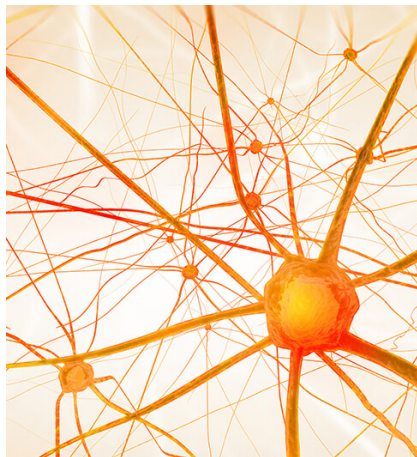


Department of Psychiatry
and Behavioral Neurosciences

Translational Neuroscience Program

*"Interdisciplinary
Training in Science"*



Handbook

2023



WAYNE STATE
School of Medicine

Welcome to the Translational Neuroscience Program - TNP

The vision of the TNP program at WSU is to inspire a new generation of biomedical investigators that is highly trained in interdisciplinary science and focused on understanding basic neural processes and function as well as improving the health and care of individuals affected by psychiatric and neurological disorders, or injuries in the nervous system through an understanding of neurobiological mechanisms. The program offers access to world-class facilities for both animal and human research enabling innovative technologies in neuroimaging, transgenic and knockout models of neurological conditions, neuropharmacological treatment interventions, brain stimulation, in brain network and computational modeling.

Our mission begins with a program that is inherently interdisciplinary with TNP faculty members specialized in basic, translational and clinical neuroscience. Students from diverse undergraduate backgrounds are exposed to a comprehensive, extensive and integrated bio-behavioral didactic curriculum. This includes courses in basic cellular, molecular and systems neurobiology, behavior and cognition, and neuroimaging. To earn a Ph.D. from the TNP, students are required to demonstrate proficiency in both conceptual and technical facets of modern biomedical research and to perform meritorious original neuroscience research on a significant and clinically relevant problem. The TNP program is fully committed to training basic and clinical neuroscientists who drive innovations to impact public health.

Specifically, the overall objectives of the TNP program include:

- Gain knowledge and understanding of basic sciences related to the neurobiology of the nervous system, brain disorders, diseases and injuries, fundamentals of neuroimaging techniques, and statistical approaches to modeling research data; all through a diverse didactic curriculum.
- Develop skills in oral and written communication, including writing an NIH predoctoral fellowship grant application, critiquing and challenging basic and clinical research findings through journal club and seminar participation, and creating and delivering oral and poster presentations of their research (e.g., at local, national and international scientific meetings, and TNP seminars).
- Design, develop and write a dissertation research prospectus with testable hypotheses and a rigorous experimental approach with guidance from an advisor and an advisory committee, conduct graduate-level research and exhibit advanced knowledge and expertise within their chosen research interest.

This handbook is a supplemental guide to the [Graduate School student handbook](#) for students who have elected to pursue their Ph.D. studies in the TNP. It is intended to reflect the spirit of our graduate training program and is not a legal document. That is, the TNP program cannot operate with a one-size fit-for-all approach because each student brings a level of uniqueness in his/her training and training environment. It may prove necessary to alter various requirements and/or procedures in response to future situations (e.g., changes in the policies of WSU Graduate School). The TNP steering committee will review the handbook periodically, and student input is welcomed.

A. Overview of training timeline and milestones

- Academic Y1-2: Required coursework.
- Academic Y1-2: Engage in research to develop the dissertation research project by conducting research rotations during Fall and Winter semesters, as well as during the summer.
- Academic Y1: Complete and submit the [Plan of Work](#) to the Graduate School for approval.
- An approved Plan of Work is a requirement for Ph.D. candidacy. Once a student has an approved Plan of Work on file with the Graduate School, any further changes are approved by the TNP Graduate Officer.
- Academic Y1: Complete the [WSU Individual Development Plan](#) (IDP), which provides a structure to identify concrete steps toward long-term goals and a framework for constructive conversation between the student and advisor(s). The WSU IDP document must be [submitted](#) annually.
- Additionally, students must complete annually the TNP Individual Development Plan (TNP IDP), which includes the Start of Year evaluation form due September 15th and the End of Year review form due May 15th.
- Academic Y2: Identify an advisor or co-advisors from the TNP faculty membership for the dissertation research project by mid-Academic Year 2.
- With guidance from the advisor(s) and the TNP Graduate Officer, students must identify members of the dissertation committee, which must be pre-approved by the TNP Graduate Director (see TNP form).
- The [dissertation committee](#) is composed of four (or five) faculty members: one advisor (or two co-advisors), one member from the TNP Steering committee, one (or two) member(s) with expertise relevant to the dissertation and one member with external expertise.
- If there are two co-advisors, then the committee must include 5 faculty members.
- The advisor (or one of the co-advisors) must have Graduate Faculty Status in the TNP, which is approved by the Graduate School.
- Academic Y2: Once a dissertation committee has been established, all students must present their dissertation research proposal and the plan of action for the NIH predoctoral fellowship application to the committee.
- The goal during Academic Y2 is to complete a draft of the Specific Aim page for the NIH predoctoral fellowship application and hold a first meeting with the committee for an oral presentation of the scope of the dissertation research project. Students MUST have a committee meeting prior to submitting the NIH F30/31 predoctoral fellowship application to present the application for review.

- Academic Y3: As part of the written component requirement of the Qualifying Examination for Ph.D. students, or the requirement for M.D./Ph.D. students, all students must write and submit an NIH F30/F31 predoctoral fellowship application (U.S. citizens only).
- Annual submission deadlines are, December 8th, April 8th and August 8th. The expectation is for students to submit their predoctoral fellowship application for the December 8th deadline in Academic Year 3.
- For non-U.S. citizens or U.S. residents, the predoctoral fellowship application will be submitted to the TNP Steering Committee for assessment by an external reviewer that is selected by the Steering committee.
- Academic Y3: By the end of the Fall semester or beginning of the Winter semester, all students must pass their Qualifying Exam, which is a requirement for Ph.D. candidacy. See below for more information on the Qualifying Examination process.
- The [Recommendation for Candidacy Status form](#) must be submitted to the Graduate School for the student to advance to candidacy.
- If a student has completed all 60 credits of coursework and is not a candidate, PYC 9990 can be taken for up to 12 credits.
- Academic Y3: Following the Qualifying Examination, all students must submit a [dissertation prospectus](#) document, approved by the dissertation committee, to the Graduate School.
- Academic Y3 – Onward: A minimum of four consecutive academic-year semesters of registration as a Ph.D. candidate (PYC 9991, 9992, 9993, 9994) are required for completion of dissertation research. Students will not be given permission to register for PYC 9991 until they have had at least one committee meeting and a date scheduled for the Qualifying Exam. Students should have 1-2 meetings with their dissertation committee each year, with the frequency of these meetings increasing as they approach the dissertation preparation and defense.
- Academic Y4 – Onward: Dissertation preparation and defense.
- With a minimum of two weeks prior to the Defense date, the dissertation thesis must be checked for plagiarism by the advisor and TNP form - Ph.D. Dissertation Uni-Check Certification – must be completed and signed, as well as submit the following forms to the [Graduate School](#): Dissertation title and list of previous degrees, Final Report, Electronic Thesis and Dissertation Permissions Form and [Conflict of Interest](#).
- All students must present their dissertation in a public lecture and defend their dissertation to the committee. The results of the defense are submitted to the Graduate School via the [Defense Final Report form](#).

