

Name and Family Name: Gad Degani

Position: Professor

Department: Biotecnology BSc and MSc, Life scince

Phone Number: 050-5586706

E-mail: gad@migal.org.il

1. Research Group :

Aquaculture-related biotechnology, molecular endocrinology and molecular markers used in ecology and aquaculture. Biology and ecology of fish and amphibians and their adaptation to various habitats.

2. Research Fields and Goals:

Gene expression mechanisms in hormonal control of fish growth and reproduction

Animals and fish in the ecological system and environmental effects on habitat selection

Fish and amphibian nutrition

Molecular markers in fish

Aquacultural biotechnology

3. Scientists :

Prof. Gad Degani – gad@migal.org.il

Dr. Svetlana Yom-Din – svetlar

Dr. Avshalom Hurvitz – hurvitz@kdan.ac.il

Prof. Dani Bercovich



4. Students:

Ph.D. students

Dr. Avshalom Hurvitz – hurvitz@kdan.ac.il

Dr. Karen Jackson – karen@migal.org.il

Dr. Itai Tzchori

Dr. Svetlana Yom-Din – svetlanay@migal.org

Dr. Gal Levy – gall@migal.org.il

Dr. Tali Goldberg – talig@migal.org.il

Dr. Oren Pearlson – orenp@migal.org.il

Dr. David Kushnirov

Dr. Rakept Sharon

M.Sc. students

Dalia David

Lior Shauder

Maital Ezagouri

5. Collaborators:

Prof. Eviatar Nevo - Institute of Evolution and Department of Evolutionary and Environmental Biology, University of Haifa, Israel E-mail: nevo@research.haifa.ac.il.

Prof. Berta Levavi-Sivan - Faculty of Agricultural, Food and Environmental Quality Sciences, Department of Animal Sciences, The Hebrew University of Jerusalem, Rehovot 76100, Israel. E-mail:sivan@agri.huji.ac.il

Dr. Doron Goldberg - MIGAL-Galilee Technology Center, P.O. Box 831, Kiryat Shmona 11016, Israel School of Science and Technology, Tel-Hai Academic College, Galilee, Israel. E-mail: Goldberg@migl.org.il

Prof. Yoav Gothilf - Department of Neurobiology, George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv 69978, Israel. E-mail:YoavG@tauex.tau.ac.il

Prof. Dani Bercovich - MIGAL-Galilee Technology Center, P.O. Box 831, Kiryat Shmona 11016, Israel School of Science and Technology, Tel-Hai Academic College, Galilee, Israel. E-mail:

5. General Details

Professor Gad Degani

MIGAL-Galilee Technology Center, P.O. Box 831, Kiryat Shmona 10200, Israel. School of Science and Technology, Tel-Hai Academic College, Galilee, Israel.

Contact details:
Telephone: 972(04)6953502, 0505586706
Lab: 972(04)6953550
Fax: 972(04)6944980
E-mail: gad@migal.org.il
https://www.researchgate.net/profile/Gad_Degani/contributions/?ev=prf_act



Education

Ph.D., Department of Zoology, Tel Aviv University

M.Sc., Department of Biology, Technion – Israel Institute of Technology, Haifa

B.Sc., Haifa University

Academic Activities

2008 – 2013: Chairperson, M.Sc. Program, Department of Biotechnology, Tel Hai College

Since 1998: Professor, Tel-Hai College Faculty of Sciences and Technology

1997- 2003: Professor, Faculty of Agriculture, Hebrew University

Since 1986-2011: Academic Director, MIGAL - Galilee Technology Center

1999 – 2003: Dean of the Faculty of Sciences and Technology, Tel-Hai College

1987 – 1999: Academic Director of Agriculture, Tel-Hai College

1994: Visiting Professor, University of Maryland

1993: Adjunct Professor, East Carolina University, NC

1991: Visiting Scientist, City University of New York, Brooklyn College

1983 – 1984: Visiting Scientist, East Carolina University, NC, USA

1981 – 1982: Research Associate, Department of Biology, Technion - Israel Institute of Technology

Since 1979: Lecturer, Tel-Hai College Faculty of Sciences and Technology and researcher at MIGAL - Galilee Technological Center

Professional Experience and Training

1990 – 1999: Director, Golan Research Institute

1976 - 1979: Principal, Kibbutz Sasa High School

1971 – 1976: Teacher of biology, mathematics and agriculture, Kibbutz Sasa High School

1964 – 1971: Agricultural worker in orchards

Membership in Professional Organizations

Israel Zoology Society

Israel Environment and Ecology Society

Israel Society of Aquaculture

Israel Society of Endocrinology

Society for the Study of Amphibian and Reptiles

Publications

Ph.D Thesis:

Degani, G. (1979), The Eco-Physiology of *Salamandra salamandra infraimmaculata* (L.) in Israel. Department of Zoology, Tel Aviv University (Hebrew with English abstract).

