

SPRING 2018 PHD COURSE SCHEDULE

Graduate School of Biomedical Sciences

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Course #	Title	Course Director	Prerequisites	Credits	Grade Mode	Day(s)	Start Date	End Date	Start Time	End Time	Location
6718 5600S	Communicating Science	Nicholas Ponzio ponzio@njms.rutgers.edu 973-972-5238	PhD Students only. Completion of candidacy exam.	3	S/U	Wednesday	1/17	5/2	4:00 PM	6:50 PM	RWJMS Research Tower Room V14 Busch Campus Piscataway
BIOC 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement					
BIOC 5100Q	<u>Molecular Oncology</u>	Michael A. Lea lea@njms.rutgers.edu 973-972-5345	Open to Masters & PhD students.	2	N	Monday	1/8	5/7	6:00 PM	7:50 PM	ICPH Auditorium Confirmed by instructor
BIOC 5125Q	<u>Viruses, Cells and Disease</u>	Michael Mathews mathews@njms.rutgers.edu 973-972-3133 Sergei Kotenko kotenkse@njms.rutgers.edu 973-972-3134	Open to Masters & PhD students. Approval by Course Directors for Masters students.	2	N	Tuesday & Thursday	1/9	2/27	5:00 PM	6:50 PM	Cancer Center Room G1196 Confirmed by Course Director
BMEG 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement					
BMEG 5930Q*	Biomedical Engineering Research	Faculty		1 to 10	S/U	By Arrangement					
BMEG 593AQ, BQ, CQ*	Biomedical Engineering Research	Faculty		2	N	By Arrangement					
CBMM 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement					
CBMM 5020Q	<u>Developmental Biology & Stem Cells</u>	Diego Fraidenaich fraidedi@njms.rutgers.edu 973-972-5525	Open to Masters & PhD students.	2	N	Tuesday & Friday	2/20	4/16	10:00 AM	11:50 PM	MSB Room G609 Confirmed by course instructor
CBNP 5000Q	CBNP Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement					
CBNP 5033Q	<u>Systems Neuroscience</u>	Kevin Beck beckkd@njms.rutgers.edu 973-676-1000 x3682	Enrollment limit 15.	2	N	Tuesday & Wednesday	4/24	6/13	5:00 PM	6:50 PM	Cancer Center Room F1196 Requested

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CBNP 5036Q	<u>Molecular Physiology of Cell Communication</u>	Mariana De Lorenzo delorems@njms.rutgers.edu 973-972-0822 Andrew Harris aharris@njms.rutgers.edu 973-972-1620	Open to PhD Students only. Required of all CBNP 1st year students.	4	N	Monday & Wednesday	1/3	4/16	3:00 PM	4:50 PM	MSB Room G-609 Confirmed by Professor
CBNP 5037Q	<u>Regenerative Medicine</u>	Elizabeth Moran moranel@njms.rutgers.edu 973-972-5854 Steve Levison levisosw@njms.rutgers.edu 973-972-5162	Open to Masters & PhD students. Background in cell biology and development suggested.	2	N	Monday & Wednesday	4/23	6/13	3:00 PM	4:50 PM	Cancer Center Room G1196 Requested
CBNP 5068Q	<u>Molecular Mechanisms of Diseases</u>	Yongkyu Park parky1@njms.rutgers.edu 973-972-2969	Open to Masters & PhD students. Background in Cell and Molecular Biology	3	N	Monday	2/12	5/21	9:00 AM	11:50 AM	MSB Room G609 Confirmed by course instructor
CBNP 5140Q	<u>Topics in Neuroimmunology</u>	Christine Rohowsky-Kochan rohowscm@njms.rutgers.edu 973-972-7394	Open to Masters & PhD students. Immunology A (PATH511A) or Molecular & Cellular Immunology (PATH5210Q) or permission of course director.	2	N	Monday & Wednesday	2/26	4/20	5:00 PM	6:50 PM	MSB Room B617 Requested
CBNP 5156Q	Critical Readings in CBNP	Gopal Babu babugo@njms.rutgers.edu 973-972-5376 Robert Ledeen ledeenro@njms.rutgers.edu 973-972-7989	Open to PhD Students only.	1	S/U	Friday	1/12	4/6	1:30 PM	2:50 PM	MSB Room H-609B confirmed by course instructor
CBNP 5160Q	<u>Human Stem Cell Differentiation</u>	Diego Fraidenaich fraidedi@njms.rutgers.edu 973-972-5525	Open to PhD and Masters students Limited size of 8 (Intensive lab Course for 3 weeks)	2	N	Monday through Saturday	6/4	6/22	10:00 AM	11:50 AM	MSB Glevel (iPSC Core) Confirmed by Course Director