The average time of completion of degree requirements for a TNP student is approximately 4.8 years. According to the Graduate School policy, the maximum time-to-degree is seven years. Under certain circumstances, an extension beyond seven years can be [requested](#) with a maximum time-to-degree of 12 years.

B. Course Requirements

All students in the TNP program are required to complete a minimum of 90 credits beyond their baccalaureate degree, which includes a minimum of 60 credits in coursework and 30 credits in dissertation research and preparation (PYC 9991, 9992, 9993, 9994). The typical number of credits in a Plan of Work for a TNP student ranges from 93-96 credits.

All students in the TNP program are required to maintain at least a 3.0 grade point average (GPA) for all coursework. A maximum of one course for which a 'C' grade was earned may be applied toward graduation requirements, provided a 3.0 average is maintained. In addition, a maximum of 2 courses for which a 'C' or lower grade was received may be repeated with approval from the Advisor and Graduate Officer.

Students are expected to complete at least three lab research rotations - course PYC 7996: Research Problems - within the first two years. Each rotation represents 3 contact/credit hours, totaling 90-120 hours/semester. Additionally, one clinical rotation, PYC 7998 - Clinical Neuroscience Rotation, must be completed during the training, which is typically taken after the passing of the qualifying exam.

The required coursework for all TNP students includes the following:

	Course Option(s)	Course Description	Credits
Responsible Conduct of Research	GS 0900	Essential Research Practices: Responsible Conduct of Research	0
Cell and Molecular Biology	IBS 7015	Interdisciplinary Cell and Molecular Biology	6
Neurobiology	PYC 7010	Neurobiology I	3
Neuroanatomy (Select one)	PSY 8060	Functional Neuroanatomy	4
	ANA 7130	Neuroanatomy	4
Neuroimaging	PYC 7140	Fundamentals of Neuroimaging	3
Disorders	PYC 7150	Fundamentals of Neuropsychiatric Disorders	3
Statistics - one introductory and one advanced course in statistics – note: a course override by the instructor will be required.	PSY 7150	Quantitative Methods in Psychology I	4
	PSY 8150	Applied Multivariate Analysis in Psychology (prerequisite PSY 7150)	4
Clinical Experience	PYC 7998	Clinical Neuroscience Rotation	3
Lab Experience	PYC 7996	Research Problems - laboratory rotations Minimum 9 credits.	3
Research Seminars	PYC 7890	Lectures/Seminars on Neuroscience Research Minimum 6 credits (4 for M.D./Ph.D. students) and maximum 8 credits.	1

Research Experience	PYC 7990	Directed Study Maximum 10 credits.	1-6
Dissertation Credits	PYC 9990	Pre-Doctoral Candidacy Research Available, if needed. Maximum 10 credits.	1-8
	PYC 9991	Dissertation Research	7.5
	PYC 9992	Dissertation Research	7.5
	PYC 9993	Dissertation Research	7.5
	PYC 9994	Dissertation Research	7.5
	PYC 9995	Dissertation Maintenance Research	0

The Directed Study course (PYC 7990) is intended to provide guided instruction between instructor and student with identified outcome measures. This mechanism can be used to learn a new technique or delve deeper into a thesis-related concept. A TNP Directed Study form must be signed and approved by the instructor and the TNP Graduate Officer.

Advanced Topic courses encompass neuroscience principles and methods, and their applications to nervous system disorders. These include any graduate level non-TNP required core courses. Minimum of 9 credits. Possible courses include, but are not limited to:

Course Options	Course Description	Credits
BME 7720	MR Imaging of Neurovascular Disease	3
IBS 7140	Foundations of Computational Biology	3
PSY 7340	Neuropathology and Behavior	3
PSY 8065	Neurophysiology and Neural Plasticity	3
PSY 8170	Structural Equation Modeling (prerequisite PSY 7160)	3
PSY 7160	Psychometrics and Factor Analysis	3
PYC 7515	Advanced Topics: Imaging, Neurodevelopment and Psychiatric Disorders	3
PYC 7500	Advanced Topics; Formal course with syllabus and well-defined outcome measures generated by an instructor(s) with potential input by students.	3

A maximum of 10 Cr. can be taken per Fall or Winter semester, with an optional 1-2 Cr. in the Spring/Summer semester.

As a graduate program with research as the focus of training, it is expected that all students engage in research with an advisor during the Spring/Summer semester. This is viewed as protected time to prepare and conduct dissertation research, or work on the predoctoral fellowship grant application.

Students are required to seek advice from the Graduate Officer, on his/her course selection. All course work must be completed according to requirements of the [WSU Graduate School](#). The WSU [Graduate Bulletin](#) includes a complete listing and description of graduate courses offered at WSU.

Typical examples of a Plan of Work include the following:

Year 1 - Fall: 10 credits

Interdisciplinary Cell and Molecular Biology - IBS 7015 (6 Cr.)

Research Seminar - PYC 7890 (1 Cr.)

Research Problems - PYC 7996 (3 Cr.)

Year 1 - Winter: 10 credits

Fundamentals of Neuroimaging - PYC 7140 (3 Cr.)

Research Problems - PYC 7996 (3 Cr.)

Neurobiology I - PYC 7010 (3 Cr.)

Research Seminar - PYC 7890 (1 Cr.)

Year 2 - Fall: 10 credits

Functional Neuroanatomy - PSY 8060 (4 Cr.)

Quantitative Methods in Psychology I - PSY 7150 (4 Cr.)

Research seminar - PYC 7890 (1 Cr.)

Year 2 - Winter: 10 credits

Applied Multivariate Analysis in Psychology - PSY 8150 (4 Cr.)

Research Problems - PYC 7996(3 Cr.)

Directed Study- PYC 7990 (2 Cr.)

Research seminar - PYC 7890 (1 Cr.)

C. Qualifying Examination and Ph.D. Candidacy

The Qualifying Examination determines whether the student has an adequate command of knowledge in the field of study and can organize, apply, and convey that knowledge. The examination covers the applicant's major and minor areas. The student must have an approved Plan of Work on file with the Graduate School and must have had at least one thesis committee meeting before taking the Qualifying Examination. Successful completion of the examination is one of the requirements for attaining Ph.D. candidacy.

The Qualifying Examination Committee, which, in most cases, is the dissertation committee, is composed of four (or five) faculty members that includes the advisor, one member from the TNP Steering committee, one (or two) member(s) with expertise relevant to the dissertation and one member with outside expertise.

The Qualifying Examination consists of a written AND an oral examination.

Written Qualifying Examination

The written component requirement of the Qualifying Examination for Ph.D. TNP students is the NIH F30/F31 predoctoral fellowship application document. For M.D./Ph.D. TNP students, the written requirement is satisfied by taking the USMLE Step I examination prior to entering the Ph.D. program. See supplement attachment for a "Checklist for NRSA Predoctoral (F30/F31) Fellowship Applications".

The dissertation prospectus proposal cannot be used to satisfy the written qualifying examination requirement. Coursework cannot be counted towards the written exam.

