

FALL 2017 PhD COURSE SCHEDULE

Graduate School of Biomedical Sciences

Consult (<http://njms.rutgers.edu/gsbs/index.cfm>) or Respective Instructors for up to date information.

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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Days Offered	Start Date	End Date	Time	Location
BIOC 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				
BIOC 5290Q	Critical Readings of the Literature	Dr. Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Approval and confirmation by Course Director. Open to PhD students only.	3	N	Wednesday	09/06/17	12/18/17	1:00 PM - 2:20 PM	MSB Room C686 (Confirmed)
BMEG 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				
BMEG 593AQ, BQ, CQ*	Biomedical Engineering Research	Faculty		2	N	By Arrangement				
BMEG 5930Q*	Biomedical Engineering Research	Faculty		1 to 10	S/U	By Arrangement				
CBMM 5000Q	CBMM Thesis Research	Faculty	Open to PhD students only.	5 PT 10 FT	S/U	By Arrangement				
CBMM 5002Q	Practical Approaches for Studying Protein Function	Dr. Maha Abdellatif abdellma@njms.rutgers.edu 973-972-1254 Dr. Danish Sayed sayeddh@njms.rutgers.edu 973-972-5243	GSND N500A (Fundamentals of Biomedical Sciences) or GSND 5200Q (Introduction to Biomedical Sciences)	2	N	Wednesday	09/06/17	11/29/17	2:00 PM - 3:50 PM	MSB Room G609B (provided by course director)
<u>CBMM 5350Q</u>	<u>Molecular Medicine of the Heart</u>	Dr. Gopal Babu babugo@njms.rutgers.edu 973-972-5376	Permission of Course Director. Open to Masters and PhD students. (See below for required text).	3	N	Tuesday	09/05/17	12/12/17	9:30 AM - 12:20 PM	MSB Room B619 (Confirmed)
CBNP 5000Q	CBNP Thesis Research	Faculty	Open to PhD students only.	5 PT 10 FT	S/U	By Arrangement				
<u>CBNP 5030Q</u>	<u>Clinical Neuroimmunology</u>	Amjad Ilyas ilyasaa@njms.rutgers.edu 973-972-3580	Open to Masters & PhD students. Fundamentals of Neuroscience (NEUR 5200Q) and Immunology A (PATH 511A) or permission of course director.	2	N	Monday & Wednesday	10/24	12/20	5:30 PM - 7:20 PM	MSB Room B605 Requested

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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Days Offered	Start Date	End Date	Time	Location
CBNP 5032Q	<u>Behavioral and Cognitive Neuroscience</u>	Dr. Kevin Beck beckkd@njms.rutgers.edu 973-676-1000 x3682 Dr. Kevin Pang Kevin.Pang@va.gov 973 676 1000 x1277	Previous course in Neuroscience.	2	N	Tuesday & Wednesday	08/29/17	10/18/17	5:00 PM - 6:50 PM	Cancer Center Room G1196 (Confirmed)
CBNP 5150Q	<u>Cell/Developmental Neuroscience</u>	Dr. Terri Wood woodte@njms.rutgers.edu 973-972-6529	Open to Masters and PhD Students. Prerequisite Fundamentals of Neurosciences	2	N	Tuesday Wednesday Friday	10/24/17	12/22/17	3:00 PM - 4:20 PM 1:00 PM - 2:20 PM 1:00 PM - 2:20 PM	Cancer Center Room F1196 (Provided by course director)
CBNP 5155Q	<u>Critical Readings in CBNP</u>	Dr. Martha Nowycky nowyckmc@njms.rutgers.edu 973-972-4391	Open to PhD students only.	1	N	Tuesday	08/29/17	12/12/17	1:00 PM - 2:50 PM	MSB Room G609B (provided by course director)
CBNP 5165Q	<u>Foundations of Integrative Human Physiology</u>	Dr. Jorge Serrador jorge.serrador@rutgers.edu 973-676-1000 x28057 Dr. Michael Falvo michael.falvo@va.gov 973-676-1000 x12423	Open to Masters and PhD students. Physiology course or permission of course director.	2	N	Tuesday Thursday	10/24/17	12/22/17	3:00 PM - 4:50 PM 3:00 PM - 4:50 PM	Cancer Center Room G1196 (Confirmed)
CBNP 593AQ, BQ, CQ*	Lab Rotations in CBNP	Dr. Joshua Berlin berlinjr@njms.rutgers.edu 973-972-1618 Dr. Joseph McArdle mcardle@njms.rutgers.edu 973-972-4428	Use for first 3 rotations.	2	N	By Arrangement				
CBNP 5930Q*	Lab Rotations in CBNP	Dr. Joshua Berlin berlinjr@njms.rutgers.edu 973-972-1618 Dr. Joseph McArdle mcardle@njms.rutgers.edu 973-972-4429	Use this course # for all subsequent rotations.	1 to 10	S/U	By Arrangement				
DENT 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				

