

# Atalay Demiray, MD (He/Him/His)

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## EDUCATION

### **Yale University**

*Ph.D. student in Health Policy and Management*

New Haven, CT, USA

Expected August 2028

### **Erasmus University Rotterdam**

*M.Sc. in Health Economics, Policy & Law*

Jean Monnet Scholar funded by the European Union

Rotterdam, the Netherlands

August 2023

### **Koç University**

*M.D. (Doctor of Medicine)*

Graduated with distinction, ranking third in the class

Istanbul, Türkiye

July 2022

### **Mayo Clinic College of Medicine and Science**

*Visiting Medical Student Clerkships (completed with High-Pass)*

Rochester, MN, USA

June-July 2022

### **Koç University**

*Bachelor of Arts in International Relations*

*Minor in Economics*

GPA: 3.89/4.00 with First-Class Honors, ranking first in the class

Minor GPA: 4.00/4.00

Istanbul, Türkiye

July 2022

### **Istanbul Atatürk Science High School**

Graduation with Outstanding Achievement & Honor Certificate

Istanbul, Türkiye

June 2015

## RESEARCH EXPERIENCE

### **Koç University**

*Undergraduate Researcher*

Public Health Research as a Millennium Fellowship

- Questionnaire preparation for assessing demographics, health knowledge, and attitudes of university students
- Health education design for reproductive health, including presentations, lectures, zoom meetings
- Assessment of peer-produced health education on knowledge and attitudes of university students

Istanbul, Türkiye

2021 - 2022

### **Koç University**

*Undergraduate Researcher*

Clinical Research with Professor Kanbay

- Conducting meta-analysis and systemic reviews on the effects of SGLT2
- Helping clinical research on evaluating a sugar beverage by recruiting volunteers and collecting blood samples
- Working with my peers to conduct literature reviews, analyze data, and draft manuscripts
- Published several articles in peer-reviewed journals

Istanbul, Türkiye

2019 - 2022

### **The University of Castilla-La Mancha**

*Summer Undergraduate Researcher*

Biochemistry Lab as IFMSA Research Exchange

- Worked in the biochemistry laboratory of Professor Inmaculada Ballesteros Yáñez
- Detection of neuronal changes of mice after cocaine administration via Western Blot
- Observation of changes in dendrite formation via microscopy

Ciudad-Real, Spain

July 2019

### **Koç University**

*Undergraduate Researcher*

Microbiology Lab of Professor Can

- Identification of virulence factors of Colistin-Resistant K. pneumonia via PCR
- Genotyping of K. pneumonia isolates by MLST
- Detection of neutrophil extracellular traps against K. pneumonia via confocal microscope
- Presented poster at 29th European Congress of Clinical Microbiology & Infectious Diseases
- Published an article in Biology ([doi.org/10.3390/biology10050436](https://doi.org/10.3390/biology10050436))

Istanbul, Türkiye

2017 - 2019

## WORK EXPERIENCE

### **Erasmus University Rotterdam**

Student Assistant to UNIC (European University of Post-Industrial Cities)

Rotterdam, the Netherlands

2022 - 2023

- Assisted with timesheets and email box management.
- Assisted activities and projects for student engagement.

### **Koc University**

Work & Study in Dean's Office of School of Medicine

Managed the social media accounts of KUSOM

Istanbul, Türkiye

2017-2019

## VOLUNTARY ACTIVITIES: LEADERSHIP & TEAMWORK EXPERIENCE

### **Millennium Fellowship Project: Reproductive Health for All**

*Millennium Fellow & Team Leader, Class of 2021*

Istanbul, Turkey

August – December 2021

- Leadership program presented by the United Nations Academic Impact and Millennium Campus Network
- Selected as a Millennium Fellow out of 25,000+ applicants.
- Over the semester, led the 'Reproductive Health for All' project, helping >300 university students to gain accurate and valuable knowledge on reproductive and sexual health via a peer-produced online education.
- I was engaged in 10 leadership sessions to cultivate core values of empathy, humility, inclusion in leadership, and social impact. For more information, please see [my Millennium Fellowship profile](#).

### **Global Symposium on Health Workforce Accreditation (ECFMG & WHO)**

*Student Volunteer & Student Work-force Leader*

Istanbul, Türkiye

December 2019

- Helping with technical and logistical works of the symposium and attendees during sessions
- Managed a team of 25 students during the symposium in coordination with the ECFMG's team

### **Koç University Medical Students' Association (KUMSA)**

Treasurer (2017-18) & President (2018-19)

Istanbul, Türkiye

2017-2019

- Organized the budget of medical students' clubs and managed students' spending
- Provided communication between Dean's Office and medical students
- Organized meetings with the Dean's Office to discuss medical education
- Revised the KUMSA's internal rules with the executive board members for the more efficient administration

### **European Medical Students' Association (EMSA)**

Finance Assistant (2017-18) & Treasurer (2018-19)

