

# CURRICULUM VITAE

**Name - Surname :** Nuray SÖĞÜNMEZ ERDOĞAN

**Date of Birth :** 10/09/1985

**Place of Birth :** Karacabey-Bursa/TURKEY

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**Foreign Languages :** English (YDS : 91.25, Date : 09.09.2018)

**Major:**

Degree	Department/Program	University	Year
B.Sc.	Molecular Biology and Genetics	Boğazici University	2010
M.Sc.	Molecular Biology and Genetics	Boğazici University	2013
Ph.D.	Bioinformatics and Genetics	Kadir Has University	2020

**The Title of M.Sc. Thesis and The Name(s) of the Thesis Supervisor(s):**

Transgenic analysis of the zebrafish OR101-1 gene promoter

Supervisor: Assoc. Prof. Stefan H. FUSS

**The Title of Ph.D. Thesis and The Name(s) of the Thesis Supervisor(s) :**

Identification of distinct communication networks in human  $\beta$ 2 adrenergic receptor via molecular dynamics simulation

Supervisor: Prof. E. Demet AKTEN AKDOĞAN

**Academic Duties :**

Duty	Location	Year
Postdoctoral Researcher	Kadir Has University	March 2021 - July 2021
Instructor	Kadir Has University	July 2021 - Present

**Project Duties :**

BU - KU Leuven Visiting Student Project Grant: September 2011 – December 2011

Ph.D. Scholarship : TUBITAK BIDEB 2211/C, 2016- 2020

Postdoctoral Researcher : TUBITAK ARDEB 1001, Project Number: 119F125, April 2021 - July 2021

**Scientific Memberships :**

Molecular Biology Association - Turkey

**Undergraduate and Graduate Level Courses Given in the Last Two Years :**

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
2021	Fall	Origins and Consequences /Evolution	8		522
		Universal Values and Ethics /Biyoethics	4		168
	Spring	Path to the Nobel Prize: The Category of Physiology and Medicine	3		29
		The Philosophy of Behavioral Biology	3		30

**ACADEMIC WORKS****A. International Research Articles Published in Peer-reviewed Journals:**

**A1.** Distinctive Allosteric Communication Networks in Inactive States of  $\beta_2$  - Adrenergic Receptor: Mutual Information and Entropy Transfer Analysis; **Nuray Sogunmez**, E. Demet Akten; Proteins, November 2020, DOI: 10.1002/prot.25965

**A2.** Intrinsic Dynamics and Causality in Correlated Motions Unraveled in Two Distinct Inactive States of Human  $\beta_2$  -Adrenergic Receptor ( $\beta_2$ AR); **Nuray Sogunmez**, E. Demet Akten; J of Physical Chemistry B, April 2019, DOI: 10.1021/acs.jpcc.9b01202

**A3.** Relative Pelvic Version (RPV): An Individualized Pelvic Incidence-Based Proportional Parameter That Quantifies Pelvic Version More Precisely Than Pelvic Tilt; Caglar Yilgor, Yasemin Yavuz, **Nuray Sogunmez**, Sleiman Haddad, Anne F. Mannion, Kadir Abul, Louis Boissiere, Ibrahim Obeid, Frank Kleinstück, Francisco Javier Sanches Perez-Grueso, Emre Acaroglu, Ferran Pellise, Ahmet Alanay, The European Spine Study Group (ESSG); March 2018, The Spine Journal, DOI:10.1016/j.spinee.2018.03.001

**A4.** Relative Lumbar Lordosis And Lordosis Distribution Index: Individualized Pelvic Incidence–Based Proportional Parameters That Quantify Lumbar Lordosis More Precisely Than The Concept Of Pelvic Incidence Minus Lumbar Lordosis; Caglar Yilgor, **Nuray Sogunmez**, Yasemin Yavuz, Kadir Abul, Louis Boissiere, Sleiman Haddad, Ibrahim Obeid, Frank Kleinstueck, Francisco Javier Sanchez Perez Grueso, Emre Acaroğlu, Anne F. Mannion, Ferran Pellisé, Ahmet Alanay, European

Spine Study Group (ESSG); December 2017, Journal of Neurosurgery, 43(6):E5. DOI: 10.3171/2017.8.FOCUS17498.