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CBNP 5255Q	<u>Endocrinology of Growth & Metabolism</u>	Nicholas Illsley illsleni@njms.rutgers.edu nillsley@hackensackumc.org 551-996-8122	Open to Masters & PhD students. Limit of 24 Students.	1	N	Wednesday	1/3	2/21	4:00 PM	5:50 PM	MSB Room B605 Requested
CBNP 5930Q*	Lab Rotations in CBNP	Joshua Berlin berlinjr@njms.rutgers.edu 973-972-1618 Joseph McArdle mcardle@njms.rutgers.edu 973-972-4428	Use this course # for all subsequent rotations.	1 to 10	S/U	By Arrangement					
CBNP 593AQ, BQ, CQ*	Lab Rotations in CBNP	Joshua Berlin berlinjr@njms.rutgers.edu 973-972-1618 Joseph McArdle mcardle@njms.rutgers.edu 973-972-4428	Utilize for first 3 rotations	2	N	By Arrangement					
DENT 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement					
DENT 5025Q	<u>Fundamentals of Dental Materials Science</u>	Anil Ardesna ardeshap@sdm.rutgers.edu 973-972-1892	Open to Masters & PhD students. Enrollment limit 35. See below for the required/recommended text for the course.	2	N	Friday	1/12	4/20	10:00 AM	11:50 AM	Dental School Room B853, B977 or B978 Requested
DENT 5085Q	<u>Dental Biochemistry</u>	Michael A. Lea lea@njms.rutgers.edu 973-972-5345	Open to Masters & PhD students. This is a Dental School course. Limited intake of 15 students only. Special permission required from: Dr. Vincent K. Tsiagbe 973-972-2612	4	N	Monday Wednesday	3/12	6/6	11:00 AM 10:00 AM	12:50 PM 11:50 AM	Dental School Oral Health Pavilion Room B961 confirmed by instructor
DENT 5220Q	Methods in Microscopic Imaging	Kabilan Velliyagounder velliyka@sdm.rutgers.edu 973-972-5051	Open to Masters & PhD students. Enrollment Limit 12.	2	N	Wednesday	1/3	4/18	1:00 PM	2:50 PM	Dental School Room C987 confirmed by instructor
DENT 5300Q	<u>Oral Microbiology</u>	Scott Kachlany kachlasc@sdm.rutgers.edu 973-972-3057	Open to both Masters and PhD students. Enrollment limit of 75. (See below for required text).	3	N	Monday Wednesday Friday	1/3	2/28	10:00 AM 10:00 AM 10:00 AM	11:50 AM 11:50 AM 11:50 AM	Dental School Oral Health Pavilion Room B963 confirmed by instructor

