

FALL 2015 PhD COURSE SCHEDULE

Graduate School of Biomedical Sciences

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

Please note that it is the responsibility of the student to contact the respective instructor for the correct time, dates and room assignment information. Instructor e-mail addresses and phone numbers are provided for your convenience.

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	Monday and Wednesday	09/09/15	12/17/15	1.00 PM - 2.30 PM	MSB F-506
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				
<u>CBMM N5001</u>	<u>Basic Histology</u>	Dr. Grace Pinhal-Enfield pinhalgr@njms.rutgers.edu 732-742-8656	Enrollment limit 30. Open to Masters and PhD students. Masters students need permission of Course Director via email. PhD needs permission of Program/Track Director before seeking permission of Course Director via email. (See below for required text).	3	N	Thursday	08/27/15	12/10/15	5.30 PM - 8.30 PM	Lecture Hall: MSB B-610 Lab: MSB B-516/542
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 973-972-1208	Graduate level Molecular Biology or equivalent.	2	N	Wednesday	09/09/15	12/09/15	2.00 PM - 4.00 PM	MSB G-609B
<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	09/08/15	12/15/15	9:30 AM - 12:30 PM	MSB B-619 <i>*Note: Class in MSB B-610 on 09/08</i>
CBNP 5000Q	CBNP Thesis Research	Faculty	Open to PhD students only.	5 PT 10 FT	S/U	By Arrangement				

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CBNP 5020Q	Principles of Pharmacology	Dr. Lester Sultatos sultatle@njms.rutgers.edu 973-972-6612	Open to PhD students only.	2	N	Wednesday and Friday	09/02/15	10/23/15	1.00 PM - 3.00 PM	MSB H-609B
<u>CBNP</u> <u>5032Q</u>	<u>Behavioral and</u> <u>Cognitive</u> <u>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	10/20/15	12/16/15	5.00 PM - 7.00 PM	MSB I-609
<u>CBNP</u> <u>5150Q</u>	<u>Cellular &</u> <u>Developmental</u> <u>Neuroscience</u>	Dr. Teresa Wood woodte@njms.rutgers.edu 973-972-6529 Dr. Steve Levison levisosw@njms.rutgers.edu 973-972-5162	Open to Masters and PhD students. (See below for required text).	2	N	Tuesday Wednesday Friday	10/23/15	12/18/15	3.00 PM - 5.00 PM 1.00 PM - 3.00 PM 1.00 PM - 3.00 PM	Cancer Center H-1196
<u>CBNP</u> <u>5155Q</u>	<u>Critical Readings in</u> <u>CBNP</u>	Dr. Martha Nowycky nowyckmc@njms.rutgers.edu 973-972-4391	Open to PhD students only.	1	N	Tuesday	09/08/15	12/15/15	1.00 PM - 3.00 PM	MSB H-609B
<u>CBNP</u> <u>5165Q</u>	<u>Foundations of</u> <u>Integrative Human</u> <u>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 Wednesday	10/20/15	12/16/15	3.00 PM - 5.00 PM 1.00 PM - 3.00 PM	Cancer Center G-1196 <i>*Note: Class in CC F-1196 on 10/27, 11/10, 12/08</i>
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				

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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				
<u>DENT 5145Q</u>	<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	08/26/15	12/16/15	10.00 AM - 11.00 AM	Dental School D-986 <i>*Note: Class held in DS D-987 on 08/26/15</i>
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	09/02/15	12/23/15	1.00 PM - 3.00 PM	TBD
<u>GSND 0596Q</u>	<u>Professional Skills I</u>	Dr. Steve Levison levisosw@njms.rutgers.edu 973-972-5162 Dr. Mona Batish batishmo@njms.rutgers.edu u 973-972-6466	Enrollment limit 42. Preference given to 2nd year PhD. All others, permission of Course Directors.	1	S/U	Monday and Wednesday	09/02/15	10/28/15	4.00 PM - 5.30 PM	Cancer Center G-1196 <i>*Note: Class MSB B- 610 on 10/26</i>
<u>GSND 5113Q</u>	<u>Gene Expression</u>	Dr. Emanuel Goldman egoldman@njms.rutgers.edu 973-972-4367	Open to Masters and PhD students.	3	N	Tuesday	09/01/15	12/15/15	5.00 PM - 7.40 PM	ICPH Auditorium
<u>GSND 5135Q Sect. 1</u>	<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 and Wednesday	10/21/15	12/14/15	3:00 PM - 5:00 PM	MSB B-609 B+C
GSND 5135Q Sect. 2	Research Design & Statistics	TBA	Open to PhD students only. Enrollment limit 20. (See below for required text)	2	N	Monday and Wednesday	10/21/15	12/14/15	3:00 PM - 5:00 PM	MSB B-617 B+C

