and development across the lifespan, including standard experimental, correlational, and longitudinal methods with human subjects, animal model approaches, and studies with physiological and neural components.

Human Genetics and Genomic Resources Office supports research on the identification, localization, function, and expression patterns of genes that produce susceptibility to mental disorders; DNA and cDNA arrays, gene chips, gene expression neuroinformatics; genomic resources for use in human and animal studies, including genome-wide projects that generate structural genetic data.

The Research Training and Career Development Office fosters the training of new investigators and enhances the career development of basic and clinical neuroscientists as well as basic behavioral scientists. Programs include institutional training grants, mentored career development awards, mental health education grants, and individual predoctoral and postdoctoral fellowships.

The Translational Research and Scientific Technology Office supports research centers that span and integrate different aspects of basic brain research, from molecules to systems. The Office also supports research and development of scientific technologies related to brain and behavioral research, including software, hardware, and wetware.