

## **Asst. Prof. Terje Marken STEINUM**

### **Personal Information**

**Email:** [terje.steinum@istanbul.edu.tr](mailto:terje.steinum@istanbul.edu.tr)

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: AAE-1179-2020

Yoksis Researcher ID: 217122

### **Education Information**

Doctorate, Universitetet İ Oslo (University Of Oslo), Norwegian School Of Veterinary Science, Norway 2005 - 2010

Undergraduate, Universitetet İ Oslo (University Of Oslo), Historical-Philosophical Institute, Department For Art History And Archaeology, Norway 2001 - 2002

Postgraduate, Universitetet İ Oslo (University Of Oslo), Biological Institute, Faculty Of Mathematics And Natural Sciences, Department For General Genetics, Norway 1994 - 1996

### **Foreign Languages**

English, C2 Mastery

Norwegian, C2 Mastery

German, B1 Intermediate

### **Dissertations**

Doctorate, Microbial studies related to proliferative gill diseases in Atlantic salmon, The Norwegian School Of Veterinary Science, Xx, Xx, 2010

Postgraduate, Characterization of a genomic clone and the expression pattern of B12D, a transcript expressed in the aleurone and the embryo of developing barley (*Hordeum vulgare* L.) seeds." , Oslo University, Biological Institute, Faculty Of Mathematics And Natural Sciences, Department For General Genetics, 1996

### **Research Areas**

Life Sciences, Bioinformatics, Microbiology, Molecular Biology and Genetics, Microbial Genetics

### **Academic Titles / Tasks**

Assistant Professor, Istanbul University, Faculty of Science, Moleküler Biyoloji ve Genetik Bölümü, 2018 - Continues

Assistant Professor, Istanbul University, Faculty of Science, Moleküler Biyoloji ve Genetik Bölümü, 2014 - 2018

Researcher, Norwegian University of Life Sciences, 2012 - 2014

Student, Norwegian College of Veterinary Medicine, 2005 - 2010

Researcher, Norwegian College of Veterinary Medicine, 2004 - 2005

Research Assistant, Universitetet i Oslo, Norwegian School Of Veterinary Medicine, Xx, 2004 - 2004  
Other, Norges Veterinaerhoegskole (Norwegian College Of Veterinary Medicine), Norwegian Veterinary Institute ,  
Bacteriology And Production Animals, 2002 - 2004  
Translator, Tandberg patent office, 2002 - 2002  
Researcher, Norwegian College of Veterinary Medicine, 1997 - 2002  
Student, University of Oslo, 1996 - 1997

## Courses

Paradigms in Host-pathogen interactions, Postgraduate, 2020 - 2021, 2019 - 2020  
Introduction to Cell Biology, Undergraduate, 2019 - 2020  
Scientific writing techniques, Undergraduate, 2020 - 2021, 2019 - 2020  
Seminar, Postgraduate, 2019 - 2020  
Resistance in Bacterial pathogens, Postgraduate, 2020 - 2021, 2019 - 2020  
Bitirme projesi II, Undergraduate, 2019 - 2020  
Bitirme projesi I, Undergraduate, 2020 - 2021, 2019 - 2020

