Curriculum Vitae B. DUYGU ÖZPOLAT

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EDUCATION

Ph.D. Dec. 2010 Department of Cell and Molecular Biology, Tulane University, New Orleans, LA, USA Advisor: Ken Muneoka
 B.Sc. May 2004 Department of Biology, Middle East Technical University, Ankara, Turkey

 Ranked 3rd among the graduating seniors of the class

ACADEMIC POSITIONS

Jul. 2017 – (Current) Marine Biological Laboratory, Woods Hole, MA, USA

- Hibbitt Fellow, Principal Investigator

Sep. 2014 – Dec. 2016 Institut Jacques Monod, Université Paris 7 Diderot, Paris, France

Advisors: Guillaume Balavoine, Michel Vervoort
- "LABEX Who Am I" Post-doctoral Fellow

Dec. 2013 - Sep. 2014 Department of Biology, University of Maryland, College Park, MD, USA

and Advisor: Alexa Bely

Jan. 2011 – Apr. 2013 - Post-doctoral Fellow

PUBLICATIONS

Research Articles

(in preparation) Kelley E., Özpolat B.D. vasa knock down via electroporating morpholinos disrupt tail regeneration in the juvenile *Platynereis dumerilii*.

(*in press*) Kuehn E., Clausen D., Null R.W., Metzger B., Willis A., **Özpolat B.D.** Segment number threshold determines juvenile onset of germline cluster proliferation in *Platynereis dumerilii* (2021) *JEZ-B*

Torres J.P., Lin Z., Watkins M., Salcedo P.F., Baskin R.P., Elhabian S., Safavi-Hemami H., Tun J., Saguil N., Fang Y., Urdaneta R.F., Özpolat B.D., Olivera B.M., Schmid E.W. Small molecule mimicry hunting strategy in the imperial cone snail, *Conus imperialis*. (2021) Science Advances. 12 Mar 2021: Vol. 7, no. 11

Kuehn E., Stockinger A., Girard J., Raible F., Özpolat B.D. A scalable culturing system for the marine annelid *Platynereis dumerilii*. *PLoS One* (2019) *Dec 5;14(12):e0226156*

Özpolat B.D., Handberg-Thorsager M., Vervoort M., Balavoine G. Cell lineage and cell cycling analyses of the 4d micromere using live-imaging in the marine annelid *Platynereis dumerilii*. *eLife* (2017) 2017;6:e30463 *BDÖ Corresponding Author

Özpolat B.D., Sloane E., Zattara E.E., Bely A.E. Plasticity and regeneration of gonads in the annelid *Pristina leidyi*. *EvoDevo* (2016) 7:22 *BDÖ Corresponding Author

Özpolat B.D., Bely A.E. Gonad establishment during asexual reproduction in the annelid *Pristina leidyi*. *Developmental Biology*. *Sep 1; 405(1):123-36. (2015)* *BDÖ Corresponding Author

Özpolat B.D., Zapata M., Frugé J.D., Coote J., Lee J., Muneoka K., Anderson R. Regeneration of the elbow joint in the developing chick embryo recapitulates development. *Developmental Biology*. 372(2):229-38. (2012)

Tran U., Pickney L.M., Özpolat B.D., Wessely O. *Xenopus* Bicaudal-C is required for the differentiation of the amphibian pronephros. *Developmental Biology*. 307(1):152-64. (2007)

Reviews, Book Chapters, and Books

(in preparation) MacCord K. and Özpolat B.D. Genome Editing and The Germline. University of Chicago Press (Book).

Özpolat B.D., Randel N., Williams E.A., Bezares-Calderón L.A., Andreatta G., Balavoine G., Bertucci P., Ferrier D., Gambi M.C., Gazave E., Handberg-Thorsager M., Hardege J., Hird C., Hsieh Y., Hui J., Mutemi K.N., Schneider S.Q., Simakov O., Vergara H., Vervoort M., Jékely G., Tessmar-Raible K., Raible F., Arendt D. The nereid on the rise: *Platynereis* as a model system. *EvoDevo* 12, 10 (2021).