Oral Examination Requirement

An oral examination is required of all Ph.D. students, which includes the presentation of the prospectus (dissertation research project). That is, the student orally presents the dissertation research project and answers questions posed by the student's examination committee.

If the student does not successfully complete the oral examination at its first administration, the examining committee may recommend that the student repeat the examination. The second examination may not be held until at least four months have passed but must be held within one calendar year following the first examination. The same examining committee must preside over both examinations. The second oral examination will be considered final.

Candidacy Requirements

Attainment of degree candidacy is a major milestone in the Ph.D. process. The requirements for advancement from Ph.D. applicant to degree candidate are as follows:

- Approval of the Plan of Work by the Graduate School
- Completion of at least 50 credit hours of didactic coursework required on the Plan of Work
- Satisfactory completion of the Qualifying Exam(s)*
- Establishment of the dissertation advisory committee — its membership may change until the time the prospectus is submitted.

**If the Oral Examination is part of the final Qualifying Examination, it must be completed within 60 days of the written exam.*

**The dissertation prospectus cannot be used to satisfy the written Qualifying Examination requirement.*

The Recommendation for Ph.D. Candidacy Status form is submitted to the Graduate School, and when completion of all requirements has been verified, the Graduate School will advance the applicant to Ph.D. candidacy.

D. Preparation of the Dissertation Thesis and for Thesis Defense

A helpful guide on the layout and format of the dissertation thesis can be downloaded from the Graduate School website using this [link](#). Published material with student as a first- or co-author in discipline appropriate refereed journals may be incorporated into the dissertation after approval by the student's dissertation committee. For publications included in the dissertation, the Ph.D. candidate must be the principal author or have made the major contribution to the published work. In cases of co-authored papers, the text of the dissertation, most likely in the summary and conclusions, must make clear to the reader the original contributions of the author. In addition, when a paper is co-authored by those in addition to the Ph.D. candidate and the advisor, it is recommended that approval be given by the other authors for inclusion of the published materials. Students must reformat a published article for incorporation within the body of the dissertation thesis to ensure continued flow of the text. Lastly, students should be advised that incorporation of material published elsewhere require copyright permission from the copyright holder. See the Format Guidelines document for more details.

Meetings between student and dissertation committee must occur at least annually or when deemed necessary. As the student progresses towards defense of the dissertation, this frequency should increase to twice annually. The student must reach an agreement with the thesis committee as when to shift focus to dissertation writing and on the outline of the dissertation thesis.

E. TNP Individual Development Plan

Students are required to complete a TNP Individual Development Plan (TNP IDP) bi-annually. This is in addition to the [WSU IDP required by the Graduate School](#). A copy of an updated CV (following the [WSU School of Medicine](#)

[format](#)) and biosketch (following the [NIH format](#)) is required with submission of the TNP IDP. Progress will be assessed by the TNP Steering Committee.

The TNP IDP is a tool useful for developing skills in self-evaluation and goal setting. Responses to the worksheet are used for reporting progress in degree training, research, and professional development. The TNP IDP worksheet has been specifically tailored for the TNP to support student success in meeting specific program milestones and professional career goals. This document has sections for each year of training. You can copy forward and edit responses from previous years as applicable and responses in this document can be directly copied into the WSU IDP for efficiency.

Completion of the annual worksheet has two phases:

1. Start of Year (due by September 15th): Self-evaluation and goal setting. All sections of this worksheet are used at the start of the academic year, except where otherwise noted.
2. End of Year (due by May 15th): Cataloging accomplishments and annual review reporting. Returning to your goals set at the start of the year, there are specific "End of Year" portions of the worksheet. This information is used for the annual review reporting for TNP and the Graduate School.

F. Additional Guidelines and Policies

Seminar Series

Students are required to attend the TNP seminar series. Each student will have the opportunity to present a seminar on a topic related to their research topics, at least once per year.

Travel Award

Upon matriculation in the TNP, all TNP students are given a Dr. Robert J. Bernucci Travel Award of \$2,000 that can be used at any time during the training to attend and present an abstract as first author at national or international scientific meetings. These funds cannot be used for research-related expenses or as a stipend supplement.

Workload and Vacation

The official policy from the Graduate School is that students with a GRA, which applies to all TNP students, do not accrue vacation time. The TNP program does not enforce this policy, but we want to ensure that there is no abuse of excessive time away from your training. Therefore, all students must receive prior approval for any "vacation time" in writing by their advisor (or the Graduate Officer, if advisor has not been identified). This implies that the advisor has the final say in approving the time away from your training.

Classroom Attendance

Regular attendance is expected of all students in every class. Students who anticipate absences or who are unable to attend classes should inform their instructor(s) before class (or immediately following the absence) to explain their failure to attend. Excessive absence, with or without explanation, may result in failure for the course or in a reduced grade.

Whenever attendance forms a basis for a portion or all of a course grade, students must be provided with explicit written information concerning that fact during the first week of classes. Such information shall be

specific regarding the penalty incurred for each absence and the means, if any, to compensate for the absence. It should be recognized that there may be certain situations where the students may not be permitted to make up the absence(s). This policy shall be applicable to all courses within the University, regardless of setting. See the Wayne State University Graduate Bulletin for further information.

Student Disability Services

If you have a documented disability that requires accommodations, you will need to register with Student Disability Services for coordination of your academic accommodations. Please visit <https://studentdisability.wayne.edu> to register your condition. Once you have accommodations in place, please inform your instructor. Student Disability Services' mission is to assist the University in creating an accessible community where students with disabilities have an equal opportunity to fully participate in their educational experience at WSU. Student Disability Services supports students with a variety of conditions, such as mental health disorders, learning disabilities, chronic health conditions, etc.

Counseling and Psychological Services (CAPS)

It is quite common for college students to experience mental health challenges, such as stress, anxiety, and depression, that interfere with academic performance and negatively impact daily life. Help is available for any currently enrolled WSU student who is struggling with a mental health difficulty. Go to <https://caps.wayne.edu> for information on the services offered and how to access them. Other options, for students and non-students, include the Mental Health and Wellness Clinic at the College of Education (<https://education.wayne.edu/mental-health-and-wellness-clinic>). Services at all these clinics are free and confidential. Remember that getting help, before stress reaches a crisis point, is a smart and courageous thing to do – for yourself, and for those you care about. CAPS provides afterhours/weekend crisis support: students living on campus can call (313) 577-2277, and all others, call (313) 577-9982. In a life-threatening emergency, call the WSU Police at 313-577-2222.

G. Professionalism and Student of Conduct

Academic Misconduct – Plagiarism and Cheating

[Academic misconduct](#) is any activity that tends to compromise the academic integrity of the institution or undermine the education process. Examples of academic misconduct include:

- **Plagiarism:** To take and use another's words or ideas as your own without appropriate referencing or citation.
- **Cheating:** Intentionally using or attempting to use or intentionally providing unauthorized materials, information, or assistance in any academic exercise. This includes copying from another student's test paper, allowing another student to copy from your test, using unauthorized material during an exam and submitting a term paper for a current class that has been submitted in a past class without appropriate permission.
- **Fabrication:** Intentional or unauthorized falsification or invention of any information or citation, such as knowingly attributing citations to the wrong source or listing a fake reference in the paper or bibliography.
- **Other:** Selling, buying or stealing all or part of a test or term paper, unauthorized use of resources, enlisting in the assistance of a substitute when taking exams, destroying another's work, threatening or

exploiting students or instructors, or any other violation of course rules as contained in the course syllabus or other written information.