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The microbiomes of five temperate soft corals declining in the Sea of Marmara**  
Steinum T. M., Turgay E., Topçu Eryalçın N. E., Yardımcı R. E., Karataş Steinum S.  
Marine Biodiversity, vol.54, pp.1-15, 2024 (SCI-Expanded)
- II. **Isolation, Identification, and Pathogenicity of *Vibrio gigantis* Retrieved from European Seabass (*Dicentrarchus labrax*) Farmed in Türkiye**  
YILMAZ S., Karataş S., STEINUM T. M., GÜRKAN M., Yılmaz D. K., Abdel-Latif H. M. R.  
Animals, vol.13, no.22, 2023 (SCI-Expanded)
- III. **Mucosal bacteriomes of rainbow trout (*Oncorhynchus mykiss*) intestines are modified in response to dietary phytase**  
Karataş S., TURGAY E., YILDIZ M., Kaiza V. E., YARDIMCI R. E., STEINUM T. M.  
AQUACULTURE, vol.574, 2023 (SCI-Expanded)
- IV. **Tenacibaculum maritimum CRISPR loci analysis and evaluation of isolate spoligotyping**  
Steinum T. M., Turgay E., Yardımcı R. E., Småge S. B., Karataş S.  
JOURNAL OF APPLIED MICROBIOLOGY, vol.131, no.4, pp.1848-1857, 2021 (SCI-Expanded)
- V. **The influence of diet on the microbiota of live-feed rotifers (*Brachionus plicatilis*) used in commercial fish larviculture**  
Turgay E., Steinum T. M., Eryalçın K. M., Yardımcı R. E., Karataş S.  
FEMS MICROBIOLOGY LETTERS, vol.367, 2020 (SCI-Expanded)
- VI. **Histopathological investigation of complex gill disease in sea farmed Atlantic salmon**  
Gjessing M. C., Steinum T. M., Olsen A. B., Lie K. I., Tavornpanich S., Colquhoun D. J., Gjevre A.  
PLOS ONE, vol.14, no.10, 2019 (SCI-Expanded)
- VII. **Impact of excessive sedimentation caused by anthropogenic activities on benthic suspension feeders in the Sea of Marmara**  
Topcu N. E., Turgay E., Yardımcı R. E., Topaloglu B., Yuksek A., Steinum T. M., Karatas S., Orturk B.  
JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM, vol.99, no.5, pp.1075-1086, 2019 (SCI-Expanded)
- VIII. **Environmental biofilm communities associated with early-stage common dentex (*Dentex dentex*) culture**  
Turgay E., Steinum T. M., COLQUHOUN D., Karatas S.  
JOURNAL OF APPLIED MICROBIOLOGY, vol.126, no.4, pp.1032-1043, 2019 (SCI-Expanded)

- IX. **Multilocus sequence analysis reveals extensive genetic variety within *Tenacibaculum* spp. associated with ulcers in sea-farmed fish in Norway**  
 OLSEN A. B., GULLA S., Steinum T. M., COLQUHOUN D. J., NILSEN H. K., DUCHAUD E.  
 VETERINARY MICROBIOLOGY, vol.205, pp.39-45, 2017 (SCI-Expanded)
- X. **Multilocus Sequence Analysis of Close Relatives *Vibrio anguillarum* and *Vibrio ordalii***  
 Steinum T. M., Karatas S., MARTINUSSEN N. T., Meirelles P. M., Thompson F. L., COLQUHOUN D. J.  
 APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol.82, no.18, pp.5496-5504, 2016 (SCI-Expanded)
- XI. **An outbreak of scuticociliatosis in cultured common dentex (*Dentex dentex*) in Turkey**  
 Turgay E., Steinum T. M., GUL A. E., Karatas S.  
 BULLETIN OF THE EUROPEAN ASSOCIATION OF FISH PATHOLOGISTS, vol.35, no.3, pp.104-111, 2015 (SCI-Expanded)
- XII. **'*Candidatus Branchiomonas cysticola*' is a common agent of epitheliocysts in seawater-farmed Atlantic salmon *Salmo salar* in Norway and Ireland**  
 MITCHELL S. O., Steinum T. M., TOENSHOFF E. R., KVELLESTAD A., FALK K., HORN M., COLQUHOUN D. J.  
 DISEASES OF AQUATIC ORGANISMS, vol.103, no.1, pp.35-43, 2013 (SCI-Expanded)
- XIII. **Characterization and expression of the *gyrA* gene from quinolone resistant *Yersinia ruckeri* strains isolated from Atlantic salmon (*Salmo salar* L.) in Norway**  
 SHAH S. Q. A., Karatas S., NILSEN H., Steinum T. M., COLQUHOUN D. J., SORUM H.  
 AQUACULTURE, vol.350, pp.37-41, 2012 (SCI-Expanded)
- XIV. **A Novel Betaproteobacterial Agent of Gill Epitheliocystis in Seawater Farmed Atlantic Salmon (*Salmo salar*)**  
 TOENSHOFF E. R., KVELLESTAD A., MITCHELL S. O., Steinum T. M., FALK K., COLQUHOUN D. J., HORN M.  
 PLOS ONE, vol.7, no.3, 2012 (SCI-Expanded)
- XV. **Microbial and pathological findings in farmed Atlantic salmon *Salmo salar* with proliferative gill inflammation**  
 Steinum T. M., KVELLESTAD A., COLQUHOUN D. J., HEUM M., MOHAMMAD S., GRONTVEDT R. N., FALK K.  
 DISEASES OF AQUATIC ORGANISMS, vol.91, no.3, pp.201-211, 2010 (SCI-Expanded)
- XVI. **Epitheliocystis in Atlantic salmon, *Salmo salar* L., farmed in fresh water in Ireland is associated with '*Candidatus Clavochlamydia salmonicola*' infection**  
 MITCHELL S. O., Steinum T. M., RODGER H., HOLLAND C., FALK K., COLQUHOUN D. J.  
 JOURNAL OF FISH DISEASES, vol.33, no.8, pp.665-673, 2010 (SCI-Expanded)
- XVII. **An RT-PCR-DGGE survey of gill-associated bacteria in Norwegian seawater-reared Atlantic salmon suffering proliferative gill inflammation**  
 Steinum T. M., SJASTAD K., FALK K., KVELLESTAD A., COLQUHOUN D. J.  
 AQUACULTURE, vol.293, pp.172-179, 2009 (SCI-Expanded)
- XVIII. **Real time PCR detection of *Piscirickettsia salmonis* from formalin-fixed paraffin-embedded tissues**  
 Karatas S., MIKALSEN J., STEINUM T. M., TAKSDAL T., BORDEVIK M., COLQUHOUN D. J.  
 JOURNAL OF FISH DISEASES, vol.31, no.10, pp.747-753, 2008 (SCI-Expanded)
- XIX. **First cases of amoebic gill disease (AGD) in Norwegian seawater farmed Atlantic salmon, *Salmo salar* L., and phylogeny of the causative amoeba using 18S cDNA sequences**  
 Steinum T. M., KVELLESTAD A., RONNEBERG L. B., NILSEN H., ASHEIM A., FJELL K., NYGARD S. M. R., OLSEN A. B., DALE O. B.  
 JOURNAL OF FISH DISEASES, vol.31, no.3, pp.205-214, 2008 (SCI-Expanded)
- XX. **The *smr* gene resides on a novel plasmid pSP187 identified in a *Staphylococcus pasteurii* isolate recovered from unpasteurized milk**  
 BJORLAND J., BRATLIE M. S., Steinum T. M.  
 PLASMID, vol.57, no.2, pp.145-155, 2007 (SCI-Expanded)
- XXI. **Deletion of pT181-like sequence in an *smr*-encoding mosaic plasmid harboured by a persistent bovine *Staphylococcus warneri* strain**  
 BJORLAND J., Steinum T. M., SUNDE M., WAAGE S., SVILAND S., OPPEGAARD H., HEIR E.  
 JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY, vol.57, no.1, pp.46-51, 2006 (SCI-Expanded)