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DENT 5310Q	Oral Immunology	Vincent Tsiagbe tsiagbvk@sdm.rutgers.edu 973-972-2612	Open to Masters & PhD students. Limit of 75 students.	3	N	Monday Tuesday Wednesday	3/12	4/16	2:00 PM 1:00 PM 8:00 AM	3:50 PM 2:50 PM 9:50 AM	Oral Health Pavilion B-963
DENT 5910Q	Oral Biology Research Seminar	Scott Kachlany kachlasc@sdm.rutgers.edu 973-972-3057	Open to Masters & PhD students.	1	N	Friday	1/19	3/30	1:00 PM	1:50 PM	MSB Room B554 Requested
GSND 5001Q	Responsible Conduct of Research	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Mandatory for all PhD Students.	1	N	Monday	1/22	5/7	4:00 PM	4:50 PM	MSB Room B-610 Confirmed
GSND 5006Q	<u>Grantsmanship Skills</u>	Martha Nowycky nowyckmc@njms.rutgers.edu 973-972-4391 Teresa Wood woodte@njms.rutgers.edu 972-972-6529	Open to PhD Students only.	2	S/U	Tuesday Friday	1/2	2/23	3:00 PM 1:00 PM	4:50 PM 2:50 PM	MSB Room C600 Requested
GSND 5008Q	<u>QA/QI Research in Clinical Settings</u>	Ping-Hsin Chen chenpi@njms.rutgers.edu 973-972-7351 Steven Keller sek1949@gmail.com 973-972-5036	Open to Masters & PhD students. Prior experience in chart reviews and statistical analysis are not assumed or required. Enrollment limit of 35. Immunizations according to Rutgers policy.	3	N	Thursday	1/11	4/19	12:00 PM	1:50 PM	MSB Room B522 Confirmed
GSND 5300Q	Independent Study in Biomedical Sciences	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899		1 to 4	S/U	By Arrangement					
GSND 5325Q	Introduction to Bio-Medical Ethics	Dr. Michael E. Shapiro mes362@njms.rutgers.edu 973-972-6639	Open to Masters and PhS students Enrollment Limit 30	2	N	Thursday	1/4/18	4/26/18	10:00 AM	11:50 AM	MSB Room B605 Requested
GSND 5910Q	MD/PhD Seminar/Journal Club	Padmini Salgame salgampa@njms.rutgers.edu 973-972-8647	Restricted to students in MD/PhD program.	1 to 10	S/U	By Arrangement					
MBGC 5000Q	MBGC Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement					

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MBGC 5002Q	Introduction to Genomics, Proteomics, and Bioinformatics	Maryam Hassimi mh1140@njms.rutgers.edu Vivian Bellofatto bellofat@rutgers.edu	Open to Masters & PhD students. IBMS (GSND 5200Q) or Fundamentals A (GSND N500A) or permission of the course director.	2	N	Monday & Wednesday	2/26	4/18	10:00 AM	11:50 AM	MSB Room B540A&B Requested
MBGC 5015Q	<u>Cancer Biology: Extrinsic Factors in Cancer Progression</u>	Ian Whitehead whiteip@njms.rutgers.edu 973-972-5215	PhD Students only.	2	N	Tuesday & Friday	3/2	4/24	10:00 AM	11:50 AM	Cancer Center Room H-1196 Confirmed by instructor
MBGC 5020Q	<u>Cancer Biology: Intrinsic Cell Signaling and Cancer Development</u>	Ian Whitehead whiteip@njms.rutgers.edu 973-972-5215	PhD Students only.	2	N	Tuesday & Friday	1/9	2/27	10:00 AM	11:50 AM	Cancer Center Room H-1196 Confirmed by instructor
MBGC 5910Q	MBGC Seminar Series	Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405 Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Required course for MBGC students. Must register in the Fall AND Spring.	0.5	S/U	Monday thru Friday as seminars occur	1/2	6/8			
MBGC 5930Q*	Lab Rotations in MBGC	Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405 Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Use this course # for all subsequent rotations.	1 to 10	S/U	By Arrangement					
MBGC 593AQ, BQ, CQ*	Lab Rotations in MBGC	Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405	Utilize for first 3 rotations.	2	N	By Arrangement					
MICR 5000Q	Microbiology Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement					
MICR 5231Q	<u>Molecular Virology</u>	Hua Zhu zhuhu@njms.rutgers.edu 973-972-6488	Open to Masters & PhD students. Fundamentals A (GSND N500A), or IBMS (GSND 5200Q), or MGM (GSND 5210Q), or permission of course director.	3	N	Monday, Tuesday, Thursday	6/4	7/3	5:30 PM	8:20 PM	ICPH Auditorium Confirmed by instructor