MacCord K. and **Özpolat B.D.** Is the germ line immortal and continuous? Preprint on Zenodo. 10.5281/zenodo.3385322 (Preprint - Review)

Zattara E.E., Özpolat B.D. Quantifying cell proliferation during regeneration of aquatic worms. Developmental Biology of the Sea Urchin and Other Marine Invertebrates. **Methods in Molecular Biology, vol 2219.** Eds: David Carroll, Stephen Stricker. (2020) (Book Chapter)

Özpolat B.D., Bely A.E. Developmental and molecular biology of annelid regeneration: a comparative review of recent studies. *Current Opinion in Genetics and Development*. *Volume 40. Pages 144-153. (2016)* (Review)

Özpolat B.D., Gökçümen Ö. Humans and philosophy under the light of evolution (Evrimin Işığında İnsan ve Düşün). *Cogito YKY* (60-61). (2009) (Book Chapter, in Turkish)

Ph.D. Dissertation

Özpolat B.D. Development and regeneration of the elbow joint in the chicken embryo. (December 2010)

FUNDING

Current

Jun. 2020 (GRANT - \$2,869,690 (direct: \$2,057,974 , indirect: \$811,716)) NIH NIGMS MIRA

1R35GM138008-01: "Cellular and Molecular Mechanisms of Germline Regeneration"

(Impact score: 10) PI: B. Duygu Özpolat

Sept. 2019	(<i>GRANT</i> – \$286,683 (direct: \$172,701, indirect: \$113,982)) NSF-EDGE, Award no 1923429 . "EDGE CT: Catalyzing regeneration research by developing functional tools for post-embryonic stages" Lead-PI: Alexa Bely (UMD). Co-PIs: B. Duygu Özpolat , Elaine Seaver (Whitney Labs)
Jun. 2019	(GRANT – \$20,000) University of Chicago Microbiome Center Seed Grant. Lead-PI: B. Duygu Özpolat . Co-PIs: Jessica Mark Welch (MBL), A. Murat Eren (UChicago).
July. 2017	(STARTUP – \$625,000) Hibbitt Fellowship Startup Funds (5 years). Pl: B. Duygu Özpolat
<u>Completed</u>	
Oct. 2019	(GRANT - \$8,000) Dovetail Genomics LLC. Tree of Life Grant. Sequencing Platynereis dumerilii genome. PI: B. Duygu Özpolat
Apr. 2010	(GRANT) European Society for Evolutionary Biology, Outreach Fund Project: "Bringing the Understanding of Evolution to Turkish Primary Schools" B. Duygu Özpolat and Erol Akçay, representing Hard-workers for Evolution

FELLOWSHIPS AND AWARDS

Jun. 2018	(TRAVEL AWARD) eLife travel award to B. Duygu Özpolat for participating the SDB 2018 annual meeting in Portland, OR, USA.
Jan. 2015	(TRAVEL FELLOWSHIP) Company of Biologists, Development Project: "Developing a transgenic cell cycle reporter for exploring stem cell biology in the marine annelid <i>Platynereis dumerilii</i> "
Jan. 2014	(AWARD) Ralph and Mildred Buchsbaum Prize for Excellence in Photomicrography 2014, the American Microscopical Society Awarded to Ezgi Kunttas-Tatli and B. Duygu Özpolat - Published in Invertebrate Biology 133(1): 108–109
Oct. 2013	(TRAVEL AWARD) The American Microscopical Society, for participating to the Society for Integrative and Comparative Biology annual meeting, Austin, TX, USA
Aug. 2013	(RESEARCH FELLOWSHIP) Embryology post-course independent research fellowship, Marine Biological Laboratory, Woods Hole, MA, USA Project: "Investigation of Gonad Maintenance and Architecture in Arthropod and Annelid Species"
Jun. 2013	(SCHOLARSHIP AWARD) For participating the Embryology Course at the Marine Biological Laboratory, Woods Hole, MA, USA
Feb. 2009	(AWARD) The Senior Vice President's Award for Excellence in Research and Presentation, 20th Annual Tulane University Health Sciences Research Days
Jun. 2004	Ranked 3 rd among all the graduating seniors of the department. Middle East Technical University, Ankara, Turkey
Jul. 2003	(RESEARCH FELLOWSHIP) Summer Internship Fellowship by the International Association for the Exchange of Students for Technical Experience (IAESTE) for Research at German Institute of Human Nutrition (DIFE), Potsdam, Germany

Jun. 1999 Salutatorian (Ranked 2nd among all the graduating seniors). Antalya High School, Antalya, Turkey