- XXII. **Widespread distribution of disinfectant resistance genes among staphylococci of bovine and caprine origin in Norway**  
BJORLAND J., Steinum T. M., KVITILE B., WAAGE S., SUNDE M., HEIR E.  
JOURNAL OF CLINICAL MICROBIOLOGY, vol.43, no.9, pp.4363-4368, 2005 (SCI-Expanded)
- XXIII. **Novel plasmid-borne gene qacJ mediates resistance to quaternary ammonium compounds in equine Staphylococcus aureus, Staphylococcus simulans, and Staphylococcus intermedius**  
BJORLAND J., Steinum T. M., SUNDE M., WAAGE S., HEIR E.  
ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, vol.47, no.10, pp.3046-3052, 2003 (SCI-Expanded)
- XXIV. **Organization of the antiseptic resistance gene qacA and Tn552-related beta-lactamase genes in multidrug-resistant Staphylococcus haemolyticus strains of animal and human origins**  
ANTHONISEN I., SUNDE M., Steinum T. M., SIDHU M., SORUM H.  
ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, vol.46, no.11, pp.3606-3612, 2002 (SCI-Expanded)
- XXV. **Horizontal transfer of a multi-drug resistance plasmid between coliform bacteria of human and bovine origin in a farm environment**  
OPPEGAARD H., Steinum T. M., WASTESON Y.  
APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol.67, no.8, pp.3732-3734, 2001 (SCI-Expanded)
- XXVI. **Stability of barley aleurone transcripts: Dependence on protein synthesis, influence of the starchy endosperm and destabilization by GA(3)**  
AALEN R., SALEHIAN Z., Steinum T. M.  
PHYSIOLOGIA PLANTARUM, vol.112, no.3, pp.403-413, 2001 (SCI-Expanded)
- XXVII. **Differential regulation of the barley (Hordeum vulgare) transcripts B22E and B12D in mature aleurone layers**  
Steinum T. M., BERNER H., STACY R., SALEHIAN Z., AALEN R.  
PHYSIOLOGIA PLANTARUM, vol.102, no.3, pp.337-345, 1998 (SCI-Expanded)
- XXVIII. **A peroxiredoxin antioxidant is encoded by a dormancy-related gene, Per1, expressed during late development in the aleurone and embryo of barley grains**  
STACY R., MUNTHER E., Steinum T. M., SHARMA B., AALEN R.  
PLANT MOLECULAR BIOLOGY, vol.31, no.6, pp.1205-1216, 1996 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Aeromonas veronii biovar veronii infection in European seabass (Dicentrarchus labrax) cultured in Turkey**  
Karataş Steinum S., Turgay E., Yardımcı R. E., Steinum T. M.  
Kahramanmaraş Sütçü İmam Üniversitesi Fen ve Mühendislik Dergisi, vol.11, no.11, 2023 (ESCI)
- II. **Multi-agent in situ hybridization confirms Ca. Branchiomonas cysticola as a major contributor in complex gill disease in Atlantic salmon**  
Gjessing M. C., Spilberg B., Steinum T. M., Amundsen M., Austbø L., Hansen H., Colquhoun D., Olsen A. B.  
Fish and Shellfish Immunology Reports, vol.2, pp.1-14, 2021 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Current Bacterial and Viral Disease Issues in Marine Aquaculture**  
Turgay E., Yardımcı R. E., Steinum T. M., Karataş Steinum S.  
in: Present-Day Turkish Aquaculture and Trends in International Research, Süheyla Karataş, Mustafa Yıldız, Editor, Istanbul University Press, İstanbul, pp.53-90, 2024
- II. **Current Parasitic and Fungal Disease Issues in Marine Aquaculture**  
Yardımcı R. E., Turgay E., Steinum T. M., Karataş Steinum S.  
in: Present-Day Turkish Aquaculture and Trends in International Research, Süheyla Karataş, Mustafa Yıldız, Editor,