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<u>GSND 5200Q</u>	<u>Introduction to Biomedical Sciences (CORE)</u>	Dr. Frederick Coffman coffmafd@njms.rutgers.edu 973-972-2861		5	N	Monday, Wednesday, and Friday	08/26/15	12/11/15	9.30 AM - 11.30 AM	MSB C-600
GSND 5235Q	<u>Principles of Clinical and Translational Research in Oncology</u>	Dr. Robert Wieder wiederro@njms.rutgers.edu 973-972-3558	Open to Master's and PhD students. Enrollment limit 50. (See below for suggested text).	2	N	Monday	09/07/15	12/07/15	6.00 PM - 8.15 PM	Cancer Center G-1196
<u>GSND 5325Q</u>	<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	09/10/15	12/17/15	10.00 AM - 12.00 PM	MSB B-609 B+C
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				
<u>MBGC 5070Q</u>	<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	10/14/15	12/02/15	1.30 PM - 3.30 PM	ICPH E220R
<u>MBGC 5071Q</u>	<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	08/31/15	10/13/15	1.30 PM - 3.30 PM	ICPH E220R
<u>MBGC 5075Q</u>	<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 and Thursday	10/19/15	12/21/15	6.00 PM - 8.00 PM	MSB B-554 <i>*Note: Lectures in MSB C-600 on 10/26 and 12/14</i>
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	09/01/15	12/18/15	Variable	TBD
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				

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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				
<u>MSBS 5130Q</u>	<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	08/24/15	11/30/15	6.00 PM - 9.00 PM	MSB B-610
<u>MSBS 520AQ</u>	<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	08/26/15	11/18/15	6.00 PM - 8.00 PM	MSB B-552
NEUR 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				
<u>NEUR 5200Q</u>	<u>Fundamentals of Neuroscience</u>	Dr. Steve Levison levisow@njms.rutgers.edu 973-972-5162 Dr. Kevin Pang Kevin.Pang@va.gov 973 676 1000 x1277	Open to Masters and PhD students. (See below for required text).	3	N	Thursday	08/27/15	12/17/15	5.00 PM - 8.00 PM	MSB B-556 <i>*Note: MSB B- 518/544 for 08/27 and 09/03</i>
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, and Friday	09/02/15	10/16/15	12.00 PM - 2.00 PM	MSB C-555

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<u>PATH</u> <u>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 and Thursday	10/19/15	12/17/15	4.00 PM - 6.00 PM	MSB B-554 <i>*Note: Lectures in MSB B-552 on 11/23, 11/30, 12/03, 12/07, and 12/10</i>
<u>PATH</u> <u>5210Q</u>	<u>Molecular and Cellular Immunology</u>	Dr. Patricia Fitzgerald-Bocarsly bocarsly@rutgers.edu 973-972-5233	Open to PhD students only. (See below for required text).	3	N	Monday and Wednesday	10/19/15	02/01/16	4.30 PM - 6.00 PM	MSB C-600
<u>PATH</u> <u>N5209</u>	<u>The Business of Science: Drug Development - From Molecules to Medicines</u>	Dr. Nicholas Ponzio ponzio@njms.rutgers.edu 973-972-5238	Open to Masters and PhD. Introductory level courses in Biology and Chemistry. Enrollment limit of 20. Permission of Course Director via e-mail. CANCELLED.	3	N	Wednesday	09/02/15	12/23/15	5:30 PM - 9:00 PM	MSB C-555
PHMS 5000Q	Biomedical Science Thesis Research	Faculty	Completion of course requirements.	5 to 10	S/U	By Arrangement				
<u>PHPY</u> <u>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	09/14/15	12/14/15	6.00 PM - 9.00 PM	MSB B-552
<u>PHPY</u> <u>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	09/10/15	12/10/15	6.00 PM - 9.00 PM	MSB B-552
PHPY 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement				
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	08/25/15	10/16/15	9.30 AM - 11.00 AM	ICPH E220R
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	10/20/15	12/15/15	9.30 AM - 11.00 AM	MSB F-605 <i>*Note: Class in MSB C-680 on 10/20, 11/17, and 12/15</i>

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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			6:00 PM - 7:00 PM	TBD
TIII <u>5620Q</u>	<u>Classic & 21st Century Pathogens</u>	Dr. David M. Lukac lukacdm@njms.rutgers.edu 973-972-4868	Open to PhD students only.	2	N	Monday, Wednesday, and Friday	08/26/15	10/26/15	2.00 PM - 3.30 PM	ICPH Auditorium
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.

Last Update: 10/21/2015 BS

Required Text

CBMM 5350Q	Molecular Medicine of the Heart	Physiology of the heart (fifth edition) by Arnold M. Katz
CBMM N5001	Basic Histology	Ovalle WK and Nahirney PC. (2013) Netter's Essential Histology, 2nd edition, Saunders, Elsevier. ISBN 978-1455706310 NOTE: 1st or 2nd edition can be used

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DENT 5300Q	Oral Microbiology	Medical Microbiology, 6th edition. Murray, et al. Mosby, Inc. ISBN: 978-0-323-05470-6								
GSND 5135	Experimental Design & Statistics for Biomedical Sciences B	1.Gravetter & Wallnau, Statistics for the Behavioral Sciences, 9th edition (note new edition) 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).								
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: “Wheater’s Functional Histology, 5th edition”. Suggested Reading: “Robbins and Cotran Pathologic Basis of Disease” Eight Edition, Kumar, Abbas, Fausto & Aster Saunders Elsevier, 2010.								
PATH 5100Q	Cellular Pathology	Molecular Biology of the Cell – Alberts etal eds								
PATH 5210Q	Molecular and Cellular Immunology	Janeway’s Immunobiology 8 th Edition, Garland Scientific								