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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Days Offered	Start Date	End Date	Time	Location
DENT 5145Q	<u>Introduction to Structural Biology</u>	Dr. N. Ramasubbu ramasun1@sdm.rutgers.edu 973-972-0704	Open to Masters and PhD students.	1	N	Wednesday	08/30/17	12/20/17	10:00 AM - 10:50 AM	Dental School Room B721 (provided by course director)
DENT 5220Q	Methods in Microscopic Imaging	Dr. Kabilan Velliyagounder velliyka@sdm.rutgers.edu 973-972-5051	Enrollment Limit 12. Open to Masters and PhD students.	2	N	Wednesday	09/06/17	12/20/17	1:00 PM - 2:50 PM	Dental School Room C987 (provided by course director)
GSND 0596Q	<u>Professional Skills I</u>	Dr. Steve Levison levisosw@njms.rutgers.edu 973-972-5162	Enrollment Limit 42. Online registration allowed for G2 students, all others require instructor permission.	1	S/U	Monday & Wednesday	08/30/17	10/20/17	4:00 PM - 5:20 PM	Cancer Center Room G1196 (provided by course Director)
GSND 5113Q	<u>Gene Expression</u>	Dr. Emanuel Goldman egoldman@njms.rutgers.edu 973-972-4367	Open to Masters and PhD students.	3	N	Tuesday	08/29/17	12/12/17	5:00 PM - 7:40 PM	ICPH Auditorium (Provided by course director)
GSND 5135Q	<u>Research Design & Statistics</u>	Dr. Catherine Myers catherine.myers2@va.gov cemyers@njms.rutgers.edu 973-676-1000 x1810	Open to PhD students only. Preference given to CBNP & BME students. Others by permission of instructor only. Enrollment limit 20. (See below for required text and software.)	2	N	Monday & Wednesday	10/23/17	12/18/17	3:00 PM - 4:50 PM	MSB Room B556 (Confirmed)
GSND 5200Q	<u>Introduction to Biomedical Sciences (CORE)</u>	Dr. Michael Mathews mathews@rutgers.edu 973-972-3133	Mandatory for PhD students usually 1st years, Masters students with permission	5	N	Monday, Wednesday & Friday	08/30/17	12/20/17	9:30 AM - 11:20 AM	ICPH Lecture Hall (Confirmed)
GSND 5325Q	<u>Introduction to Bio-Medical Ethics</u>	Dr. Michael E. Shapiro Mes362@njms.rutgers.edu 973-972-6639	Open to Masters & PhD students. Enrollment limit 30.	2	N	Thursday	9/7/17	12/21/17	10:00 AM - 11:50 AM	MSB Room B609 B&C (Confirmed)
GSND 5910Q	MD/PhD Seminar/Journal Club	Dr. Padmini Salgame salgampa@njms.rutgers.edu 973-972-8647	Restricted to students in MD/PhD program.	1	S/U	By Arrangement				
MBGC 5000Q	MBGC Thesis Research	Faculty	Open to PhD students only.	5 PT 10 FT	S/U	By Arrangement				
MBGC 5070Q	<u>Advances in Nucleic Acids: RNA</u>	Dr. Mukund Modak modak@njms.rutgers.edu 973-972-5515	Open to 2nd year PhD students with completion of IBMS. Other admitted with permission of the course director.	2	N	Monday and Wednesday	10/16/17	12/06/17	1:15 PM - 2:50 PM	ICPH Room E220R (Provided by course director)