INVITED TALKS

Dec. 2021	2 nd Platynereis Conference (virtual)
Nov. 2021	Seminar Series, Hopkins Marine Station, Stanford University (virtual)
Oct. 2021	Frontiers in Stem Cells & Regeneration (SCARE) Course, MBL, Woods Hole
Oct. 2021	Department of Integrative Biology, Michigan State University (virtual)
Oct. 2021	Friday Seminar Series, Gettysburg College, PA (virtual)
Jul. 2021	Embryology Course, MBL, Woods Hole
Apr. 2021	University of California Merced, CA, MCB Seminar (virtual)
Mar. 2021	Washington University in St. Louis, Biology Department Seminar (virtual)
Mar. 2021	Evo Devo Seminars, GönomiX at University of Göttingen (virtual)
Oct. 2020	1 st Platynereis Conference (virtual)
Sep. 2020	Online Seminar Series, Ecology and Evolutionary Biology Society of Turkey
Jun. 2020	(Postponed due to COVID-19) Research Seminar Series, Sars Centre for Marine Molecular Biology, Bergen, Norway
Jan. 2020	Conversation Series at Center for Biology and Society, Arizona State University, AZ, USA
Nov. 2019	NSF Spiralian White Paper Workshop, Whitney Laboratories, Jacksonville, FL, USA
Sep. 2019	Keynote Speaker , James E Stowers Memorial Lecture, Young Investigator Science Retreat (YISR), Stowers Institute for Medical Research, Kansas City, MO, USA
Apr. 2019	Society for Developmental Biology Meeting, Regional North-East, Woods Hole, MA, USA
Apr. 2019	Science Before Supper seminar, Falmouth Public Library, Falmouth, MA, USA
Jan. 2019	Fifth International Oocyte Meeting, Villefranche-sur-mer, France
Dec. 2018	ASCB/EMBO Meeting, Subgroup: Emerging Model Systems. San Diego, CA, USA
Oct. 2018	9 th Aquatic Models of Human Disease Meeting, Woods Hole, MA, USA
Sep. 2018	Maria Mitchell Foundation, Science Speaker Series, Nantucket, MA, USA
Jul. 2018	Society for Developmental Biology Annual Meeting, Portland, OR, USA
Jun. 2018	Logan Science Journalism Program, Woods Hole, MA, USA
Apr. 2018	Biology Department Seminars, Clark University, Worcester, MA, USA
Feb. 2018	Cell Biology Seminar, UCONN School of Medicine, Farmington, CT, USA
Dec. 2017	ASCB/EMBO Meeting. Subgroup: Cell cycle regulation of morphogenetic behavior, Philadelphia, PA, USA
Jul. 2017	Marine Biological Laboratory Council, Woods Hole, MA, USA
Mar. 2014	Evening Evolution Group Seminar, Department of Biology, New York University, New York, NY, USA

CONFERENCES

Talks (from submitted abstracts, presenter underlined)

