

MÜHENDİSLİK ve DOĞA BİLİMLERİ FAKÜLTESİ

Türkiye'nin Beyin Üssü

MOLEKÜLER BİYOLOJİ ve GENETİK (İngilizce)



Öğrenim Dili: İngilizce (Zorunlu İngilizce Hazırlık) Puan Türü: SAY



Biyolojik çeşitliliği oluşturan canlı sistemlerin işlevleri üzerindeki araştırmalar çok yönlü ve çok disiplinli bir yaklaşımı gerektirmektedir.

Temelini biyoloji, kimya ve fizikten alan gelişimini genetik teknolojiler (genomik, proteomik, metabolomik vb.] ve biyoinformatik ile sürdüren moleküler biyoloji ve genetik bugün artık bu alandaki bilgi birikiminin olağanüstü boyutlara ulaşması ve tıp, eczacılık, ziraat, veterinerlik ve mühendislik gibi uygulama alanları ile etkileşimi sonucu bağımsız bir disiplinlerarası bilim dalı olarak yoluna devam etmektedir.

Canlıları oluşturan biyomolekülleri, nasıl işlediklerini ve genetik bilginin nasıl aktarıldığını araştıran, hastalıkların moleküler mekanizmalarını aydınlatmaya, biyolojik sistemlerde ürettiği bilgileri ürüne veya hizmete dönüştürerek biyoteknolojiyi geliştiren moleküler biyoloji ve genetik, hiç şüphesiz dünyamızın geleceğini etkileyecek en önemli temel bilim dallarından biridir.

Eğer Siz de

Canlılığın hücresel ve moleküler temellerini anlamak, Mikroorganizma, bitkiler ve diğer canlıları örnek alarak yeni biyoteknolojik ürünler üretmek, Çağımızın önemli hastalıklarının oluşum mekanizmalarını araştırmak,

Ölümcül hastalıkları tedavi edebilecek ilaçlar geliştirmek,

- Yeni biyosistemleri insanlığın hizmetine sokmak,
- DNA analizi, gen haritası, genetik danışmanlık, ilaç tasarımı, gıda teknolojileri gibi birçok alanlara atkıda bulunmak,

kısacası canlıların içinde, moleküler dünyada bir yolculuk yaparak tüm sırları açığa çıkarmak istiyor ve merakınıza, sabrınıza, iletişiminize güveniyorsanız Moleküler Biyoloji ve Genetik mesleğini tercih edebilirsiniz.

Çalışabilecekleri Yerler

- Akademi
- Biyoteknoloji şirketlerinde özellikle medikal, farmasötik, zirai endüstri
- Gıda endüstrisi
- Çevre ve doğal hayatı koruma ile ilgili kamu ya da özel kuruluşlar
- Hastaneler
- Özel klinik ve laboratuvarlar
- Tüp bebek üniteleri
- Biyomedikal cihazlar ile ilgili şirketler
- Araștırma enstitülerinde araștırıcı ya da yönetim kademeleri