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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Days Offered	Start Date	End Date	Time	Location
MBGC 5071Q	<u>Advances in Nucleic Acids: DNA</u>	Dr. Mukund Modak modak@njms.rutgers.edu 973-972-5515	Open to 2nd year PhD students with completion of IBMS. Other admitted with permission of the course director.	2	N	Monday and Wednesday	08/28/17	10/11/17	1:15 PM - 2:50 PM	ICPH Room E220R (Provided by course director)
MBGC 5075Q	<u>Cell Death</u>	Dr. Raymond Birge birgera@njms.rutgers.edu 973-972-4497	Open to Masters and PhD students. (See below for required text).	2	N	Monday & Thursday	10/23/17	12/21/17	6:00 PM - 7:50 PM	Cancer Center Room G1196 (Confirmed)
MBGC 5910Q	MBGC Seminar Series	Dr. Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405	Required course for MBGC students. Must register in fall AND spring.	0.5	S/U	Variable	09/04/17	12/22/17	variable	TBA
MBGC 593AQ, BQ, CQ*	Lab Rotations in MBGC	Dr. Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405	Use for first 3 rotations.	2	N	By Arrangement				
MBGC 5930Q*	Lab Rotations in MBGC	Dr. Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405	Use this course # for all subsequent rotations.	1 to 10	S/U	By Arrangement				
MICR 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				
MPHD 5000Q	MD/PhD Thesis Research	Dr. Padmini Salgame salgampa@njms.rutgers.edu 973-972-8647	Restricted to students in MD/PhD program.	5 PT 10 FT	S/U	By Arrangement				
MPHD 5930Q	MD/PhD Laboratory Research	Dr. Padmini Salgame salgampa@njms.rutgers.edu 973-972-8647	Restricted to students in MD/PhD program.	1 - 10	S/U	By Arrangement				
MSBS 5125Q	Teacher Training Internship	Dr. Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Permission of Course Director	1-3	S/U	By Arrangement				
MSBS 5130Q	<u>Stem Cell Biology & Applications in Molecular Medicine</u>	Dr. Pranela Rameshwar rameshwa@njms.rutgers.edu 973-972-4913	Open to Masters and PhD students.	3	N	Monday	08/28/17	12/04/17	6:00 PM - 8:50 PM	MSB Room B610 (Confirmed)
MSBS 520AQ	<u>Advanced Stem Cell Seminar</u>	Dr. Pranela Rameshwar rameshwa@njms.rutgers.edu 973-972-4913	MSBS 5130Q or concurrent registration. Open to Masters and PhD students.	2	N	Wednesday	08/30/17	11/22/17	6:00 PM - 7:50 PM	MSB Room B610 (Confirmed)
NEUR 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				

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<u>NEUR 5200Q</u>	<u>Fundamentals of Neuroscience</u>	Dr. Steve Levison levisow@njms.rutgers.edu 973-972-5162	Open to Masters and PhD students. (See below for required text).	3	N	Thursday	08/31/17	12/21/17	5:00 PM - 7:50 PM	MSB Room C600 (Confirmed)
PATH 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				
PATH 5010Q	General Pathology	Dr. George Studzinski studzins@njms.rutgers.edu 973-972-5869	Knowledge of anatomy and biochemistry to be determined by Course Director or designee. Enrollment limit 30. Open to Masters and PhD students. (See below for required text).	2	N	Monday, Wednesday & Friday	09/06/17	10/16/17	12:00 PM - 2:00 PM	MSB Room C555 (Provided by Course Director)
<u>PATH 5100Q</u>	<u>Cellular Pathology</u>	Dr. Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405	Open to Masters and PhD students. (See below for required text).	2	N	Monday & Thursday	10/23/16	12/18/17	4:00 PM - 5:50 PM	MSB Room B610 (Confirmed)
<u>PATH 5210Q</u>	<u>Molecular and Cellular Immunology</u>	Dr. Joan Durbin durbinje@rutgers.edu	Open to PhD students only. (See below for required text).	3	N	Monday & Wednesday	10/23/17	02/21/18	2:30 PM - 3:50 PM	MSB Room B-610 (Confirmed) until 12/21/17 Please note MSB B619B&C 1/3/18 - 2/21/18
PHMS 5000Q	Biomedical Science Thesis Research	Faculty	Completion of course requirements.	5 to 10	S/U	By Arrangement				
<u>PHPY N5021</u>	<u>Fundamentals of Pharmacology</u>	Dr. Martha Nowycky nowyckmc@njms.rutgers.edu 973-972-4391	Open to Masters and PhD students.	3	N	Monday	09/11/17	12/11/17	6:00 PM - 8:50 PM	MSB Room B552 (Confirmed)
<u>PHPY N5225</u>	<u>Principles of Toxicology</u>	Dr. Ramez Labib ramez.labib@avon.com Dr. Thomas Visalli tvis624@yahoo.com 201-949-4833	Open to Masters and PhD students.	3	N	Thursday	09/07/17	12/07/17	6:00 PM - 8:50 PM	MSB Room B556 (Confirmed)
PHPY 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				