## Refereed Congress / Symposium Publications in Proceedings

- I. **Akdeniz Taş Mercanının (*Cladocora caespitosa*) Saros Körfezi'ndeki Mevcut Durumunu Tespit Etmeye Yönelik Bir Araştırma**  
Yel İ. E., Yardımcı R. E., Turgay E., Steinum T. M., Güreşen S. O., Karataş Steinum S.  
Ulusal Sualtı Bilimsel Araştırma ve Değerleri Sempozyumu, Çanakkale, Turkey, 20 October - 22 December 2022, pp.31
- II. **Metazoan parasites found in combers (*Serranus cabrilla* (Linnaeus, 1758)) caught from the North Aegean Sea in Turkey**  
Yardımcı R. E., Turgay E., Steinum T. M., Karataş Steinum S.  
EAFP 2021, Aberdeen, United Kingdom, 20 - 23 September 2021, pp.291
- III. **Detection of an acanthocephalan parasite from the genus *Pomphorhynchus* in *Symphodus tinca* (Linnaeus, 1758) in Turkey**  
Yardımcı R. E., Turgay E., Steinum T. M., Karataş Steinum S.  
EAFP 2021, Aberdeen, United Kingdom, 20 - 23 September 2021, pp.290
- IV. **Genotyping of Turkish *Tenacibaculum maritimum* isolates**  
Steinum T. M., Turgay E., Yardımcı R. E., Karataş Steinum S.  
19th International Conference on Diseases of Fish and Shellfish, Porto, Portugal, 9 - 12 September 2019, pp.282
- V. **The bacterial microbiota of octocorals living in the Sea of Marmara**  
Karataş Steinum S., Turgay E., Yardımcı R. E., Topçu Eryalçın N. E., Steinum T. M.  
19th International Conference on Diseases of Fish and Shellfish, Porto, Portugal, 9 - 12 September 2019, pp.253
- VI. **An Outbreak of Photobacteriosis in Public Aquarium Held Smooth-hound Sharks (*Mustelus mustelus*, Linnaeus 1758)**  
Yardımcı R. E., Turgay E., Steinum T. M., Karataş Steinum S.  
Aquaculture Europe 2017, Dubrovnik, Croatia, 17 - 20 October 2017, pp.566
- VII. **FIRST REPORT ON VIBRIO HARVEYI CAUSING DISEASE IN SALEMA SARPA SALPA HELD IN A PUBLIC AQUARIUM IN TURKEY**  
STEINUM T. M., YARDIMCI R. E., TURGAY E.  
Aquaculture Europe 2017 - Dubrovnik, Croatia, Split, Croatia, 17 - 20 October 2017, pp.1-5
- VIII. **First Isolation of a *Flavobacterium johnsoniae* like Bacteria From Cultured Russian Sturgeon in Turkey**  
KARATAŞ STEINUM S., ERCAN M. D., TURGAY E., MEMİŞ D., Candan A.  
14th EAFP International Conference on Diseases of Fish and Shellfish, Prag, Czech Republic, 14 - 19 September 2009, pp.333