Apr. 2021 Özpolat B.D. Germ cell regeneration in Annelids. - International Society for Regenerative Biology Launch Meeting (virtual) Apr. 2021 Kelley E. and Özpolat B.D. Electroporation as a method for large molecule delivery during regeneration in the juvenile Platynereis dumerilii. - New Model Organism Consortium Seminar Series (virtual). Oct. 2020 Kelley E. and Özpolat B.D. Electroporation as a method for large molecule delivery during regeneration in the juvenile Platynereis dumerilii. - 1st Platynereis Conference (virtual). Oct. 2019 MacCord K. and Özpolat B.D. Germ Line Regeneration in Metazoans. - PhilinBioMed, Bordeaux, France. Jul. 2019 MacCord K. and Özpolat B.D. Germ Line Regeneration in Metazoans. - International Society for the History, Philosophy, and Social Studies of Biology (ISH) Biennial Meeting 2019, Oslo, Norway. Dec. 2017 Özpolat B.D., Handberg-Thorsager M., Vervoort M., Balavoine G. Identifying the embryonic origins and cell cycling behavior of mesodermal stem cells using live-imaging in a marine annelid. - ASCB/EMBO Meeting, Philadelphia, PA, USA Nov. 2015 Özpolat B.D., Handberg-Thorsager M., Vervoort M., Balavoine G. Developing the cell cycle indicator FUCCI for live-imaging analysis of putative stem cells during post-embryonic development in the segmented worm *Platynereis dumerilii*. - Labex Retreat, 2015, Deauville, France Özpolat B.D., Borovikov A., Zattara E.E., Bely A. Development and evolution of the Jan. 2014 enigmatic lateral line of clitellate annelids. - Society for Integrative and Comparative Biology Annual Meeting 2014, Austin, TX, USA Özpolat B.D. Segmented worms as a model of evo-devo. Sep. 2013 - Mathematical Evolution Workshop. Şirince, İzmir, Turkey Dec. 2012 Özpolat B.D., and Bely A. piwi expression in germline and regeneration in the annelid Pristina leidyi. - OIST Winter Course: Evolution of Complex Structures. Okinawa Institute of Science and Technology, Onna-son, Okinawa, Japan Özpolat B.D., Zattara E., Bely A. piwi expression in germline and regeneration in the Jan. 2012 annelid Pristina leidyi. - Society for Integrative and Comparative Biology Annual Meeting 2012, Charleston, SC, USA Apr. 2007 Özpolat B.D., Tran U., Wessely O. Wnt/ß-catenin Signaling Regulates Mesenchymal-Epithelial Transition in *Xenopus* Pronephric Kidney. - Louisiana State U. Health Sciences Center Research Day, New Orleans, LA

<u>Selected Posters (presenter underlined)</u>

Jul. 2021 Metzger B.M., Null R.W., Özpolat B.D. A multiplexed gene expression analysis during gametogenesis in the marine annelid Platynereis dumerilii. - Society for Developmental Biology 80th Annual Meeting (Virtual) Apr. 2021 Kwiatkowski A., Kelley E., Özpolat B.D. Investigating the Effects of Electroporation with Morpholinos on *Platynereis dumerilli* Regeneration using Image Analysis - CAURS 2021 (Chicago Area Undergraduate Research Symposium) Aug. 2020 Kwiatkowski A., Kelley E., Özpolat B.D. Investigating the Effects of Electroporation with Morpholinos on *Platynereis dumerilli* Regeneration using Image Analysis - Jeff Metcalf SURF Summer Student Symposium Jul. 2020 Kuehn E., Null R.W., Özpolat B.D. Germline development is dependent on segment number and not the chronological age in the marine annelid *Platynereis dumerilii* - Society for Developmental Biology 79th Annual Meeting (Virtual due to COVID-19). Dec. 2019 Kelley E., Özpolat B.D. Electroporation as a post-embryonic delivery tool for uncovering mechanisms of annelid regeneration. - ASCB/EMBO Annual Meeting 2019, Washington D.C., USA Kelley E., Özpolat B.D. Electroporation as a post-embryonic delivery tool for uncovering Jul. 2019 mechanisms of annelid regeneration. - Society for Developmental Biology Annual Meeting 2019, Boston, MA, USA Jul. 2019 Kuehn E., Stockinger A., Girard J., Raible F., Özpolat B.D. A scalable culture setup for the marine annelid Platynereis dumerilii. - Society for Developmental Biology Annual Meeting 2019, Boston, MA, USA Oct. 2018 Kuehn E., Girard J., Özpolat B.D. A scalable culture setup for the marine annelid Platynereis dumerilii (Best poster award)

COURSES/WORKSHOPS ATTENDED

Nov. 2020	$\hbox{-} \textbf{\it Diversifying your applicant pool.} \label{thm:continuous} \ \ \text{\it Training by University of Chicago Human Resources}.$
May 2019	- Uncovering the Logic of Regeneration across Complex Living Systems. McDonnell Initiative MBL-ASU History of Biology Summer Seminar, MBL, Woods Hole, MA, USA
Mar. 2019	- Workshop on New Genetic Tools for Non-Model Organisms, Janelia HHMI Research Campus, Ashburn, VA, USA
Nov. 2018	- Workshop on Enabling Biological Discovery through Innovations in Imaging and Computation , MBL, Woods Hole, MA, USA
Oct. 2018	- Workshop on Regeneration Across Complex Living Systems: From Regenerating Microbiomes to Ecosystems Resiliency, McDonnell History and Philosophy of Science Program at MBL, Woods Hole, MA, USA
Apr. 2018	- Regeneration Workshop , McDonnell History and Philosophy of Science Program at MBL, Woods Hole, MA, USA