Such activity may result in failure of a specific assignment, an entire course, or, if flagrant, dismissal from Wayne State University.

Our Values

While our vision and mission show where we want to go, our values guide us on the way. They cut across organizational boundaries, bind us culturally, and permeate our strategic and tactical initiatives. They are the defining traits of the Wayne State community.

- **Collaboration:** When we work together, drawing upon various talents and perspectives, we achieve better results.
- **Integrity:** We keep our word, live up to our commitments and are accountable to ourselves and each other.
- **Innovation:** We are unafraid to try new things and learn by both failure and success.
- **Excellence:** We strive for the highest quality outcomes in everything we do.
- **Diversity and Inclusion:** We value all people and understand that their unique experiences, talents and perspectives make us a stronger organization and better people.

In sync with Wayne State University, the TNP program is fully committed to a policy of non-discrimination and equal opportunity in all its operations, admission, research and training opportunities, and program related special events and activities.

Student Code of Conduct

The mission of the School's Code of Conduct ("Code") is to promote the growth of ethically responsible students and future scientists through adherence to the highest standards of academic integrity and overall ethical conduct, to develop a sense of individual responsibility on the part of each member of the community to participate actively in maintaining such standards, to foster an environment of honor and trust within the WSU community, and to engender respect for the ethical standards of graduate students.

While representing themselves as a member of the WSU community, TNP students will maintain the highest standards of honesty and integrity. The student will strive for these standards in their representations, academic pursuits, and respect for the property and individual rights of others; will uphold the specific principles described in the Code; and will actively support the Code.

TNP Program: Student Alumni

- 2013 - June** **Eric Brown, M.D./Ph.D.**
BS in Electrical Engineering – University of Michigan
“Multi-modality assessment of language function”
Advisor: Eishi Asano, MD – Pediatrics and Neurology
- 2015 – February** **Brianne Mohl, Ph.D.**
BS in Natural Sciences – Colorado State University
“Neural alterations influencing skilled reading in ADHD: a task-based fMRI study”
Advisor: Jeffrey Stanley, Ph.D. – Psychiatry and Behavioral Neurosciences
- 2015 – June** **Dhruman Goradia, Ph.D.**
BE in Instrumentation Engineering – University of Mumbai, India
“Evidence of distinctive structural alterations that differentiate ADHD boys with and without a comorbid reading disability”
Advisor: Jeffrey Stanley, Ph.D. – Psychiatry and Behavioral Neurosciences
- 2016 - March** **Hilary Marusak, Ph.D.**
BA in Biology and Psychology – Kalamazoo College
“Childhood trauma and emotion processing neurocircuitry”
Advisor: Moriah Thomason, Ph.D. – Pediatrics
- 2016 - March** **Denise Briggs, Ph.D.**
BS in Psychology and Neuroscience – University of Michigan
“Cognitive, psychiatric, and neuropathological manifestations of repetitive mild traumatic brain injury”
Advisor: Donald Kuhn, Ph.D. – Psychiatry and Behavioral Neurosciences
- 2016 - June** **Helen Wu, M.D./Ph.D.**
BS in Biomedical Engineering – University of Michigan
“Identification of metabolite biomarkers in epilepsy using ¹H MRS”
Advisors: Jeffrey Stanley, Ph.D. – Psychiatry and Behavioral Neurosciences; Jeffrey Loeb, Ph.D. - Neurology
- 2017 - May** **Muzamil Arshad, M.D./Ph.D.**
BS in Physics – Benedictine University
“Change in processing speed and its associations with cerebral white matter microstructure”
Advisors: Naftali Raz, Ph.D. – Psychology; Jeffrey Stanley, Ph.D. – Psychiatry and Behavioral Neurosciences

- 2017 - May** **Erik Woodcock, Ph.D.**
 BS in Psychology – University of Washington (Seattle)
 “Neuropharmacological investigation of stress and nicotine self-administration among current cigarette smokers”
 Advisor: Mark Greenwald, Ph.D. – Psychiatry and Behavioral Neurosciences
- 2018 - March** **Michael Lisieski, M.D./Ph.D.**
 BS in Pharmacology and Toxicology; BA in Psychology – University of Buffalo
 “The effects of cocaine exposure on hyperactivity, susceptibility to traumatic stress, and locus coeruleus function in rats”
 Advisor: Shane Perrine, Ph.D. – Psychiatry and Behavioral Neurosciences
- 2018 - March** **Andrew Neff, Ph.D.**
 BA in Political Science – Michigan State University
 “Nutrition, the gut microbiome, and psychology: a novel method to evaluate the gut microbiome from stool, and the impact of resistant starch on the gut microbiome, metabolism, and psychology”
 Advisor: Paul Burghardt, Ph.D. – Nutrition and Food Science
- 2019 - May** **Natalie Wiseman, M.D./Ph.D.**
 BS in Biology – Bowling Green State University
 “Assessing metabolic differences following mild traumatic brain injury and their predictive value for patients' outcomes”
 Advisors: Zhifeng Kou, Ph.D. – Radiology & Biomedical Engineering; Alana Conti, Ph.D. – Psychiatry and Behavioral Neurosciences
- 2020 - July** **Chaitali Anand, Ph.D.**
 BS in Microbiology - University of Pune, Maharashtra, India
 “Age differences in hippocampal glutamate modulation during associative learning and memory: A proton functional magnetic resonance spectroscopy (¹H fMRS) study”
 Advisors: Naftali Raz, Ph.D. – Psychology; Jeffrey Stanley, Ph.D. – Psychiatry and Behavioral Neurosciences
- 2020 - October** **Wafaa Sweidan, Ph.D.**
 BS in Biology – Lebanese American University, Lebanon
 “Investigating Gray and White Matter Microstructure in Parkinson Disease Patients using Diffusion Magnetic Resonance Imaging”
 Advisors: Edwin George, M.D., Ph.D. – Neurology; Jeffrey Stanley, Ph.D. – Psychiatry and Behavioral Neurosciences
- 2021 - February** **Brian Silverstein, Ph.D.**
 BA in Philosophy - University of Toronto, Canada
 “Dynamic Tractography”
 Advisor: Eishi Asano, Ph.D. – Pediatrics