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TIII 5000Q	III Thesis Research	Faculty	Open to PhD students only.	5 PT 10 FT	S/U	By Arrangement				
TIII 5155Q	Critical Readings in I ³ A	Dr. Nikhat Parveen parveeni@njms.rutgers.edu 973-972-5218	PhD only with priority to 1st year I3 students.	0.5	N	Tuesday	08/29/17	10/24/17	9:30 AM - 10:50 AM	ICPH Room E220R (Provided by course director)
TIII 5156Q	Critical Readings in I ³ B	Dr. Amariliz Rivera riveraam@njms.rutgers.edu 973-972-2568	PhD only with priority to 1st year I3 students.	0.5	N	Tuesday	10/24/17	12/12/17	9:30 AM - 10:50 AM	Cancer Center Room F1197 (provided by course Director)
TIII 5158Q	Critical Readings in Inflammation and Neuromodulation	Dr. Luis Ulloa ulloalu@njms.rutgers.edu 973-972-3971	IBMS (GSND 5200Q) and Molecular & Cellular Immunology (PATH 5210Q).	0.5	N	Monday	10/02/17	11/20/17	5:00 PM - 6:50 PM	MSB Room G506B (provided by course Director)
TIII 5170Q	Antigenic Variation and Drug Resistance in Infectious Diseases	Katsunori Sugimoto Nori.sugimoto@rutgers.edu 973-972-4436	Basic knowledge in molecular biology and genetics. Go over the video. http://ocw.mit.edu/courses/biology/7-01sc-fundamentals-of-biology/	0.5	N	Wednesday	8/30/17	10/18/17	9:30 AM - 10:50 AM	MSB Room B605 (Confirmed)
TIII 5620Q	Classic & 21st Century Pathogens	Dr. David M. Lukac lukacdm@njms.rutgers.edu 973-972-4868	Open to PhD students only.	2	N	Monday, Wednesday & Friday	08/28/17	10/20/17	2:00 PM - 3:20 PM	ICPH Auditorium (Provided by course director)
TIII 593AQ, BQ, CQ*	Lab Rotations in I ³	Dr. David M. Lukac lukacdm@njms.rutgers.edu 973-972-4868 Dr. Matthew Neiditch neiditmb@njms.rutgers.edu 973-972-8981	Use for the first 3 rotations.	2	N	By Arrangement				
TIII 5930Q*	Lab Rotations in I ³	Dr. David M. Lukac lukacdm@njms.rutgers.edu 973-972-4868 Dr. Matthew Neiditch neiditmb@njms.rutgers.edu 973-972-8981	Use this course # for all subsequent rotations.	1 to 10	S/U	By Arrangement				

* First three rotations – register for A, B, C respectively – all subsequent rotations register for 1 to 10 cr S/U

COURSES HIGHLIGHTED IN YELLOW ARE NOT AVAILABLE FOR ONLINE REGISTRATION.

During the online registration period, students may obtain email permission from the course director and forward the email to the Registrar at leeba@gsbs.rutgers.edu to be manually registered in any course highlighted in yellow. Add/Drop forms are required after online registration has ended.

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Last Update: 8/23/17 MM										
Required Text										
CBMM 5350Q	Molecular Medicine of the Heart		Class notes will be provided. Suggested additional readings: Physiology of the heart (fifth edition) by Arnold M. Katz and The Heart: Physiology from Cell to Circulation by Lionel H Opie							
CBNP 5030Q	Clinical Neuroimmunology		Antel J, et al. Clinical Neuroimmunology , 2 nd edition, Oxford University Press: ISBN-13: 978-0198510680 & ISBN-10: 0198510683							
GSND 5135Q	Research Design and Statistics		<p>OPTIONAL: Statistics for the Behavioral Sciences (9th ed.) by Frederick J. Gravetter & Larry B. Wallnau.</p> <p>REQUIRED: Access to R statistical software (free download at https://cloud.r-project.org) and G*Power (free download at http://www.psych.uni-duesseldorf.de/abteilungen/aap/gpower3/).</p> <p>Students are encouraged to load software onto a laptop and bring to lectures to follow along with in-class examples.</p> <p>2. SPSS software (available in MSB Academic Computing lab, or for purchase see www.spss.com/statistics for links to student discounts on GradPak Standard – can install on 2 computers, so 2 students can share one license).</p>							
MBGC 5075Q	Cell Death		MEANS TO AN END - Apoptosis and Other Cell Death Mechanisms, Douglas Green, 2010, Cold Spring Harbor Laboratory Press							
NEUR 5200Q	Fundamentals of Neuroscience		5th Edition of Neuroscience, Ed. by Purves et al.							
PATH 5010Q	General Pathology		Suggested Reading: Robbins Basic Pathology, 9th Edition By Vinay Kumar, MBBS, MD, FRCPath, Abul K. Abbas, MBBS and Jon C. Aster, MD, PhD							
PATH 5100Q	Cellular Pathology		Molecular Biology of the Cell – Alberts etal eds							
PATH 5210Q	Molecular and Cellular Immunology		Janeway's Immunobiology 9 th Edition, Garland Scientific							