- Aquatic Models of Human Disease, Woods Hole, MA

Jun. 2015	- Project Management : The Basics for Success, online non-credit course, University of California, Irvin
JunJul. 2013	- Embryology Course, Marine Biological Laboratory, Woods Hole, MA, USA
Dec. 2012	- \mbox{OIST} Winter Course of Evolution of Complex Systems (OWECS), $\mbox{Onna-son}$, $\mbox{Okinawa}$, \mbox{Japan}
Aug. 2012	- Leica Cell Imaging Workshop, University of Maryland, MD, USA
Apr. 2011	- Innovations in Teaching and Learning Conference, University of Maryland, College Park, MD, USA
Nov. 2010	- Concepts and Model Organisms in Regenerative Biology , Society for Developmental Biology, Santiago, Chile

TEACHING AND MENTORING (under-represented minorities and women in **bold**)

Post-docs

Sep. 2021 – present Rannyele Passos Ribeiro Starting in October 2021 - Sterling "Blake" CT Martin

Research assistants

Sep. 2021 – present	Jamie MacKinnon, Research Assistant
Aug. 2020 – present	Bria Metzger, Research Assistant
Nov. 2018 – present	Emeline Kelley, Research Assistant
May 2021 – Sep. 2021	Rebecca Bachtel, Research Assistant
Oct. 2020 – May 2021	Anna Byczynski, Research Assistant
Jan. 2018 – Aug.2020	Emily Kuehn, Research Assistant

Research fellows

Summer 2018 **Beatrice Steinert**, McDonnell Fellow

Graduate student research supervision

Mar. – Sep. 2014 Daniel P. Keil - Alexa Bely's Laboratory, University of Maryland

Undergraduate student research supervision

Jun. 2020 – Aug.2020	Adrian Kwiatkowski (University of Chicago, MBL)
Jun. 2014 – Sep. 2014	Lalithasri Ramasubramanian (University of Maryland)
Jun. 2014 – Sep. 2014	Alex Meehan (University of Maryland)
Feb. 2014 – Jun. 2014	Thomas Chang (University of Maryland)
Jun. 2012 – Apr. 2013	Kathleen McGrew (University of Maryland)
Jun. 2012 – Aug. 2012	Einas Ahmed (University of Maryland)
Jan. 2011 – Apr. 2013	Anastasia Borovikov (University of Maryland)
Jan. 2011 – Apr. 2013	Emily Sloane (University of Maryland)
Sep. 2011 – Dec. 2012	Claire Posey (University of Maryland)
Jan. 2011 – Jun. 2012	Salena Jacobs (University of Maryland)
Jan. 2013 – Apr. 2013	Ayana Langston (University of Maryland)
Jan. 2009 – Jan. 2010	Chris Rubadue (Tulane University)

High school student research supervision

Fall 2019 Samuel Thrasher (Falmouth Academy)
Fall 2018 Fairooz Naziba (Falmouth Academy)

Teaching Experience

Summer 2021 Invited Instructor, Embryology Course, Marine Biological Laboratory

Fall 2019 (3 weeks) Mentor, undergraduate research project at Özpolat Lab, 3 students (2 minority,

2 women), Biodiversity and Genomics. University of Chicago course taught at

MBL, Woods Hole, MA

Jul. 2019 Instructor, Children's Science School, Embryology course, Annelid regeneration

class. Woods Hole, MA, USA

Fall 2017 (1 day) Instructor, University of Chicago Freshmen Pre-Orientation "Tiny Zoo" Lab

Exercise at MBL

Spring 2015 (1 day) Instructor, Demonstration of *Platynereis* injections for "Developmental Biology"

module

- Instructor: Pierre Kerner, Université Paris 7 Diderot

Spring 2014 (1 day) Instructor, Demonstration of *Platynereis* injections for "Developmental Biology"

module

- Instructor: Pierre Kerner, Université Paris 7 Diderot

Fall 2015 Mentor, Master's student research proposal writing, M1 Magistère de

Génétique, Tutorat module "Projet de recherche"