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MICR N5233	<u>Microbes and Infectious Disease</u>	Stephen Garrett garretst@njms.rutgers.edu 973-972-4511	Open to Masters & PhD students.	3	N	Tuesday	1/2	4/24	2:00 PM	4:50 PM	MSB Room B610 Confirmed
MPHD 5000Q	MD/PhD Thesis Research	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	Padmini Salgame salgampa@njms.rutgers.edu 973-972-8647	Restricted to students in MD/PhD program.	1 to 10	S/U	By Arrangement					
MSBS 5120Q	Pharmaceutical Internships	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Open to Masters & PhD students. Permission of the course director.	2 to 3	S/U	By Arrangement					
MSBS 5125Q	Teacher Training Internship	Carol Lutz lutzcs@njms.rutgers.edu 973-972-0899	Open to Masters & PhD students. Permission of Dr. Lutz.	1 to 3	S/U	By Arrangement					
MSBS N5134	<u>Hematopoietic Stem Cell Biology</u>	Pranela Rameshwar rameshwa@njms.rutgers.edu 973-972-0625	Open to Masters & PhD students. Background in cell biology and stem cell biology suggested.	2	N	Monday	1/22	3/30	6:00 PM	7:50 PM	MSB Room B-610 Requested
MSBS N512Q	<u>Topics in Cancer Stem Cell Biology</u>	Pranela Rameshwar rameshwa@njms.rutgers.edu 973-972-0625	Open to Masters & PhD students.	2	N	Tuesday and Thursday	5/29	7/3	6:00 PM	7:50 PM	MSB Room B610 Requested.
NEUR 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement					
NEUR N5040	<u>Neurobiology of Disease</u>	Kevin Beck beckkd@njms.rutgers.edu 973-676-1000 x3682 Stella Elkabes elkabest@njms.rutgers.edu 973-972-5163	Open to Masters & PhD students. Fundamentals of Neuroscience (NEUR 5200Q) or permission of course director.	3	N	Thursday	1/4	4/12	5:30 PM	8:20 PM	Cancer Center Room F1196 Requested
PATH 5000Q	Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement					

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PATH 5130Q	DNA Repair in Health and Disease	Muriel Lambert mlambert@njms.rutgers.edu 973-972-4405	Class size limited to 26 students This course is for PhD and Masters students	1	N	Monday & Wednesday	1/8	2/26	4:00 PM	5:20 PM	MSB Room B609B&C
PHMS 5000Q	Interdisciplinary Ph.D. Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement					
PHPY 5000Q	Thesis Research	Pharm/Phys Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement					
PHPY 5005Q	<u>Fundamentals of Human Physiology</u>	Krista Blackwell blackwkn@njms.rutgers.edu 973-972-2863	Open to Masters & PhD students. PhD students must have permission to enroll in the course.	3	N	Monday	1/8	4/23	2:00 PM	4:50 PM	Room TBD
PHPY 5085Q	<u>Neuroendocrinology: Regulation of Physiological Processes</u>	Vanessa Routh routhvh@njms.rutgers.edu 973-972-1489	Open to Masters & PhD students. IBMS (GSND 5200Q) or Fundamentals A (GSND N500A), or permission of course director. Physiological Principles (PHPY 5290) and/or Foundations in Neuroscience (NEUR 5110) suggested but not required.	2	N	Tuesday & Thursday	2/27	4/19	4:00 PM	5:50 PM	MSB Room H609 Confirmed By course Director MSB Room B610 requested for 3/15 and 4/19
PHPY 5930Q*	Research in Pharmacology and Physiology	Martha Nowycky nowyckmc@njms.rutgers.edu 973-972-4391	Limited to PHPY PhDs.	1 to 10	S/U	By Arrangement					
PHPY N526Q	Principles of Toxicology II	Ramez Labib ramezlabib@yahoo.com Thomas Visalli tvis624@yahoo.com	Open to Masters & PhD students.	3	N	Tuesday	2/6	5/8	6:00 PM	8:50 PM	MSB Room B556 Requested
TIII 5000Q	I3 Thesis Research	Faculty	Completion of course requirements.	5 PT 10 FT	S/U	By Arrangement					