**A5.** Global Alignment and Proportion (GAP) Score: Development and Validation of a New Method of Analyzing Spinopelvic Alignment to Predict Mechanical Complications After Adult Spinal Deformity Surgery, Caglar Yilgor, **Nuray Sogunmez**, Lois Boissiere, Yasemin Yavuz, Ibrahim Obeid, Frank S. Kleinstueck, Francisco Javier Sanchez Perez Grueso, Emre R. Acaroğlu, Sleiman Haddad, Anne F. Mannion, Ferran Pellisé, Ahmet Alanay, Essg European Spine Study Group (ESSG); October 2017; The Journal of Bone and Joint Surgery 99(19):1661- 1672; DOI.10.2106/JBJS.16.01594

## **B. Research Presented at International Scientific Meetings and Published in Proceedings Books:**

**B1.** Allosteric Communications in Inactive States of Human  $\beta$ 2 Adrenergic Receptor ( $\beta$ 2- AR), **Nuray Sogunmez**, E.Demet Akten

**B1.1.** The International Symposium on Health Informatics and Bioinformatics, (HIBIT) 2019, Izmir, Turkey (Oral Presentation) (Travel Award & Registraton Fee Waiver)

**B2.** Protein Allostery in Human  $\beta$ 2 Adrenergic Receptor and Information Transfer Between Residues, **Nuray Sogunmez**, E.Demet Akten

**B2.1.** 1st International Symposium on Graduate Research in Science 2018, Istanbul, Turkey (Poster Presentation)

**B3.** Relative Pelvic Version (RPV): A new PI-based Proportional Parameter that Quantifies Pelvic Version More Precisely Compared to PT; Caglar Yilgör, **Nuray Sogunmez**, Yasemin Yavuz, Sleiman Haddad, Ibrahim Obeid, Frank Kelinstueck, Francisco Javier Sanchez Perez Grueso, Emre R. Acaroğlu, Anne F. Mannion, Ferran Pellisé, Ahmet Alanay, European Spine Study Group (ESSG)

**B3.1.** 31st Turkish Neurosurgery Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B3.2.** 12th International Turkish Spine Association Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B3.3.** Eurospine Congress 2017, Dublin, Ireland (Quick Fire Presentation)

**B4.** Relative Lumbar Lordosis (RLL): A new PI-based Proportional Parameter that Quantifies Lumbar Lordosis More Precisely Compared to PI-LL Concept; Caglar Yilgör, **Nuray Sogunmez**, Yasemin Yavuz, Louis Boissiere, Ibrahim Obeid, Frank Kleinstueck, Francisco Javier Sanchez Perez Grueso, Emre R. Acaroğlu, Anne F. Mannion, Ferran Pellisé, Ahmet Alanay, Essg European Spine Study Group (ESSG)

**B4.1.** 31st Turkish Neurosurgery Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B4.2.** 12th International Turkish Spine Association Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B4.3.** North American Spine Society Congress, 2017, Orlando, Florida, USA (E-poster Presentation)

**B4.4.** Eurospine Congress 2017, Dublin, Ireland (E-poster Presentation)

**B5.** Relative Spinopelvic Alignment (RSA): A new PI-based Proportional Parameter that Quantifies Sagittal Alignment More Precisely Compared to SVA; Caglar Yilgor, **Nuray Sogunmez**, Yasemin Yavuz, Louis Boissiere, Ibrahim Obeid, Frank Kleinstueck, Francisco Javier Sanchez Perez Grueso, Emre R. Acaroğlu, Anne F. Mannion, Ferran Pellisé, Ahmet Alanay, European Spine Study Group (ESSG)

**B5.1.** 31st Turkish Neurosurgery Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B5.2.** 12th International Turkish Spine Association Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B5.3.** Eurospine Congress 2017, Dublin, Ireland (E-poster Presentation)

**B6.** Global Alignment and Proportion (GAP) Score: Development and Validation of a New Method of Analyzing Spinopelvic Alignment to Predict Mechanical Complications after Adult Spinal Deformity Surgery; Caglar Yilgor, **Nuray Sogunmez**, Yasemin Yavuz, Can Berk Aşaroğlu, İbrahim Obeid, Frank S. Kleinstueck, Francisco Javier Sanchez Perez Grueso, Emre R. Acaroğlu, Anne F. Mannion, Ferran Pellisé, Ahmet Alanay, European Spine Study Group (ESSG)

**B6.1.** 31st Turkish Neurosurgery Scientific Congress 2017, Antalya, Turkey (Oral Presentation) (Best Oral Presentation Award)