## Supported Projects

- YARDIMCI R. E., STEINUM T. M., TURGAY E., KARATAŞ STEINUM S., YEL İ. E., GÜREŞEN S. O., Project Supported by Higher Education Institutions, Kuzey Ege Denizi Saros Körfezinde Bulunan *Cladocora caespitosa* Kolonilerinin Bakteriyel Mikrobiyotasının Tespiti, 2021 - 2024
- TURGAY E., STEINUM T. M., KARATAŞ STEINUM S., YARDIMCI R. E., YILDIZ M., Project Supported by Higher Education Institutions, Gökkuşluğu Alabalığının *Oncorhynchus mykiss* Bağırsak Bakteriyel Mikrobiyotası Üzerine Monokalsiyum Fosfat (MCP) ve Fitaz Enzimi Yem Katkı Maddelerinin Etkisi, 2021 - 2024
- TURGAY E., TOPÇU ERYALÇIN N. E., KARATAŞ STEINUM S., YARDIMCI R. E., STEINUM T. M., Project Supported by Higher Education Institutions, Marmara Denizi'nde yaşayan yalancı siyah mercanların (*Savalia savaglia*) bakteriyel mikrobiyotasının belirlenmesi, 2019 - 2021
- STEINUM T. M., TURGAY E., YARDIMCI R. E., KARATAŞ STEINUM S., Project Supported by Higher Education Institutions,

Genotyping of Turkish *Tenacibaculum maritimum* isolates, 2019 - 2019

TURGAY E., YARDIMCI R. E., STEINUM T. M., KARATAŞ STEINUM S., ERYALÇIN K. M., Project Supported by Higher Education Institutions, Farklı yemlerle beslemenin, rotiferlerin (*Brachionus plicatilis*) ve rotifer kültürü yapılan suyun bakteriyel mikrobiyotası üzerine etkisi, 2017 - 2018

STEINUM T. M., TURGAY E., YARDIMCI R. E., KARATAŞ STEINUM S., Project Supported by Higher Education Institutions, FIRST REPORT ON VIBRIO HARVEYI CAUSING DISEASE IN SALEMA SARPA SALPA HELD IN A PUBLIC AQUARIUM IN TURKEY, 2017 - 2018

KARATAŞ STEINUM S., STEINUM T. M., YARDIMCI R. E., TURGAY E., Project Supported by Higher Education Institutions, AN OUTBREAK OF PHOTOBACTERIOSIS IN PUBLIC AQUARIUM HELD SMOOTHHOUND SHARKS *MUSTELUS MUSTELUS* LINNAEUS 1758, 2017 - 2018

STEINUM T. M., KARATAŞ STEINUM S., ARDA E. Ş. N., YARDIMCI R. E., PEKMEZ M., TURGAY E., TEKELİ F., Project Supported by Higher Education Institutions, *Tenacibaculum maritimum* izolatlarının filogenetik ve enzimatik karakterlerinin incelenmesi, 2016 - 2018

STEINUM T. M., COLQUHOUN D., Project Supported by Higher Education Institutions, A pilot metagenomics study of microorganisms associated with chronic gill disease in farmed Atlantic salmon, 2016 - 2016

## Metrics

Publication: 40

Citation (WoS): 880

Citation (Scopus): 921

H-Index (WoS): 15

H-Index (Scopus): 15