Books:2024 Biological Adaptations of Anuran Species across Diverse Habitats-电子版 (2).pdf

1. Degani, G & Yom-Din, G. (2005). Research on new fish species for aquaculture in northern Israel. Haifa, Israel: Ayalon Offset Ltd.pdf.
2. Degani, G. (2001). Blue gourami (*Truchogaster trichopterus*) model for labyrinth fish. Israel: Laser Pages Publishing.pdf. 2001 Blue Gourami Book PDF.pdf
3. Degani, G. (1996). The salamander at the southern limit of its distribution. Israel: Laser Pages Publishing.1996 Salamandra Israel PDF.pdf
4. Degani, G. & Gallagher, M.L. (1995). *Growth and nutrition of eels*. Israel: Laser Pages Publishing.pdf
5. **Degani, G. 2019. The Fire salamandra (*Salamandra infraimmaculata*) and the Banded newt (*Triturus vittatus*) along the southern border of their. Published by Scientific Research Publishing, Inc. ISBN: 978-1-61896-693-3.2019 THE FIRE SALAMANDRA E-book.pdf http://www.scirp.org**
6. **Degani, G. 2022. Interaction of Sexual Behavior and Hormone Gene Expression in the Labyrinthici Fish Blue Gourami (Trichogaster trichopterus) during Reproduction. Scientific Research Publishing. 1-135..pdf**
7. **Degani, G. 2024. Biological Adaptations of Anuran Species across Diverse Habitats, Spanning Mediterranean to Desert Climates. Scientific Research Publishing. 1-92. 2024 Biological Adaptations of Anuran Species across Diverse Habitats-电子版.pdf**

Chapters in Books:

1. Gallagher, M.L. & Degani, G. (1995). Eel culture. In Stickney, R. (Ed.), *Encyclopedia of aquaculture* (pp. 277-283). Hoboken, NJ: John Wiley and Sons, Inc.

2. Degani, G. (2017). Steroids Controlled by Various Hormones Influence Oogenesis and Spermatogenesis of the Model Fish, *Trichogaster Trichopterus* (Anabantidae, Pallas). Avid Science Publication, Advances in Sex Steroids, chapter 1, Sex Steroids. 1: 1-31.pdf
3. Degani, G. (2021). Blue Gourami (*Trichogaster trichopterus*) Encyclopedia. Biology.Blue Gourami.html
4. Degani, G. 2021.The Effect of Light and Soil Moisture on the Environmental Behavior of Newts (*Triturus vittatus vittatus*, Urodela): A Detailed Study Current Research in Agriculture and Veterinary Sciences Vol. 3, 37-45. https://stm.bookpi.org/CRAVS-V3/article/view/1584
5. Degani, G. 2021. Study of the Habitats, Burrowing Behavior, Physiological Adaptation and Life Cycle of Spadefoot Toad (*Pelobates syriacus, Boettger*, 1869) at the Southern Limit of Its Current Research in Agriculture and Veterinary Sciences Vol. 3, 27-36. https://stm.bookpi.org/CRAVS-V3/article/view/1583
6. Degani, G. 2021. Study of Life Cycle of Tree Frogs (*Hyla savygnyi*) in Semi-Arid Habitats in Northern Israel Recent Research Advances in Biology Vol. 6, 84-95. https://stm.bookpi.org/RRAB-V6/article/view/812

Articles:

1. Degani, G. and Bercovich. D. 2026. Bufotes and Pelophylax as Models for Semi-Arid Terrestrial and Aquatic Life: A Hypothesis-Generating Comparative Review of Ecological, Physiological and Candidate-Gene. Open Journal of Animal Sciences, 2026, 16(4), 415-440 https://www.scirp.org/journal/ojas ISSN Online: 2161-7627 ISSN Print: 2161-759.2026 Bufonit Pelophylax ojas_1401664 (1).pdf
2. Monika, A., Degani, G., Bercovich. D. Ari Meerson, A. 2026. Faunal and Floral Assemblages of the Zavitan (Zvitan) Stream near Katzrin (Central Golan Heights, Israel) and Their Influence on Amphibians. Voice of the Publisher, 12(3), 558-569.2026 Zavitan Katzrin vp_2141516.pdf
3. Degani, G. 2026. Seasonal Color Plasticity in Hyla savignyi as a otential Adaptation to Mediterranean and Semi-Arid Environments. Open Journal of Ecology, 2026, 16(9), 403–411. https://doi.org/10.4236/oje.2026.169023 112026 Hyla colore oje_1381894 (1).pdf
4. Degani, G. 2026. Growth Hormone Involvement in Growth, Oogenesis, Sex Determination and Differ entiation in Russian Sturgeon (*Acipenser gueldenstaedtii*): An Integrative Review. Voice of the Publisher, 12, 401-414.2026 vp_2141571.pdf
5. Levanon, D. and Degani, G. 2026. Academic, Scientific and Administrative Bodies Operating and Managing the MIGAL Research Institute Journal of Service Science and Management, 19(2), 127-134.2026 Levanon and Degani JSSM.pdf
6. Degani, G. Ish-Am, G. 2026. Observed November Dispersal of Juvenile Salamandra infraimmaculata from a Stone-Structured Breeding Site in Northern Israel: European Journal of Zoolog, 2976-5404.2026 EJ-ZOOLOGY_443.pdf
7. Degani, F. 2026. Early Molecular Sex Determination before Gonadal Differentiation in Russian Sturgeon (Acipenser gueldenstaedtii): Mechanisms and Recent Advances. Open Journal of Animal Sciences, 89-96.https://www.scirp.org/journal/oja2026 RS SD ojas_1401592.2026 RS SD ojas_1401592.pdfpdf

