**Department of Molecular Biology and Genetics (English)**

**Graduation Project & Graduation Thesis**

**Project Lists**

**General Information**

Graduation Project Coordinator for MBG-EN (students & faculty) : Assist. Prof. Dr. Pınar Öz

It is obligatory for 4th year MBG EN students to take MBG 493 Graduation Project and MBG 494 Graduation Thesis courses in their final year.

The Graduation Project Coordinator arranges the announcement of proposed project titles and monitors the student admissions. However, it is student’s responsibility to choose and contact the faculty member for the listed projects. The faculty members will decide on admissions.

Student Admissions

* Students should directly contact the faculty member for the proposed project titles. In case of acceptance, the coordinator should be informed by the faculty member.
* If the student is admitted in a project by a faculty member outside the list (but in the Faculty of Engineering and Natural Sciences), the project title, project type and the student name should be sent to the coordinator by the faculty member. Deadline is October 15, 2018.
* The students can choose a co-supervisor outside the faculty/university. However, the main supervisor must be among the full-time faculty members of Faculty of Engineering and Natural Sciences.
* Only if the faculty member allows and/or specifies in the list, students from other departments can choose a project from the list and contact the faculty member.

About the projects

* MBG 493 Graduation Project will be prepared as a review related to the proposed project title and it should be in English.
* Project title can change throughout the term, however, it is advised that it remains in the same area. When there is a change in the project title, the MBG 493 coordinator should be informed by the student/faculty member before November 5, 2018.
* MBG 494 Graduation Thesis ideally follows the same project, however, Project and Thesis titles are generally different. The Thesis can use the information gathered in the Project, however, the content should not be entirely the same.
* Thesis titles are generally finalized at the first week of Spring Semester.
* The course grading will be performed by the faculty members. Suggested grading system is
	+ Progress Report(s) % 50
	+ Final Report % 50

However, this can be changed by the faculty member, as they deem appropriate.

* The format of MBG 493 Graduation Project reports will be provided by the faculty member, there will not be a general format.

**Important Dates**

* + Announcement of Project Lists October 5, 2018
	+ Finalization of Student Lists per Faculty Member October 15, 2018
	+ Announcement of Final Grades January 23, 2019

**Projects with Open Quotas**

**From Department of Molecular Biology And Genetics (English)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Faculty Member** | **Project Title** | **Project Type** | **Quota** | **Prerequisite** |
|
| Assist. Prof. Dr. Pınar Öz | Sleep neurochemistry and disturbances in neurodevelopmental disorders | Review | 1 | MBG 307, MBG 326 |
| Prof. Dr. Tunç Çatal | Removal of heavy metals from wastewaters using microorganisms | Review | 1 | MBG EN |
| Recent advances in anaerobic digestion technology  | Review | 1 | MBG EN |
| Microbial biosensors | Review | 1 | MBG EN |
| [Apoptotic effects of antioxidant compounds on human cells](https://www.ncbi.nlm.nih.gov/pubmed/29142424) lines | Review  | 1 | MBG EN |
| Synergistic effects of antioxidant compounds in apoptosis | Review | 1 | MBG EN |

**From Other Departments**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Faculty Member** | **Project Title** | **Project Type** | **Quota** | **Prerequisite** |
|
| Assist. Prof. Dr. Zeynep Kanlıdere | Molecular properties and Applications of Acyclic Nucleic Acids: Threoninol Nucleic Acids; Serinol Nucleic Acids; Glycerol Nucleic Acids | Review | 2 | Background in organic chemistry  |
| Applications of Peptide Nucleic Acids (PNA) as drugs, fluorescent probes, and nanomaterials | Review | 2 |

**Pre-matched Projects**

**From Department of Molecular Biology And Genetics (English)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Faculty Member** | **Project Title** | **Project Type** | **Pre-matches** |
| **Students** | **Department** |
| Assist. Prof. Dr. Pınar Öz\* | Biomarkers of adult neurogenesis | Experimental | Furkan Hoşer | MBG EN |
|  Doublecortin in the mammalian brain : Distribution and Characteristics | Experimental | Merve Yılmaz | MBG EN |
| Computational models of adult neurogenesis | Experimental | Betül Yücel | MBG EN |
| Sleep deprivation and neuroimmunology | Experimental | Bengisan Divrik | MBG EN |
| In vitro models of adult neurogenesis | Experimental | Esra Yıldırım | MBG EN |
| Stress granules in neurological disorders | Review  | Muhammet M. Öztürk | MBG EN |
| Prof. Dr. Tunç Çatal  | Recent advances in microbial biotechnology | Review | Hilal Taşkıran | MBG EN |
| Hydrogen production by algae | Review | Havva Betül İstanbullu | MBG EN |

\* Project titles can be altered after discussion.

**From Other Departments**

|  |  |  |  |
| --- | --- | --- | --- |
| **Faculty Member** | **Project Title** | **Project Type** | **Pre-matches** |
| **Students** | **Department** |
| Assist. Prof. Dr. Ahmet Can Timuçin | Peptide Design for Distrupting Protein-Protein Interactions  | Experimental | Beyzanur Sözer | MBG (Eng) |
| Beyza Kinsiz | MBG (Eng) |
| Nisa Çalık | MBG (Eng) |
| Rukiye Çom  | MBG (Eng) |
| Kübra Kara  | MBG (Eng) |
| Hilal Taşkıran  | MBG (Eng) |
| Seval Kübra Korkunç | MBG (Eng) |
| Fatıma Hacer Kurtoğlu | MBG (Eng) |
| Ebru Yıldız | MBG (Eng) |
| Melike Aydoğan | MBG (Eng) |
| Mehmet Yağız Çapanoğlu | MBG (Eng) |
| Ayça Turan | MBG (Eng) |
| Hatice Şevval Güven | MBG (Eng) |
| Burak Eğriboyun | MBG (Eng) |
| Assist. Prof. Dr. Kaan Yılancıoğlu | Possible cognitive and physiological problems for *Homo Sapiens* from an evolutionary biology perspective | Review | Kübra Bingül | MBG EN |

 \* Students marked with yellow should see their supervisor.

|  |  |  |
| --- | --- | --- |
| **Faculty Member****(MBG – EN)** | **Number of Suggested Projects** | **Number of Open Positions** |
|
| Prof. Dr. Muhsin Konuk | 0 | 0 |
| Assoc. Prof. Dr. Tunç Çatal | 7 | 5 |
| Assist. Prof. Dr. Pınar Öz | 7 | 1 |
| Assist. Prof. Dr. Shirin Tarbiat | 0 | 0 |
| **Faculty Member****(Other)** | **Number of Suggested Projects** | **Number of Open Positions** |
| Assist. Prof. Dr. Kaan Yılancıoğlu | 1 | 0 |
| Assist. Prof. Dr. Ahmet Can Timuçin | 15 | 0 |
| Assist. Prof. Dr. Zeynep Kanlıdere | 4 | 4 |
|  | **Total Number of Suggested Projects** | **Total Number of Open Positions** |
| 34 | 10 |