**B6.2.** 12th International Turkish Spine Association Scientific Congress 2017, Antalya, Turkey (Oral Presentation) (Best Oral Presentation Award)

**B6.3.** North American Spine Society Congress 2017, Orlando, Florida, USA (Oral Presentation)

**B6.4.** Eurospine Congress 2017, Dublin, Ireland (Quick-Fire Presentation)

**B6.5.** Scoliosis Research Society Congress 2017, Philadelphia, USA (E-poster Presentation)

**B6.6.** The International Society for the Study of the Lumbar Spine Congress 2017, Atina, Greece (Oral Presentation)

**B7.** Global Alignment and Proportion (GAP) Score Better Correlates to HRQoL Scores and Better Predicts Mechanical Complications Compared to SRS-Schwab Sagittal Modifiers; Caglar Yilgor, **Nuray Sogunmez**, Yasemin Yavuz, Berk Baris Özmen, İbrahim Obeid, Frank S. Kleinstueck, Francisco Javier Sanchez Perez Grueso, Emre R. Acaroğlu, Anne F. Mannion, Ferran Pellisé, Ahmet Alanay, European Spine Study Group (ESSG)

**B7.1.** 31st Turkish Neurosurgery Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B7.2.** 12th International Turkish Spine Association Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B7.3.** North American Spine Society Congress 2017, Orlando, Florida, USA (Oral Presentation)

**B7.4.** Eurospine Congress 2017, Dublin, Ireland (Oral Presentation)

**B7.5.** International Meeting on Advanced Spine Techniques Congress 2017, Cape Town, South Africa (Oral Presentation)

**B8.** The Appropriate Sagittal Plane Correction to Individualized Proportionate Shape and Alignment Does Not Necessarily Mean More Complex Surgery in Adult Spinal Deformity; Caglar Yilgor, **Nuray Sogunmez**, Yasemin Yavuz, İbrahim Obeid, Frank S. Kleinstueck, Francisco Javier Sanchez Perez Grueso, Emre R. Acaroğlu, Anne F. Mannion, Ferran Pellisé, Ahmet Alanay, European Spine Study Group (ESSG)

**B8.1.** 12th International Turkish Spine Association Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B8.2.** Eurospine Congress 2017, Dublin, Ireland (Oral Presentation)

**B9.** The Appropriate Sagittal Plane Correction to Individualized Proportionate Shape and Alignment Does Not Necessarily Mean More Complex Surgery in Adult Spinal Deformity; Caglar Yilgor, **Nuray Sogunmez**, Yasemin Yavuz, İbrahim Obeid, Frank S. Kleinstueck, Francisco Javier Sanchez Perez Grueso, Emre R. Acaroğlu, Anne F. Mannion, Ferran Pellisé, Ahmet Alanay, European Spine Study Group (ESSG)

**B9.1.** 12th International Turkish Spine Association Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B9.2.** Eurospine Congress 2017, Dublin, Ireland (Oral Presentation)

**B10.** Failure to Validate the Age-Adjusted Alignment Thresholds Concept in an Adult Spinal Deformity Database; Caglar Yilgor, **Nuray Sogunmez**, Yasemin Yavuz, İbrahim Obeid, Frank S. Kleinstueck, Francisco Javier Sanchez Perez Grueso, Emre R. Acaroğlu, Anne F. Mannion, Ferran Pellisé, Ahmet Alanay, European Spine Study Group (ESSG)

**B10.1.** 12th International Turkish Spine Association Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B10.2.** Eurospine Congress 2017, Dublin, Ireland (Quick-Fire Presentation)

**B10.3.** International Meeting on Advanced Spine Techniques Congress 2017, Cape Town, South Africa (Whitecloud Award Nominee) (Oral Presentation)

**B11.** Sagittal Realignment Goals Should Be Set to Ideal Proportionate Shape and Alignment Independent of Age; Caglar Yilgor, **Nuray Sogunmez**, Yasemin Yavuz, İbrahim Obeid, Frank S. Kleinstueck, Francisco Javier Sanchez Perez Grueso, Emre R. Acaroğlu, Anne F. Mannion, Ferran Pellisé, Ahmet Alanay, European Spine Study Group (ESSG)

**B11.1.** 12th International Turkish Spine Association Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B11.2.** Eurospine Congress 2017, Dublin, Ireland (Oral Presentation)