8. Meerson, A., Almozlino, M., Degani, and Bercovich, D. 2025. Epitranscriptomic variation in banded newts (*Ommatotriton vittatus*) across life stages and sexes in the semi-arid habitat in northern Israel. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics2025 CBP D O vittus.pdf
9. Degani, G. 2025. Variation of Colors in Amphibians: Adaptive Strategies in Natural Habitats from Mediterranean Climate to a Desert Environment in Israel. Open Journal of Animal Sciences, 15(4), 382-401. 2025 ojas_F 1401574.pdf
10. Degani, G. 2025. Life Cycle Observations of the Palestine Sunbird (Cinnyris osea) in Karmiel, Israel. Journal of Animal Sciences, 15, 332-338. https://doi.org/10.4236/ojas.2025.154023 2025 Sunbirds ojas_1401560.pdf
11. Levanon D. Degani, G. Marchaim, U. 2025. Biological Research Efforts for Regional Development: Waste management. J. Fortune. 9. 85 -90.2025 .pdf
12. Degani, G. Levanon D. 2025. Development of an Applied Academic Research Institute by a Group of Researchers from Various Disciplines, with the Overarching Goal of Advancing Science in a Peripheral Region. Open Journal of Applied Sciences. https://www.scirp.org/journal/ojapps ISSN Online: 2165-3925 ISSN Print: 2165-3917.2025 OJAS Academic.pdf
13. Degani G. 2025. Identification of a New Stage in Salamandra infraimmaculata Metamorphosis Open Journal of Animal Sciences, 15, 235-242.2025 ojas_1401539.pdf
14. Levanon, D. Degani, 2025. Scientific Research and Higher Education as A Lever for Bottom-Up Regional Development. Journal of Biotechnology and Biomedicine. : 97-101. 2025 scientific-research-and-higher-education.pdf
15. Degani, G. 2025. Biological adaptations of anuran species across diverse habitats, spanning mediterranean to desert climates. Sci. Res. Pub, 1-94. 2024 Biological Adaptations of Anuran Species across Diverse Habitats-电子版 (2).pdf
16. Degani, G. 2024. A Qualitative Model Demonstrating the Adaptation of Amphibians to Semi-Arid and Arid Habitats: Comparing the Green Toad Bufotes sitibundus (Pallas, 1771) and Pelophylax bedriagae (Camerano, 1882) Animals, 14, 33512024 Bufo Rana animals-14-03351 (2).pdf
17. Degani, G. and Meerson, A. 2024. Sex Differences in the Brain Transcriptomes of Adult Blue Gourami Fish (*Trichogaster trichopterus*) Fishes 2024, 9, 287.2024 Gourmi Sex Vaiaionfishes-09-00287-v2 (1).pdf
18. Degani, G. and Meerson, A. 2024.Transcriptome variation in banded newt (*Ommatotriton vittatus*) during its life cycle and habitat transition. Comparative Biochemistry and Physiology - Part D: Genomics and Proteomics:50, 1-10. 101203.20242024 Triton paper 2024 final.pdf
19. Degani, G., Levanon, D., and Levy, Y. 2023. Establishment Of The Faculty Of Sciences At Tel-Hai Academic College: An Important Step In The Establishment Of A University In The Northeast Of Israel. International Journal of Multidisciplinary and Current Educational Research (IJMCER) ISSN: 2581-7027 ||Volume|| 5 ||Issue|| 2 ||Pages 59-65. |2023 IJMCER_F052059065.pdf
20. Degani, G., Am, G.I., Am, A.B.I., Yatom, N., Marshansky, A., Margalit, S., Nissim, E., Goldstein, H. and Shaked, N. (2023) The Yellow Spot Pat tern of Salamander (*Salamandra infraimma* culata) in Various Habitats at the Southern Border of Its Distribution in Israel. Open Journal of Animal Sciences, 13, 114-125. https://doi.org/10.4236/ojas.2023.131008.pdf