- Instructors: Jonathan Weitzman and Isabelle Caillé, Université Paris 7 Diderot

Spring 2009 Teaching Assistant, Molecular Biology Laboratory. CELL 312/712

- Instructor: Nancy Hopkins, Tulane University

Spring 2009 **Teaching Assistant**, General Biology. CELL 101

- Instructor: Meenakshi Vijayaraghavan, Tulane University

SERVICE and OUTREACH

Reviewing Activities

Article reviewing:

Developmental Cell Developmental Biology BMC Evolutionary Biology

Journal of Invertebrate Reproduction and Development

Regeneration BMC Biology Genes, MDPI PNAS

Organisms, Diversity, Evolution

Nature Communications

Grant reviewing:

NIH – NIGMS, Dev1 (ad hoc reviewer) Graduate Women in Science

Abstract reviewing:

Ecology and Evolutionary Biology Symposium in Turkey (EEBST)

WOINSHOD/ EVELLE OF SALITZING	ent Organizing	Workshop
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2021 - present	Member , International Society for Regenerative Biologys(ISRB) Webinar Advisory Board
2021 - present	Organizer, Platynereis Community Meetings and Working Groups
2020 - present	Founder, organizer, Spiraliabase Virtual Lab Meetings
2020	Organizer, 1 st Platynereis Conference
2019	Organizer, Round table discussion for "Developing approaches for testing gene
	function in post-embryonic stages" ASCB/EMBO, Washington D.C.
2019	Organizer, Aivia Image Analysis Training Workshop, MBL, Woods Hole, MA
2018	Founder, organizer, Embryo Journal Club at MBL, Woods Hole, MA
<u>Outreach</u>	
Aug. 2021	Presenter, Tabletop Tidepool outreach, MBL, Woods Hole, MA
Mar. 2021	March Madness, Marine Biological Laboratory
Nov. 2020	Zoom discussion with high school students. Women in Science and Engineering (WiSE) Club, Falmouth Academy, Falmouth, MA, USA
Nov. 2020	Art Lab Podcast guest, interview on regeneration and science art.
May 2019	National Public Radio interview on regeneration, mental health in academia, and science art. WCAI Living Lab radio program.
Mar. 2019	Lunch/discussion with high school students. Women in Science and Engineering (WiSE) Club, Falmouth Academy, Falmouth, MA, USA
Fall 2018	High school science project on sea urchin fertilization. Falmouth Academy, MA, USA. Co-mentor with Alison Ament. Student: Fairooz Naziba
Jul. 2018	Panelist, "How to use social media to promote and share your science", Shaping and Understanding Career Choices in Education, Science and Self (SUCCESS) at the MBL, Woods Hole, MA, USA
Apr. 2018	Presenter , MBL Council "Sea urchin fertilization" Demo for the Imaging Initiative. Boston, MA, USA
Apr. 2012	Instructor, The Evolution Trail, Society for Developmental Biology booth, USA Science and Engineering Festival. Washington D.C., USA
2007 – 2011	Project Manager and editor-in-chief, Hard-workers for Evolution Project: Translation of University of California Berkeley's "Understanding Evolution" website into Turkish for public education, involving more than 100 volunteers living all around the world.

<u>Selected Science-Art Exhibition and Activities</u>

Apr. 2021 Featured Artist, Art the Science Blog Interview

JunJul. 2019	Artist, Summer Juried Show, Falmouth Art Center, Falmouth, MA, USA
Oct. 2019	Panelist , Science Art Panel, "Nature, divine – preserving ecology through color", MBL, Woods Hole, MA, USA.
Apr. 2019	Featured in the article "Art-Science Collaborations: What are they good for?" by Kira Heikes on www.ascb.org
Jun. 2018	Thru the Lens of Time - Photography Exhibit at MBL featuring Özpolat
May 2018	Science-themed artwork featured in the Science Art issue of $\mu\text{Chicago}$ Magazine published by University of Chicago
Apr. 2018	Science-themed artwork in the "Drawings and Sketches" Exhibition at Falmouth Art Center, Falmouth, MA, USA
Aug. 2016	Science-themed artwork featured in SciArt Magazine

SOCIETY MEMBERSHIPS

American Society for Cell Biology
Society for Developmental Biology
Society for Integrative and Comparative Biology
Ecology and Evolutionary Biology Society of Turkey
Philosophy in Biology and Medicine (Scientific Committee Member)
MBL Society
International Society for Regenerative Biology