DERS PROGRAMI

							YEAR	ONE							
	1st Term	_	1 -						2nd Term	1 -	-	1	1 -		
Code	Course Name	T	P	L	c	ECTS	Prerequisite	Code	Course Name	T 3	P	L	c	ECTS	Prerequisite
MBG101 MATH101	General Biology I* Calculus I*	3	0	2	4	7		MBG102 MBG108	General Biology II* Introduction to Programming*	3	0	2	4	7	
PHYS101	Physics I*	3	0	2	4	6		MATH102	Calculus II*	3	2	0	4	6	
CHEM101	General Chemistry I*	3	0	2	4	6		PHYS102	Physics II*	3	0	2	4	6	
RCUL101	University Culture I*	0	2	0	1	1		CHEM102	General Chemistry II*	3	0	2	4	6	
RPSC109	Positive Psychology and Communcation Skills	3	0	0	3	5		RCUL102	University Culture II*	0	2	0	1	1	
Total Credits		15	4	6				Total Credits					19		
							YEAR	тwo							
	3rd Term								4th Term						
Code	Course Name	Т	Р	L	С	ECTS	Prerequisite	Code	Course Name	Т	Р	L	С	ECTS	Prerequisite
MBG209	Microbiology*	3	0	2	4	6		MBG204	Introduction to Bioinformatics*	2	2	0	3	5	
MBG211	Genetics*	3	0	2	4	7		MBG210	Physiology*	3	0	2	4	6	
MBGXXX	Departmental Elective I	3	0	0	3	5		MBG212	Molecular Genetics	3	0	0	3	4	MBG 211
TURK101	Turkish Language I	2	0	0	2	3		CHEM104	Organic Chemistry*	3	0	2	4	6	
ATA101 ENG101	Principles of Atatürk and History of Turkish Revolution I English I	2	0	0	2	3 3		TURK102 ATA102	Turkish Language II Principles of Atatürk and History of Turkish Revolution II	2	0	0	2	3	
RPRE104	Entrepreneurship and Project Culture	2	0	0	2	3		ENG102	English II	3	0	0		3	
Total Credits		18	0	4	20			Total Credits		18			21		
Total creats		10			20	30		THREE		10	-			30	
	5th Term								6th Term						
Code	Course Name	т	Р	L	С	ECTS	Prerequisite	Code	Course Name	Т	Р	L	С	ECTS	Prerequisite
MBG 309	Biochemistry I*	3	0	2	4	7	CHEM 104	MBG304	Recombinant DNA Technology*	3	2	0	4	7	MBG 212
MBG325	Biotechnology	3	0	0	3	4	MBG 212	MBG310	Biochemistry II*	3	0	2	4	7	CHEM 104
MBG331	Current Developments in Molecular Biology*	0	2	0	1	1		MBG314	Molecular Cell Biology*	3	0	2	4	7	
MBGXXX	Departmental Elective II	3	0	0	3	5		MBG384	Summer Practice**	0	0	0	0	5	
XXXXXX	Field Elective I	3	0	0	3	5		MBGXXX	Departmental Elective III	3	0	0	3	5	
XXXXXXX	Social Elective I	3	0	0	3	5				-	<u> </u>	-	-	1	
XXXXXXX Tatal Credite	Social Elective II	3	0	0	3	5		Tabal Courts			-				
Total Credits		18	2	2	20	32	YEAR	Total Credits		12	2	4	15	31	
_	7th Term						TEAR	TOON	8th Term						
Code	Course Name	т	Р	L	С	ECTS	Prerequisite	Code	Course Name	т	Р	L	C	ECTS	Prerequisite
MBG405	Immunology	2	0	0	2	3		MBG408	Bioethics	2	0	0	2	3	
MBG493	Graduation Project*	0	0	6	3	5		MBG494	Graduation Thesis*	0	0	8	4	10	MBG 493
MBGXXX	Departmental Elective IV	3	0	0	3	5		MBGXXX	Departmental Elective V	3	0	0	3	5	
XXXXXXX	Field Elective II	3	0	0	3	5		MBGXXX	Departmental Elective VI	3	0	0	3	5	
XXXXXX	Field Elective III	3	0	0	3	5		XXXXXXX	Field Elective IV	3	0	0	3	5	
XXXXXXX	Social Elective III	3	0	0	3	5		OHS402	Occupational Health and Safety II	2	0	0	2	2	
OHS401	Occupational Health and Safety I	2	0	0	2	2									
Total Credits		16	0	6	19	30		Total Credits		13	0	8	17	30	
	Elective Course Batio			5 %					* These courses are under the Applied Course status. ** These courses are under the Internship Course status.	7					
	Elective Course Ratio		26	%				ourse - Pool	** These courses are under the Internship Course status.]					
Code	Departmental Elective Courses	т		%	K	ECTS	Prerequisite	Code	** These courses are under the Internship Course status. Seçmeli Yabancı Diller] 					Prerequisite
Code	Departmental Elective Courses Field : Biotechnology		26	%	К	ECTS	Prerequisite	Code ARB123	** These courses are under the Internship Course status. Seçmeli Yabancı Diller Arabic I	3	0	0	3	5	
	Departmental Elective Courses Field : Biotechnology Departmental Electives With Project Grd Year & 4th Ye	ear)	26	% L	_		Prerequisite	Code ARB123 ARB124	** These courses are under the Internship Course status. Segmeli Yabancı Diller Arabic 1 Arabic 1 Arabic 1	3	0	0	3	5 5	Prerequisite ARB123
MBG318	Departmental Elective Courses Field : Biotechnology Departmental Electives With Project (3rd Year & 4th Ye Microbial Metabolism	ear) 3	26 U	% L	3	5	Prerequisite	Code ARB123 ARB124 CHN123	** These courses are under the Internship Course status. Seçmeli Yabancı Diller Arabic I Arabic I Chinese I	3 3 3	0 0 0	0 0 0	3 3 3	5 5 5	
	Departmental Elective Courses Field : Biotechnology Departmental Electives With Project Grd Year & 4th Ye	ear)	26	% L	_		Prerequisite	Code ARB123 ARB124	** These courses are under the Internship Course status. Segmeli Yabancı Diller Arabic 1 Arabic 1 Arabic 1	3	0	0	3	5 5	ARB123