- 2022 - February** **James Matchynski, M.D./Ph.D.**
 BS in Biochemistry - University Michigan
 “Development and Implementation of a Novel Method to Quantify FOS-Related Neuronal Activity *in vivo* Using High-Resolution Photoacoustic Imaging”
 Advisors: Alana Conti, Ph.D. – Psychiatry and Behavioral Neurosciences; Shane Perrine, Ph.D. – Psychiatry and Behavioral Neurosciences
- 2022 - February** **Nolan O’Hara, M.D./Ph.D.**
 BS in Neuroscience - University of Michigan
 “Propagation of Subdural Signals in Neurosurgical Patients with Epileptic Spasms”
 Advisor: Justin Jeong, Ph.D. – Pediatrics
- 2022 - March** **Lana Ruvolo Grasser, Ph.D.**
 BS in Neuroscience – University of Michigan
 “Dancing the Storm: Neurobiological Correlates of Trauma-Related Psychopathology in Youth Resettled as Refugees, and the Efficacy of Creative Arts and Movement Therapies to Address Trauma-Related Psychopathology”
 Advisors: Tanja Jovanovic, Ph.D. – Psychiatry and Behavioral Neurosciences; Arash Javanbakht, M.D. – Psychiatry and Behavioral Neurosciences
- 2022 - March** **Erin Edwards, Ph.D.**
 BS in Neuroscience, University of New England
 “Backward Walking: A Clinical Marker of Fall Risk for Individuals with Multiple Sclerosis”
 Advisor: Nora Fritz, Ph.D., P.T., D.P.T., N.C.S. – Pharmacy & Health Science
- 2022 - October** **Nicole Zabik, Ph.D.**
 BS in Biochemistry, Oakland University
 “Neural and Behavioral Mechanisms of PTSD: Impact of Endocannabinoid Modulation on Extinction Recall and Avoidance Behaviors”
 Advisors: Christine Rabinak, Ph.D. - Pharmacy & Health Science; Mark Greenwald, Ph.D. – Psychiatry and Behavioral Neurosciences
- 2023 - February** **Tabitha Moses, M.D./Ph.D.**
 BA in Cognitive Science and Philosophy, John Hopkins University
 “Using Neuromodulation to Investigate Potential Treatment Pathways Associated with Stress & Substance Use in Opioid Use Disorder”
 Advisor: Mark Greenwald, Ph.D. – Psychiatry and Behavioral Neurosciences

Translational Neuroscience Program: Organization and Committees

Program Director

Jeffrey A. Stanley, Ph.D.
Professor of Psychiatry and Behavioral Neurosciences
jeffrey.stanley@wayne.edu

Graduate Officer

Alana C. Conti, Ph.D.
Professor of Psychiatry and Behavioral Neurosciences
aconti@med.wayne.edu

Steering Committee

Jeffrey A. Stanley, Ph.D., Chair
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jeffrey.stanley@wayne.edu

Alana C. Conti, Ph.D.
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Ana Daugherty, Ph.D.
Psychology and Institute of Gerontology
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Alan Dombkowski, Ph.D.
Pediatrics
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Student Recruitment Committee

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Student Representative: 2023 - 2024

Grant LeVasseur
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WAYNE STATE School of Medicine

Checklist for NRSA Predoctoral (F30/F31) Fellowship Applications

Contact Person:

- [Cordell Crutchfield](#) (Psychiatry and Behavioral Neurosciences) can help with the application process, budget and submitting the application.

Eligibility:

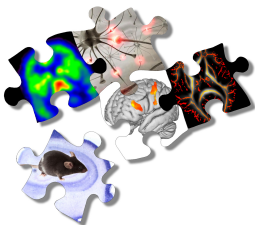
- US Citizens, Nationals, and Permanent Residents enrolled in a PhD or MD/PhD program.
- Diversity applicants can be from underrepresented racial or ethnic groups; have an ADA recognized disability; or come from a socially, culturally, or educationally disadvantaged background (certification required).

Deadlines:

- All F30 (MD/PhD) and F31 (PhD) applications either new, renewal or resubmission must be electronically submitted.
- Submission deadlines are April 8th, August 8th and December 8th.

Before you complete your application:

- Read the Funding Opportunity Announcements (FOA), which can be found at http://grants.nih.gov/training/F_files_nrsa.htm
- Refer to the SF424 Guidelines, which can be found at <http://grants.nih.gov/grants/funding/424/index.htm>
- Proposals MUST be submitted via Grants.Gov on or before 5:00pm Local Time on Deadline Date. If an NIH “standard deadline” date falls on a weekend or Federal holiday, the deadline is extended to the following business day.
- The individual Fellowship applicant for whom support is being requested is designated as the PD/PI on the application and must be registered in eRA Commons as PI. The mentor, also needs a valid eRA Commons ID listed, their role is Mentor.
- Contact [Cordell Crutchfield](#) to obtain an eRA Commons user name.
- Candidate should be the named PI. At award stage an account is established with the Mentor as the PI and the candidate referenced in the title (note, the fellow does not need PI status).



Translational Neuroscience Program WAYNE STATE UNIVERSITY SCHOOL OF MEDICINE

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Sections of the Application:

RR SF424 – self-explanatory, but please note:

- Box 1. Ensure correct box is checked: “Application” or “change/corrected”
- Box 4a. Box is completed with the NIH grant number
if a Resubmission i.e., CA123456
- Box 6. TIN/EIN = 1386028429A1
- Box 8. Type of application: ensure correct box is check (either NEW or RESUBMISSION)
- Box 10. Ensure solicitation information is completed.
- Box 11. Title: suggest no special characters are used.
Limit 200 characters including spaces between words and punctuation.
- Box 12. Ensure start dates are correct.
- Box 13. WSU Congressional District = MI-013
- Box 16. The program is NOT covered by E.O. 12372
- Box 17. Should be AGREE
- Box 21. Cover letter is attached here.

Cover letter – Required for fellowship applications.

The cover letter must contain the list of referees (including name, department affiliation, and institution).

Note: The Cover Letter no longer conveys any information regarding assignment of the application, this must be done by the new PHS ASSIGNMENT REQUEST FORM, an optional form.

R&R Other Project Information

1. Human Subjects - Assurance No. 00002460
 - a. If YES and EXEMPT: the exemption number must be included.
 - b. If YES and IRB review is necessary: ensure all necessary attachments are included on the PHS398 Research Plan page or the package will error (see below).

2. Animal Assurance No. A3310-01.

Note: if applicant answers “NO” to “PENDING” for animal or human approval then an approval date must be entered. If not, the package will error.

If animal involvement is anticipated within the period of award but plans are indefinite, check "Yes" and add the Vertebrate Animals attachment to provide an explanation and to indicate when it is anticipated that animals will be used. If an award is made prior to the involvement of animals, the grantee must provide all of the information required by adding a Vertebrate Animals attachment in the Research Plan and verifying an IACUC approval to the awarding component.

3. Proprietary information – see SF424 Guide for instructions. Text must be marked.
4. Environmental Questions – expected to be NO
5. Historic Place – expected to be NO
6. International Collaboration –
7. Project **Summary /Abstract** – 30 lines max; summary of the proposed activity

8. **Narrative** - short 2-3 sentences for lay audience explaining “relevance to Public health”
9. **Bibliography and References** cited – list all authors – “et al.” not allowed; Include PMID numbers if available.
10. **Facilities/Resources** – Identify the facilities available to the program to demonstrate capability of research site to complete the proposal, include all performance sites.

Provide in the Attachment a detailed description of the institutional facilities and resources available to the Fellowship applicant. The information provided is of major importance in establishing the feasibility of the goals of the fellowship training plan.

11. **Equipment** – list equipment available to the program to demonstrate capability of research site.
12. Other Attachments - If required by PA/RFP solicitation (but are discouraged)

Certification Letter for Pre-doctoral Fellowships (F31) to Promote Diversity

- a. Applications submitted for Individual Pre-doctoral Fellowships (F31) to Promote Diversity in Health-Related Research are required to attach a Certification Letter (titled Diversity_Eligibility_Ltr) from the institution certifying eligibility of the Fellowship applicant for the program. The letter should avoid revealing sensitive personal information, such as the candidate’s specific racial/ethnic background or type of disability. The Certification Letter must be on institutional letterhead and scanned so that an institutional official signature is visible.