Brussels, Belgium

2017 – 2019

- Managed all financial transactions and budgets and coordinated legal works in Belgium
- Collected membership fees, worked with the accountant, and organized sponsorships agreements
- Renewed the bookkeeping system of EMSA to increase transparency and accessibility
- Attended external meetings as an executive board member of EMSA for representation

### **Koç University, Synapsist Summer School**

*Treasurer (2017) & President (2018, 2019)*

Istanbul, Turkey

August 2017, 2018, 2019

- Synapsist is an international one-week summer school with lecture series from pioneer professors
- Undergraduate education focused on oncology (2017), organ transplantation (2018), and fertility (2019)
- A group of volunteer medical students does organizations under the supervision of the Dean's Office
- Managed 20-30 volunteer medical students and the budget of the international summer school

### **TÜBİTAK, Biology Olympiad National Summer School**

*Student Mentor*

Afyon, Turkey

September 2015

- Mentoring and providing Q&A sessions to 50 high-school students who are preparing for Biology Olympiad
- Helping professors for arranging their educational materials and lectures, exam questions

### **Istanbul Atatürk Science High School, Biology Olympiad Team**

*Student Coordinator and Mentor*

Istanbul, Turkey

2014-2015

- Helping and mentoring my peers' study for Biology Olympiad, giving lectures on several topics of Biology
- Coordinating lectures and creating a new curriculum for the Biology Olympiad with our teachers

## **SKILLS & INTERESTS**

**Language:** English (full professional proficiency), Turkish (native), Dutch (beginner).

**Interests:** Global Health, Health Policy, Public Health, Medical Education, Architecture.

### **Medical Education & Representations in Educational Committees:**

- Working as a standardized patient in Objective Structured Clinical Examinations (2021-2022)
- Essential Skills in Medical Education (ESME Student) AMEE course completed (April 2021)
- A student representative in Curriculum's Development & Coordination Committee (2020-2022)
- A student representative of the KUSOM'22 class (2016-2022)
- A student representative in Koç University School of Medicine Assessment Committee (2018-2019)

## **HONORS AND AWARDS**

- Jean Monnet Scholarship (2022-2023)
- Holland Scholarship (2022-2023)
- TEV Dr. Orhan Birman Honorable Mention for Medical Research (2022)
- Vehbi Koç Scholars Honor Prize (2017, 2018, 2019)
- Honor Certificate & Outstanding Achievement Certificate (2015)
- TÜBİTAK National Biology Olympiad Silver Medal (2014)