**B11.3.** Scoliosis Research Society Congress 2017, Philadelphia, USA (Oral Presentation)

**B12.** Safety and Efficacy of Concurrent Spinal Deformity and Intra-Dural Surgery: Case Series; Caglar Yilgor, **Nuray Sogunmez**, Mohamed Dalla, Gülden Demirci Otluoğlu, Murat Başarır, Ahmet Alanay, Memet Özek

**B12.1.** 31st Turkish Neurosurgery Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B12.2.** 12th International Turkish Spine Association Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B12.3.** Eurospine Congress 2017, Dublin, Ireland (E-poster Presentation)

**B13.** Use of a Tailored Multimodal Recovery Pathway Accelerates Inpatient Recovery; Caglar Yilgor, **Nuray Sogunmez**, Peri Kindan, Binnaz Ay, Ahmet Alanay

**B13.1.** 12th International Turkish Spine Association Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B13.2.** Eurospine Congress 2017, Dublin, Ireland (E-poster Presentation)

**B14.** Non-fusion Growth Modulation with Anterior Vertebral Body Tethering (VBT) for Adolescent Idiopathic Scoliosis; Barbaros Ömer Cebeci, Gökhan Ergene, **Nuray Sogunmez**, Binnaz Ay, Caglar Yilgor, Ahmet Alanay

**B14.1.** 31st Turkish Neurosurgery Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B14.2.** 12th International Turkish Spine Association Scientific Congress 2017, Antalya, Turkey (Oral Presentation)

**B14.3.** Eurospine Congress 2017, Dublin, Ireland (Oral Presentation)

**B14.4.** North American Spine Society Congress 2017, Orlando, Florida, USA (Oral Presentation)

**B14.5.** The International Scientific Society on Scoliosis Orthopaedic and Rehabilitation Treatment 2017, Lyon, France (Oral Presentation)

**B15.** Critical Age Treshold(s) for Surgical Complexity and Complication Rates in Adult Idiopathic Scoliosis, Caglar Yilgor, **Nuray Sogunmez**, Erdal Cosgun, İbrahim Obeid, Frank S. Kleinstueck, Francisco Javier Sanchez Perez Grueso, Emre R. Acaroğlu, Anne F. Mannion, Ferran Pellisé, Ahmet Alanay, European Spine Study Group (ESSG)

**B15.1.** Eurospine 2016, Berlin, Germany (E-poster Presentation)

**B16.** Global Alignment and Proportion (GAP) Score Predicts Mechanical Failure in Adult Spinal Deformity Surgery, Caglar Yilgor, **Nuray Sogunmez**, Erdal Cosgun, İbrahim Obeid, Frank S. Kleinstueck, Francisco Javier Sanchez Perez Grueso, Emre R. Acaroğlu, Anne F. Mannion, Ferran Pellisé, Ahmet Alanay, European Spine Study Group (ESSG)

**B16.1.** Eurospine 2016, Berlin, Germany (E-poster Presentation)

**B17.** Which Factors Influence Surgery vs. Non-Surgery Decision for AIS Patients with Borderline (40o - 55o) Main Thoracic Curves? Caglar Yilgor, **Nuray Sogunmez**, Erdal Cosgun, İbrahim Obeid, Frank S. Kleinstueck, Francisco Javier Sanchez Perez Grueso, Emre R. Acaroğlu, Anne F. Mannion, Ferran Pellisé, Ahmet Alanay, European Spine Study Group (ESSG)

**B17.1.** Eurospine 2016, Berlin, Germany (E-poster Presentation)

**B18.** Class-specific regulation of a zebrafish olfactory receptor gene, *Stefan H. Fuss, Xalid Bayramli, Nuray Sogunmez*

**B18.1.** 35th Annual Meeting of AChemS 2013, Huntington Beach, California (Poster Presentation)

#### **C. National Research Articles Published in Peer-reviewed Journals:**

**C1.** Diagnosis and Treatment of Congenital Scoliosis; Caglar Yilgor, İrem N. Eroglu, **Nuray Sogunmez**, Kadir Abul, Ahmet Alanay; Acibadem Universitesi Saglık Bilimleri Dergisi, April 2019, DOI: 10.31067/0.2019.137

#### **D. Other Publications:**

**D1.** Anterior Vertebral Body Tethering: A Promising Non-Fusion Scoliosis Treatment; Ahmet Alanay, Caglar Yilgor, Gokhan Ergene, **Nuray Sogunmez**, Barbaros Omer Cebeci; Spinal Surgery News, Spring 2017.