Performance Site Information(s)

- List WSU plus any other sites where science will be performed.

R&R Key Persons

- The Fellow is listed with the PD/PI role and MUST provide eRA Commons User ID in the “Credential” box.
- Ensure the * sections are completed (address, including 9 digit zip code, e-mail, phone number).
- List Mentor(s), OSCs and Consultants.
Note: Project role is ‘Other’, then ‘Sponsor’ for the faculty mentor, they also MUST have an eRA commons ID.
- Biosketches required for ALL persons listed in this Senior/Key Person Profile page.

See the website for further guidance as needed

<http://grants.nih.gov/grants/how-to-apply-application-guide.htm>

<http://grants.nih.gov/grants/forms/biosketch.htm>

Unless the PA/RFA requires, do not provide “Current & Pending Support” at proposal time

*checklist does not replace the solicitation. Please review program specific solicitation for compliance and completeness.

DUE DATE AND AWARD INFORMATION	
Internal deadline	4 business days prior to sponsor deadline
Budget period	Up to 5 years
Award notification	At least 6 months after sponsor deadline

FORMATTING INSTRUCTIONS	
Document format	PDF only; no headers or footers Headings (e.g. Significance, Innovation) are highly encouraged
Font type/size	<ul style="list-style-type: none"> ✔ Arial, Georgia, Helvetica, Palatino Linotype typeface preferred ✔ 11 or larger ✔ Black font color
Line spacing	<ul style="list-style-type: none"> ✔ No more than 6 lines of type within a vertical space of 1 inch ✔ Only single column formatting
Page size	8.5 x 11
Margins	0.5" all sides
Guidelines	http://grants.nih.gov/training/nrsa.htm ASSIST User Guide: https://era.nih.gov/files/ASSIST_user_guide.pdf
Instructions	https://grants.nih.gov/grants/how-to-apply-application-guide/forms-e/fellowship-forms-e.pdf
Solicitation	PA-18-671 – Parent F31 PA-18-666 – Parent F31 Diversity

To eliminate errors and compatibility issues, all proposals will now be submitted via **ASSIST**.

PROPOSAL DOCUMENTS	
1	Proposal cover page – SF424
2	PHS Assignment Request Form
	<ul style="list-style-type: none"> ✔ Optional form that allows selection of assignment <ul style="list-style-type: none"> ○ Assign and Not Assign to Awarding Component ○ Assign and Not Assign to Study Section ○ List individuals who should not review application and why ○ Identify expertise needed to review your application
3	Cover Letter
	<ul style="list-style-type: none"> ✔ Fellowship applicants are required to include a cover letter with the application. The cover letter will not be shared with peer reviewers. The cover letter includes information regarding the Program Officer, which you have contacted, potential study section for review and which branch of NIH the proposal is most suitable.

4	<p>Proposal Summary/Abstract - No longer than 30 lines of text</p>
	<ul style="list-style-type: none"> ✔ State the application’s broad, long-term objectives and specific aims, making reference to the health relatedness of the project
5	<p>Project Narrative - No more than three sentences</p>
	<ul style="list-style-type: none"> ✔ Describe the relevance of this research to public health
6	<p>Bibliography & References Cited - No page limit</p>
	<ul style="list-style-type: none"> ✔ Each reference must include the names of all authors (in the same sequence in which they appear in the publication), the article and journal title, book title, volume number, page numbers, and year of publication. ✔ When citing articles that fall under the <i>Public Access Policy</i>, were authored or co-authored by the applicant and arose from NIH support, provide the NIH Manuscript Submission reference number (e.g., NIHMS97531) or the PubMed Central (PMC) reference number (e.g., PMCID234567) for each article. If the PMCID is not yet available because the Journal submits articles directly to PMC on behalf of their authors, indicate “PMC Journal – In Process.”
7	<p>Facilities & Other Resources - No page limit</p>
	<ul style="list-style-type: none"> ✔ Identify the facilities to be used (Laboratory, Animal, Computer, Office, Clinical and Other).
8	<p>Equipment - No page limit</p>
	<ul style="list-style-type: none"> ✔ List major items of equipment already available for this project and, if appropriate identify location and pertinent capabilities.
9	<p>Certification Letter for Predoctoral Fellowship to Promote Diversity, if applicable</p>
	<ul style="list-style-type: none"> ✔ Required letter from institution certifying eligibility of applicant to apply for individual Predoctoral Fellowships to Promote Diversity in Health-Related Research
10	<p>Biographical Sketch - Limited to 5 pages</p>
	<ul style="list-style-type: none"> ✔ Use NIH biosketch format – https://grants.nih.gov/grants/forms/biosketch.htm ✔ <i>FAQ on biosketches</i> ✔ Include Commons User Name ✔ Sponsor biosketch is required. Sponsor must use Project Role of Other and write ‘Sponsor’ in comment field ✔ All individuals who have committed to contribute to the scientific development and execution of the project, including sponsor and co-sponsors, should be identified as senior/key personnel, even if they are not committing any specified measurable effort to the proposed project, and must provide a Commons username.
11	<p>Introduction (for resubmission only) - Limited to 1 page</p>
	<ul style="list-style-type: none"> ✔ Summarize substantial additions, deletions and changes to application ✔ Respond to issues and criticism raised in the summary statement
12	<p>Applicants Background and Goals for Fellowship Training - Limited to 6 pages</p>
	<ul style="list-style-type: none"> ✔ Doctoral Dissertation and Research Experience. (Do not list academic courses) ✔ Training Goals and Objectives ✔ Activities Planned Under this Award
13	<p>Specific Aims - Limited to 1 page</p>
	<ul style="list-style-type: none"> ✔ State the goals of the proposed research and summarize the expected outcome, including the impact the results of the proposed research will exert on the research field involved.

14	Research Strategy - Limited to 6 pages total
	<ul style="list-style-type: none"> ✔ Significance <ul style="list-style-type: none"> ○ Explain the importance of the problem or critical barrier to progress in the field that the proposed project addresses. ○ Explain how the proposed project will improve scientific knowledge, technical capability, and/or clinical practice in one or more broad fields. ○ Describe how the concepts, methods, technologies, treatments, services, or preventative interventions that drive this field will be changed. ✔ Approach <ul style="list-style-type: none"> ○ Describe the overall strategy, methodology, and analyses to be used to accomplish the specific aims of the project. Unless addressed separately in the Resource Sharing Plan, include how the data will be collected, analyzed, and interpreted as well as any resource sharing plans as appropriate. ○ Discuss potential problems, alternative strategies, and benchmarks for success anticipated to achieve the aims. ○ If the project is in the early stages of development, describe any strategy to establish feasibility, and address the management of any high risk aspects of the proposed work. ○ Point out any procedures, situations, or materials that may be hazardous to personnel and precautions to be exercised.
15	Respective Contributions – limited to 1 page
	<ul style="list-style-type: none"> ✔ Describe the collaborative process between you and your sponsor/co-sponsor in the development, review, and editing of this research training plan. Discuss the respective roles in accomplishing the proposed research.
16	Selection of Sponsor and Institution – limited to 1 page
	<ul style="list-style-type: none"> ✔ Explain why the sponsor, co-sponsor (if any) and institution were selected to accomplish the research training goals. If the proposed research training is to take place at a site other than the sponsoring organization, provide an explanation here.
17	Training in Responsible Conduct of Research – limited to 1 page
	<ul style="list-style-type: none"> ✔ Format ✔ Subject Matter ✔ Faculty Participation ✔ Duration of Instruction ✔ Frequency of Instruction
18	Sponsor(s) and Co-Sponsor(s) Statements – limited to 6 pages
	<ul style="list-style-type: none"> ✔ Research Support Available ✔ Sponsor/co-sponsor’s Previous Fellows/Trainees ✔ Training Plan, Environment and Research Facilities ✔ Number of Fellows/Trainees to be Supervised During the Fellowship ✔ Applicants Qualifications and Potential for a Research Career
19	Letters of Support from Collaborators, Contributors and Consultants (if applicable) – max 6 pages
20	Description of Institutional Environment and Commitment to Training - max 2 pages This page limit includes the required Additional Educational Information
21	Resource Sharing Plan – Required for proposals with \$500K in direct costs per year