## **PUBLICATIONS**

- Afsar, B., Afsar, R. E., **Demiray, A.**, Altay, S., Korkmaz, H., Yildiz, A., Covic, A., Ortiz, A., & Kanbay, M. (2022). Sodium–glucose cotransporter inhibition in polycystic kidney disease: Fact or fiction. *Clinical Kidney Journal*, 15(7), 1275-1283. <https://doi.org/10.1093/ckj/sfac029>
- Afsar, B., Afsar, R. E., **Demiray, A.**, Covic, A., & Kanbay, M. (2021). Deciphering nutritional interventions for podocyte structure and function. *Pharmacological Research*, 172, 105852. <https://doi.org/10.1016/j.phrs.2021.105852>
- Copur, S., **Demiray, A.**, Basile, C., & Kanbay, M. (2023). Endocrinological disorders in acute kidney injury: An often overlooked field of clinical research. *Journal of Nephrology*, <https://doi.org/10.1007/s40620-022-01554-z>
- Copur, S., **Demiray, A.**, & Kanbay, M. (2022). Uric acid in metabolic syndrome: Does uric acid have a definitive role? *European Journal of Internal Medicine*, <https://doi.org/10.1016/j.ejim.2022.04.022>
- Demiray, A.**, Afsar, B., Covic, A., Kuwabara, M., Ferro, C. J., Lanaspa, M. A., Johnson, R. J., & Kanbay, M. (2022). *The role of uric acid in the acute myocardial infarction: A narrative review*. SAGE Publications. <https://doi.org/10.1177/00033197211012546>
- Demiray, A.**, Kanbay, A., & Kanbay, M. (2022). Long-term effect of COVID-19 infection on hemodialysis patients: Should we follow hemodialysis patients more closely? *Clinical Kidney Journal*, 15(3), 369-371. <https://doi.org/10.1093/ckj/sfab265>
- Demiray, A.**, & Kanbay, M. (2022). The assessment of hypertension in kidney transplant patients: Time to change our approach? *Clinical Kidney Journal*, 15(1), 1-4. <https://doi.org/10.1093/ckj/sfab151>
- Demiray, A.**, Öztosun, Ç., Acar, S., Sakarya, S., Gürsoy, T., & Ata, B. (2022). Transition from locally developed, faculty-written (LFW) examinations to the national board of medical examiners (NBME) subject examinations in clinical medical education. *SN Social Sciences*, 2(10), 200. <https://doi.org/10.1007/s43545-022-00510-9>
- Dogan, O., Vatansever, C., Atac, N., Albayrak, O., Karahuseyinoglu, S., Sahin, O. E., Kilicoglu, B. K., **Demiray, A.**, Ergonul, O., Gönen, M., & Can, F. (2021). Virulence determinants of colistin-resistant K. pneumoniae high-risk clones. *Biology (Basel, Switzerland)*, 10(5), 436. <https://doi.org/10.3390/biology10050436>
- Ertuglu, L. A., Afsar, B., Yildiz, A. B., **Demiray, A.**, Ortiz, A., Covic, A., & Kanbay, M. (2021). Substitution of sugar-sweetened beverages for other beverages: Can it be the next step towards healthy aging? *Current Nutrition Reports*, 10(4), 399-412. <https://doi.org/10.1007/s13668-021-00372-2>
- Ertuglu, L. A., **Demiray, A.**, Afsar, B., Ortiz, A., & Kanbay, M. (2022). The use of healthy eating index 2015 and healthy beverage index for predicting and modifying cardiovascular and renal outcomes. *Current Nutrition Reports*, <https://doi.org/10.1007/s13668-022-00415-2>
- Ertuglu, L. A., **Demiray, A.**, Basile, C., Afsar, B., Covic, A., & Kanbay, M. (2021). Sodium and ultrafiltration profiling in hemodialysis: A long-forgotten issue revisited. *Hemodialysis International*, 25(4), 433-446. <https://doi.org/10.1111/hdi.12952>
- Ertuglu, L. A., Porrini, E., Hornum, M., **Demiray, A.**, Afsar, B., Ortiz, A., Covic, A., Rossing, P., & Kanbay, M. (2021). Glucagon-like peptide-1 receptor agonists and sodium-glucose cotransporter 2 inhibitors for diabetes after solid organ transplantation. *Transplant International*, 34(8), 1341-1359. <https://doi.org/10.1111/tri.13883>
- Kanbay, M., Copur, S., **Demiray, A.**, Sag, A. A., Covic, A., Ortiz, A., & Tuttle, K. R. (2022). Fatty kidney: A possible future for chronic kidney disease research. *European Journal of Clinical Investigation*, 52(6), e13748-n/a. <https://doi.org/10.1111/eci.13748>
- Kanbay, M., Copur, S., **Demiray, A.**, & Tuttle, K. R. (2022). Cardiorenal metabolic consequences of nighttime snacking: Is it an innocent eating behavior? *Current Nutrition Reports*, 11(2), 347-353. <https://doi.org/10.1007/s13668-022-00403-6>
- Kanbay, M., **Demiray, A.**, Afsar, B., Covic, A., Tapoi, L., Ureche, C., & Ortiz, A. (2021). Role of klotho in the development of essential hypertension. *Hypertension (Dallas, Tex. 1979)*, 77(3), 740-750. <https://doi.org/10.1161/HYPERTENSIONAHA.120.16635>
- Kanbay, M., **Demiray, A.**, Afsar, B., Karakus, K. E., Ortiz, A., Hornum, M., Covic, A., Sarafidis, P., & Rossing, P. (2021). Sodium-glucose cotransporter 2 inhibitors for diabetes mellitus control after kidney transplantation: Review of the current evidence. *Nephrology (Carlton, Vic.)*, 26(12), 1007-1017. <https://doi.org/10.1111/nep.13941>
- Kanbay, M., Tapoi, L., Ureche, C., Tanriover, C., Cevik, E., **Demiray, A.**, Afsar, B., Cherney, D. Z. I., & Covic, A. (2022). Effect of sodium–glucose cotransporter 2 inhibitors on hemoglobin and hematocrit levels in type 2 diabetes: A systematic review and meta-analysis. *International Urology and Nephrology*, 54(4), 827-841. <https://doi.org/10.1007/s11255-021-02943-2>

## **POSTER & ABSTRACT PRESENTATIONS**

- Dural D, Cunedioglu BÖ, Yurtseven E, **Demiray A**, Gursay E, Aytakin S, Aytakin V. Association between lipoprotein (a) level and chronic cardio-renal syndrome in patients with coronary artery disease. Abstract presented at World Congress on Heart Failure 2021. June 29-July 1, 2021. <https://doi.org/10.1002/ejhf.2297>
- Dogan O, Atac N, Vatansever C, Albayrak O, Sahin OE, Kilicoglu BK, **Demiray A**, Ergönül Ö, Gönen M, Can F. Yersiniabactin as a promoter of mortality of infections caused by colistin-resistant Klebsiella pneumoniae ST101. Poster presented at 29<sup>th</sup> European Congress of Clinical Microbiology & Infectious Diseases (ECCMID). 13-16 April 2019.
- Demiray A**, Oztosun C, Acar S, Gursay T, Sakarya S, Ata B. The Usage of a Third-party Multiple-Choice Examination for the Assessment of Clinical Medical Education. Poster Presented at National Medical Education Congress 2022. 19-22 May 2022.