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TIII 5022Q	Advanced Concepts in I3	George Yap yapgs@njms.rutgers.edu 973-972-5394 Padmini Salgame salgampa@njms.rutgers.edu 973-972-9490	Open to PhD students only. Classic & 21st Century Pathogens (TIII 5620Q) and Molecular & Cellular Immunology (PATH 5210Q).	4	N	Monday & Wednesday	2/26	6/14	1:00 PM	2:50 PM	Cancer Center Room F1196 requested
TIII 5930Q*	Lab Rotations in I3	David M. Lukac lukacdm@njms.rutgers.edu 973-972-4868 Matthew Neiditch	Use this course # for all subsequent rotations.	1 to 10	S/U	By Arrangement					
TIII 593AQ, BQ, CQ*	Lab Rotations in I3	David M. Lukac lukacdm@njms.rutgers.edu 973-972-4868 Matthew Neiditch neiditmb@njms.rutgers.edu 973-972-8981	Utilize for the first 3 rotations.	2	N	By Arrangement					

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

Last Update: 03-28-2018 BS

Required/Recommended Text

BIOC 5100Q	<i>Molecular Oncology</i>	R.A. Weinberg. The Biology of Cancer, Garland Science, New York, NY, 2014
CBNP 5037Q	<i>Regenerative Medicine</i>	David L. Stocum entitled "Regenerative Biology and Medicine" 2nd Edition which is published by Academic Press. ISBN: 978-0-12-384860-4.
CBNP 5170Q	<i>Exercise & Environmental Physiology</i>	ACSM' Advanced Exercise Physiology
CBNP 5250Q	<i>Introduction to Neurochemistry & Neuropharmacology</i>	Basic Neurochemistry, Eighth Edition: Principles of Molecular, Cellular, and Medical Neurobiology
DENT 5025Q	<i>Fundamentals of Dental Materials Science</i>	Introduction to Dental Materials 4 th Edition. Richard Van Noort
DENT 5085Q	<i>Dental Biochemistry</i>	Lippincott's Illustrated Reviews in Biochemistry, 6th North American Ed. ISBN-13:978-1451175622. See Syllabus for more
DENT 5300Q	<i>Oral Microbiology</i>	Medical Microbiology, 7th edition. Murray, et al. Mosby, Inc. ISBN: 978-0-323-08692-9.

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DENT 5310Q	<i>Oral Immunology</i>		Recommended: Janeway's Immunology, 9 th edition, 2017. ISBN: 978-0-8153-4505-3, see syllabus for others								
MBGC 5002Q	<i>Introduction to Genomics, Proteomics & Bioinformatics</i>		Recommended Textbooks: Discovering Genomics, Proteomics & Bioinformatics (2nd Edition. 2006) Campbell A. M. & Heyer L. J. (Benjamin Cummings).								
MBGC 5015Q	<i>Cancer Biology: Extrinsic Factors in Cancer Progression</i>		The Biology of Cancer by Robert A. Weinberg								
MBGC 5020Q	<i>Cancer Biology: Intrinsic Cell Signaling and Cancer Development</i>		The Biology of Cancer by Robert A. Weinberg								
MSBS N5134	<i>Hematopoietic Stem Cell Biology and Dysfunction</i>		Recommended: Clinical Hematology, Edited by Neal S. Young, Stanton L. Gerson and Katherine A. High. Mosby Elsevier, ISBN 0-323-01908-0								