	<ul style="list-style-type: none"> ✔ Individuals are required to comply with the instructions for the Resource Sharing Plans (Data Sharing Plan, Sharing Model Organisms, and Genome Wide Association Studies (GWAS)) as provided in the SF424 Guide found <i>here</i>.
22	Authentication of Key Biological and/or Chemical Resources – Do not use
23	Vertebrate Animals (if applicable) – Refer to the <i>SF424 Guide</i>
	<ul style="list-style-type: none"> ✔ Although no specific page limitation applies to this section of the application, be succinct. For additional information, see http://grants.nih.gov/grants/olaw/VASchecklist.pdf. ✔ If the involvement of animals is indefinite, provide an explanation and indicate when it is anticipated that animals will be used. ✔ If all or part of the proposed research involving vertebrate animals will take place at alternate sites (such as project/performance or collaborating site(s)), identify those sites and describe the activities at those locations. ✔ Failure to address the following criteria will result in the application being designated as incomplete and it will not be considered. <ul style="list-style-type: none"> ○ Description of procedures including identify the species, strains, ages, sex, and total numbers of animals by species, to be used in the proposed work. If dogs or cats are proposed provide the source of the animals. ○ Justifications: Provide justification that the species are appropriate for the proposed research. Explain why the research goals cannot be accomplished using an alternative model (e.g. computational, human, invertebrate, in vitro). ○ Minimization of Pain and Distress: Describe the interventions including analgesia, anesthesia, sedation, palliative care and humane endpoints to minimize discomfort, distress, pain, and injury.
24	Additional Information
	<ul style="list-style-type: none"> ✔ Does the proposed project involve embryonic stem cells? – Yes or No ✔ Degree sought ✔ Field of Training for current proposal? ✔ Current or Prior NRSA Support? Yes or No; if yes, enter information ✔ Application for concurrent support? Yes or No; if yes, limited to 1 page ✔ Citizenship – check the correct box
25	Appendix
	<ul style="list-style-type: none"> ✔ The only allowable appendix material are: <ul style="list-style-type: none"> ○ Clinical trial protocols ○ Investigator’s brochure from an IND application ○ Blank informed consent/assent forms ○ Blank surveys, questionnaires, data collection instruments ○ FOA specific items ✔ Inclusion of any other type of appendices may result in proposal being rejected
26	Budgets

	<ul style="list-style-type: none"> ✔ Award budgets are composed of stipends, tuition and fees, and institutional allowance. ✔ Stipends <ul style="list-style-type: none"> ○ Kirschstein-NRSA awards provide stipends as a subsistence allowance to help defray living expenses during the research and clinical training experiences. The most recent stipend levels are described on the <i>Kirschstein-NRSA webpage</i> ✔ Tuition and Fees <ul style="list-style-type: none"> ○ NIH will contribute to the combined cost of tuition and fees at the rate in place at the time of award. The most recent tuition and fees levels are described on the <i>Kirschstein-NRSA webpage</i> ✔ Institutional Allowance <ul style="list-style-type: none"> ○ The application should include in the Award Budget the applicable Kirschstein-NRSA institutional allowance to help defray the cost of fellowship expenses such as health insurance, research supplies, equipment, books, and travel to scientific meetings
27	Human Subjects and Clinical Trials – Refer to SF424 Guide G.500
	<ul style="list-style-type: none"> ✔ If exempt, provide Federal regulation exemption number ✔ If NO to Human Subjects, but YES to Human Specimens and/or Data used, provide explanation and skip the rest of the Human Subjects and Clinical Trials Form ✔ If YES to Human Subjects, you will need to complete a Study Record for each proposed Human Subject Study
28	Study Record: Section 1 Basic Information – Refer to SF424 Guide G.500 Required if you have human subjects, regardless if it qualifies as a clinical trial
	<ul style="list-style-type: none"> ✔ 1.1 Study Title – must be unique for each study ✔ 1.2 Is this study exempt from Federal Regulations? ✔ 1.3 If so, enter exemption number ✔ 1.4 Clinical Trial Questionnaire (if all 4 questions are YES, your research IS a clinical trial. If any of the 4 questions are NO, you are NOT submitting a clinical trial. Double check the RFA to ensure you are submitting to an RFA that corresponds to these answers.) ✔ 1.5 ClinicalTrials.gov Identifier – Do not complete
29	Study Record: Section 2 Study Population Characteristics – Refer to SF424 Guide G.500 Required if you have human subjects, regardless if it qualifies as a clinical trial. If only Exemption 4 is selected, do not complete Section 2.
	<ul style="list-style-type: none"> ✔ 2.1 Conditions or Focus of Study – at least 1 required entry. Max of 20 ✔ 2.2 Eligibility Criteria – List study’s inclusion and exclusion criteria in text box ✔ 2.3 Age Limits – Minimum and Maximum drop down menu ✔ 2.4 Inclusion or Women, Minorities and Children upload – Must contain two separate headers: Inclusion of Women and Minorities and Inclusion of Children ✔ 2.5 Recruitment and Retention Plan upload ✔ 2.6 Recruitment Status – drop down menu ✔ 2.7 Study Timeline upload – use general dates, no specifics ✔ 2.8 Enrollment of First Subject – enter date from menu
30	Inclusion Enrollment Report – Refer to SF424 Guide G.500 Required for all human subject studies unless Exemption 4 is selected

	<ul style="list-style-type: none"> ✔1. Using an existing dataset or resource? ✔2. Enrollment Location Type (Domestic/Foreign) ✔3. Enrollment Country (optional) ✔4. Enrollment Location (optional) ✔5. Comments (optional) ✔6. Planned table – required if your study will NOT use an existing dataset ✔7. Cumulative (Actual) table – only complete if study will use an existing dataset
31	<p>Study Record: Section 3 Protection and Monitoring Plans – Refer to <i>SF424 Guide G.500</i> Required if you have human subjects, regardless if it qualifies as a clinical trial</p>
	<ul style="list-style-type: none"> ✔3.1 Protection of Human Subjects upload ✔3.2 Is this a multi-site study that will use the same protocol to conduct non-exempt human subjects research at more than one domestic site? If yes, upload Single IRB plan ✔3.3 Data and Safety Monitoring Plan upload – only required if clinical trial ✔3.4 Will a Data and Safety Monitoring Board be appointed for this study? – only required if clinical trial ✔3.5 Overall Structure of the Study Team upload – only required if clinical trial
32	<p>Study Record: Section 4 Protocol Synopsis – Refer to <i>SF424 Guide G.500</i> Do not complete unless specified in the RFA</p>
33	<p>Study Record: Section 5 Other clinical Trial-related Attachments – Refer to <i>SF424 Guide G.500</i> Do not complete unless specified in the RFA</p>

TNP Program Forms



WAYNE STATE School of Medicine

Petition and Authorization for Directed Study - PYC 7990

Student's Name: _____ PID#: _____

Semester and Year: _____ Start Date: _____ End Date: _____

Number of credit hours being requested: _____

(one credit hour should be greater than an anticipated 30 to 40 clock hours of effective and intensive work).

