



# MY GENES MY CURE

ROTARY FOUNDATION GLOBAL GRANT PROJECT  
OF  
RC BURSA YEŐİL  
WITH THE CONTRIBUTION OF ROTARY CLUBS OF D. 2440  
2019-2020



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## SHORT SYNOPSIS OF THE PROJECT:

Establishing a molecular pathology laboratory in Bursa Uludag University Faculty of Medicine, Pathology department, in Bursa, Turkey.

## AREA OF FOCUS:

Disease prevention and treatment

## PROJECT PARTNERS:

RC of Bursa Yeşil (leading club) and Rotary clubs of D.2440, D.2440, Districts and Rotary clubs abroad, Bursa Uludag University Faculty of Medicine; Turkish Pathology Society.

## PROJECT DESCRIPTION:

### What is Pathology?

Pathology is the discipline that examines the causes and mechanisms of diseases. Pathologists examine cell and tissue samples taken from patients and provide a diagnosis, appropriate treatment and direct treatment when necessary.

### What is Molecular Pathology?

Following the successful completion of one of the largest scientific projects in human history, "Human Genome Project" in 2003, the use of molecular methods in medicine has accelerated and a new pathology sub-discipline called "**Molecular pathology**" has emerged for diagnosis, prognosis and targeted treatment of diseases. By examining macromolecules such as DNA and RNA which encode the genetic information in cells, molecular pathology plays an important role especially in the diagnosis of cancer, predicting the course of disease and deciding which treatment method will be more beneficial for the patient.

In practice, general treatment approaches and protocols are available for cancer patients. Unfortunately, general treatment protocols rarely achieve successful results. With molecular pathological examination, the genomic mapping of the tumor is obtained and patient-specific treatment opportunities are offered.



Molecular pathology tests can be used in the diagnosis of lymphoma and soft tissue tumors or identifying patients to receive targeted treatment in lung, breast and digestive system cancers. Especially in lung cancer, targeted treatment has gained great success in recent years.

#### **Molecular Pathology Laboratories in Turkey:**

University of Hacettepe, University of Ankara , University of Gazi, University of İstanbul Çapa ve Cerrahpaşa Medicine Faculty, University of Ege , University of 9 Eylül , University of Aydın Adnan Menderes , University of Trakya , University of Çukurova , University of Antalya, University of Kayseri , University of Acıbadem , University of Koç have Molecular pathology laboratories in their hospitals.

*There is no Molecular Pathology Laboratory in Bursa and South Marmara Region yet.*

Bursa Uludağ University Department of Pathology has examined 36,228 cases in 2018 and is a unit serving a wide geography.

#### **AIM OF THE PROJECT:**

As a result of establishing Molecular Pathology Laboratory in Bursa Uludag University Faculty of Medicine;

- It will be the **first public hospital** to provide services to cancer patients in the field of molecular pathology, not only in Bursa but also in the South Marmara Region.
- It will ensure that the most effective treatment specific to each cancer patient is given without loss of time.
- **The success rate in cancer treatment will increase** as a result of molecular pathological diagnosis and targeted treatment.
- Estimated **1000-2000 patients** will benefit annually.
- There will be no need for patients or their relatives in Bursa and South Marmara to go to other cities for molecular pathology services.
- Patients and their relatives will be free of the the burden of **additional costs** such as road / accommodation / other laboratory examinations etc.
- **10-20 days** will be gained per patient before the right treatment begins.
- **Contributing to the mission and vision** of Bursa Uludag University Faculty of Medicine, it will favor its national and international academic rankings.

**TOTAL PROJECT BUDGET: 57.230 USD**

**LIST OF PRIORITY MATERIALS REQUIRED FOR ESTABLISHING MOLECULAR PATHOLOGY  
LABORATORY**

ORDER	NAME OF THE ITEM	PRICE (VAT	
		UNIT	INCLUDED)
1	Biosafety cabinet (Class II)Mipro(120cm)	1	4720 USD
2	RT-PCR(LABTRON LRTP-A10	1	25960 USD
3	Traditional PCR(BIOGENER GE9612T	1	3540 USD
4	Electrophoresis system (MRCLAB ME10-7-10 + PWR-3040)	1	1770 USD
5	Gel imaging system (UV imaging or computerized gel imaging system) (ABT BRAND	1	6490 USD
6	Microtome(MRCLAB MIT-55AT-1)	1	14750 USD
	<b>TOTAL</b>	<b>6</b>	<b>57,230 USD</b>

**PROJECT DURATION** : April/2020

**CONCLUSION**

With the establishment of the molecular pathology laboratory within the Faculty of Medicine of Uludağ University, which provides great progress in the diagnosis and treatment of cancer, many patients will return to life and their time and quality of life and will increase.

This project will be a great service for humanity, for the people of South Marmara region and the city of Bursa City.

We thank for your support and contribution.

**ROTARY CLUB OF BURSA YESİL**

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