MBG318 MBG321	Departmental Elective Courses Field : Biotechnology Departmental Electives With Project (3rd Year & 4th Ye Microbial Metabolism Plant Genetics and Biotechnology Advanced Methods in Molecular Biology Biochemical Ecology	ear) 3 3	26 U 0 0	% L 0 0	3	5	Prerequisite	Code ARB123 ARB124 CHN123 CHN124	** These courses are under the Internship Course status. Segmeli Yabanci Diller Arabic I Arabic I Chinese I Chinese I Chinese II	3 3 3 3	0 0 0	0 0 0	3 3 3 3	5 5 5 5	ARB123
MBG318 MBG321 MBG441 MBG427	Departmental Elective Courses Field : Biotechnology Departmental Electives With Project (3rd Year & 4th Y Microbial Metabolism Plant Genetics and Biotechnology Advanced Methods in Molecular Biology Biochemical Ecology Departmental Electives (4th Year)	ear) 3 3 3	26 U 0 0 0 0	% 0 0 0 0 0	3 3 3 3	5 5 5 5	Prerequisite	Code ARB123 ARB124 CHN123 CHN124 ESP123 ESP124 FRN123	** These courses are under the Internship Course status. Segmeli Yabancı Diller Arabic I Arabic I Chinese I Chinese I Spanish I Spanish II French I	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123
MBG318 MBG321 MBG441 MBG427 MBG415	Departmental Elective Courses Field : Biotechnology Departmental Electives With Project (3rd Year & 4th Ye Microbial Metabolism Plant Genetics and Biotechnology Advanced Methods in Molecular Biology Biochemical Ecology Departmental Electives (4th Year) Industrial Microbiology	ear) 3 3 3 3	26 U 0 0 0 0	% L 0 0 0 0	3 3 3 3 3	5 5 5 5	Prerequisite	Code ARB123 ARB124 CHN123 CHN124 ESP123 ESP124 FRN123 FRN124	** These courses are under the Internship Course status. Segmell Yabanci Diller Arabic I Arabic I Chinese I Chinese I Chinese I Spanish I Spanish I French I French I French I	3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123
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MBG318 MBG321 MBG441 MBG427 MBG415 MBG440 MBG313 MBG341 MBG343 MBG342	Departmental Elective Courses Field : Biotechnology Departmental Electives With Project (3rd Year & 4th Ye Microbial Metabolism Plant Genetics and Biotechnology Advanced Methods in Molecular Biology Biochemical Ecology Departmental Electives (4th Year) Industrial Microbiology Field : Cell Biology Departmental Electives With Project (3rd Year & 4th Ye Cancer Molecular Biology Introduction to Toxicology Genetic Diorders Stem Cell Technologies Departmental Electives (4th Year)	ear) 3 3 3 3 3 3 2 ar) 3 3 3 3 3 3 3	26 0 0 0 0 0 0 0 0 0 0 0 0 0	% L 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5	Prerequisite	Code ARB123 ARB124 CHN123 CHN124 ESP123 ESP124 FRN124 GER124 GER124 GER124 RSN123 RSN124	** These courses are under the Internship Course status. Secmeli Yabancı Diller Arabic I Arabic I Chinese I Chinese I Spanish I Spanish I French II French II German I German I Russian I Russian I Field Elective Courses ective courses, any departmental elective course having appropriat	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123 GER123 RSN123
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MBG318 MBG321 MBG441 MBG427 MBG415 MBG440 MBG313 MBG341 MBG343 MBG342	Departmental Elective Courses Field : Biotechnology Departmental Electives With Project (3rd Year & 4th Ye Microbial Metabolism Plant Genetics and Biotechnology Advanced Methods in Molecular Biology Biochemical Ecology Departmental Electives (4th Year) Industrial Microbiology Field : Cell Biology Departmental Electives With Project (3rd Year & 4th Ye Cancer Molecular Biology Departmental Electives With Project (3rd Year & 4th Ye Cancer Molecular Biology Genetic Disorders Stem Cell Technologies Departmental Electives (4th Year) Neurochemistry Netroional Biochemistry	ear) 3 3 3 3 3 3 2 ar) 3 3 3 3 3 3 3	26 0 0 0 0 0 0 0 0 0 0 0 0 0	% L 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5	Prerequisite	Code ARB123 ARB124 CHN123 CHN124 ESP123 ESP124 FRN124 GER124 GER124 GER124 RSN123 RSN124	** These courses are under the Internship Course status. Seçmeli Yabancı Diller Arabic I Arabic I Chinese I Chinese I Chinese I Spanish I French I French I German I German I Russian I Russian I Russian I Field Elective Courses ective courses, any departmental elective course having appropriat Engineering and Natural Sciences can be	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ARB123 CHN123 ESP123 FRN123 GER123 RSN123
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