Total prior number of earned credit hours: _____ *(maximum number of credit hours for PYC 7990 is 10).*

Instructor: _____ Instructor's Department: _____

DESCRIPTION OF DIRECTED STUDY:

1) Course outline with objectives. Attach additional page if necessary.

Note: The study must be related to student's major field, and be a significant body of knowledge and/or work relative to the student's degree program, purpose and objectives. The study cannot duplicate work in any course previously taken or to be available while the student is earning a degree.

2) Significance of the course to the student's academic program.

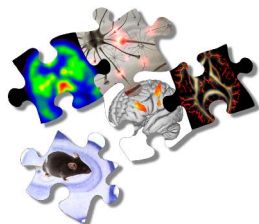
3) How will the course be evaluated (e.g., oral or written report, examination, essay, etc.)

APPROVAL:

Instructor: _____ Date: _____

TNP Graduate Officer: _____ Date: _____

<p>To be complete by Instructor at end of semester. Were all objectives achieved? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If No, comment:</p> <p>Student's Final Grade: _____</p>



Translational Neuroscience Program WAYNE STATE UNIVERSITY SCHOOL OF MEDICINE

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INSTRUCTIONS TO STUDENT AND ADVISOR

This report serves two purposes. First, it serves in lieu of a departmental course and is required under the principle that the University must keep a record of the work of each student in each course in graduate programs. Second, it affords a means whereby each student will receive appropriate permission for and assistance in planning a directed study.

Directed study is generally authorized only for the advanced student who has an important area of knowledge and/or work that should be included in a graduate program, but cannot be provided through available courses. The advisor should authorize a directed study only if the individual time and assistance necessary to carry it to completion can be given to the student.

POLICIES AND CRITERIA IN DIRECTED STUDY

Directed study is an excellent procedure in graduate work provided it fulfills the following criteria:

1. The study must be related to student's major field, and be a significant body of knowledge and/or work relevant to the student's degree program, purpose, and objectives.
2. The study must be at an advanced academic or professional level. It cannot duplicate work in any course previously taken or to be available while the student is earning a degree.

PROCEDURE

1. Registration in directed study must have advance approval of the student's advisor and the Graduate Officer in the department. The directed study must be under the advisor's supervision unless arrangements are made in advance that some other graduate faculty member will direct the study.
2. The student must confer with his or her advisor before registration. The proposed directed study must be carefully planned, the availability of necessary materials should be verified, and the procedure for certifying credits (i.e., special examination report) should be agreed upon. Directed study petitions that do not provide detailed course descriptions should not be approved.
3. Hours of credit should be estimated conservatively before the student registers. The appropriate amount of credit cannot always be determined in advance, but in no case should an hour of credit be certified for less than an anticipated 30 to 40 clock hours of effective and intensive work.

If the student registered for either fewer or more hours of credit than are warranted, after the study is completed, a Change of Elections should be submitted to either add or drop the appropriate number of hours. If the student has registered for more hours than the completed study warrants, no refund will be allowed for the excess hours.

Translational Neuroscience Program, WAYNE STATE UNIVERSITY

SCOTT HALL, ROOM 2309, 540 EAST CANFIELD, DETROIT, MI 48201
jstanley@med.wayne.edu ■ (313) 577-5949 ■ Fax: (313) 577-5900 ■ <http://tnp.wayne.edu>



WAYNE STATE School of Medicine

Ph.D. Dissertation Committee Approval

This form must be completed and approved by the TNP Graduate Director prior to the end of Year two for Ph.D. students and prior to the end of Year one M.D./Ph.D. students.

STUDENT NAME: _____

PID: _____

PROPOSED DISSERTATION COMMITTEE:

TNP Steering
Committee
Member?

Advisor

WSU ID

Department

[]

co-Advisor (if applicable)

WSU ID

Department

[]

Committee Member

WSU ID

Department

[]

Committee Member

WSU ID

Department

[]

Outside Committee Member

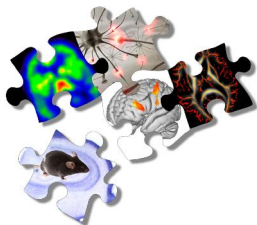
WSU ID

Department

[]

SIGNATURE OF TNP PROGRAM DIRECTOR: _____

DATE: _____



Translational Neuroscience Program WAYNE STATE UNIVERSITY SCHOOL OF MEDICINE

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WAYNE STATE School of Medicine

Translational Neuroscience Program WRITTEN QUALIFYING EXAMINATION REPORT

STUDENT INFORMATION

Name e-mail address

PID Telephone

Adress

Committee Report on Doctor of Philosophy Written Examination

Date: _____ Pass Fail

(Advisor)

Name Access ID Signature Date

Name Access ID Signature Date

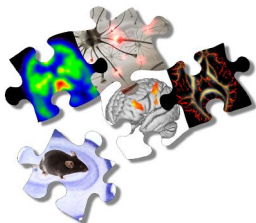
Name Access ID Signature Date

Name Access ID Signature Date

Name Access ID Signature Date

Student Signature Date

Program Graduate Director Signature Date



Translational Neuroscience Program WAYNE STATE UNIVERSITY SCHOOL OF MEDICINE

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WAYNE STATE

School of Medicine

Ph.D. Dissertation Uni-Check Certification

This form must be submitted to the TNP Program Director at least three weeks prior to the Defense. Also, the first page of the plagiarism check reports must be included with this form.

To be completed by Student:

NAME:

PID:

ADDRESS:

TELEPHONE:

E-MAIL:

ADVISER:

DISSERTATION TITLE:

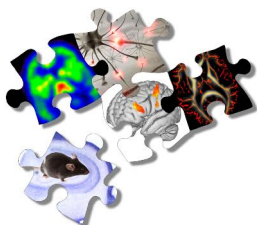
To be completed by the Dissertation Advisor:

UNI-CHECK SCORE:

COMMENTS: If plagiarism is detected, the student must take appropriate action; otherwise, the advisor must provide appropriate justification in the space provided.

SIGNATURE OF DISSERTATION ADVISOR: _____

SIGNATURE OF TNP PROGRAM DIRECTOR: _____



Translational Neuroscience Program

WAYNE STATE UNIVERSITY SCHOOL OF MEDICINE

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