21. Degani G. External And Internal Factors Affecting Growth and Sex Differentiation in European Eels, *Anguilla anguilla*. Endocrinol Metab Nutr. 2022; 1(2): 1-4.2022 Eel EMN Rev.pdf
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23. Degani, G. 2022. Sturgeon (*Acipenser gueldenst*aedtii) Acclimatization to Optimal Growth Conditions—A Case Study of Adaptation, Nutrition, Reproduction, and Sex Determination. Open Journal of Animal Sciences, 12, 629-661. https://doi.org/10.4236/ojas.2022.124045.2022 Dan MIGAL Sturgeon OJAS.pdf
24. Degani, G.Nevo Sarel, M. , Akram Hajouj, A. A. Hurvitz, A. . Veksler-Lublinsky , A. and Meerson. A. 2022. 2022. Whole-Genome Inter-Sex Variation in Russian Sturgeon (*Acipenser gueldenstaedtii*). Int. J. Mol. Sci. 2022, 23, 9469. https://doi.org/10.3390/ ijms2316946. 2022 AG ijms-23-09469.pdf
25. Degani, G. and Yom Din, G. 2022. A Business Analysis of Innovations in Aquaculture: Evidence from Israeli Sturgeon Caviar Farm. Businesses: 2, 290-299.2022 Business Analysis.pdf
26. Curzon, A.Y., Shirak, A., Meerson, A., Degani, G., Hurvitz, A., Naama Ben-Naim, N., Domovitz, R. Ron, M., Seroussi, E. 2022. Cross-species conservation of a transposase-linked element enables
genetic sexing of commercial populations of Russian sturgeon (*Acipenser gueldenstaedtii*) Anim. Gene: 00:1-6..pdf
27. Degani, G. 2022. Changes in Tree Frog (*Hyla savignyi*) coloration in unstable habitats at the southern border of its distribution. Open J. Anim. Sciences. 12, 68-75..pdf
28. Degani, D., Levanon, D. and Yom D, G. 2021 Academic Research, Higher Education, and Peripheral Development: The Case of Israel. Economies: 9, 1-9. .pdf
29. Degani, G. and Ahkked, N. 2021. Ecological and Biological Adaptations of *Triturus vittatus vittatus* (Urodela) to an Unstable Habitat. Int. J. Zoo. Animal. Biol:3.1-8. 10.23880/izab-16000305..pdf
30. Degani, G., Veksler-Lublinsky, I and Meerson, A. 2021. Markers of Genetic Variation in Blue Gourami (*Trichogaster trichopterus*) as a Model for Labyrinth Fish. Biology. 10, 228. https://doi.org/10.3390/biology10030228.pdf.

31. Degani, G., Hajouj, A. and Hurvitz, A. 2021. Sex-Based Variation of Gene Expression in the Gonads and Fins of Russian Sturgeon (Acipenser gueldenstaedtii). Open Journal of Animal Sciences:11, 1-10..pdf
32. Atre, I., Mizrahi, N., Hausken, K.,Yom-Din, S., Hurvitz, A., Degani, G., Levavi-Sivan, B. 2021. Molecular characterization of kisspeptin receptors and gene expression analysis during oogenesis in the Russian sturgeon (*Acipenser gueldenstaedtii*). Gen. Comp. Endo. 302:1-13.2021 kisspeptin receptors Russian sturgeon GCE.html
33. Yom Din G. and **Degani, G.** 2020. Economic Evaluation of Early Sex Determination for Farmed Russian: The Case of Northern Israel. Modern Economy, 11, 1977-1983..pdf
34. Degani, G. (2020) A Qualitative Model of the Interaction of Sexual Behavior and Hormone Gene Transcription in Male Blue Gourami during Reproduction. *Journal of Biophysical Chemistry*, 11, 43-50. https://doi.org/10.4236/jbpc.2020.114004.pdf
35. Atre, I., Mizrahi, N., Santidrian, E., Pimentel, Y., Hausken, K., Yom-Din, S. Hurvitz, A., Dirks, R., Degani, G., Levavi-Sivan, B. .2020. Molecular characterization of two Russian sturgeon gonadotropin receptors: cloning, expression analysis, and functional activity. Gen. Compar. Endo. 298:1-11. 113557.pdf

36. Degani, G. 2020. Brain control reproduction by the endocrine system of female blue gourami (*Trichogaster trichopterus*). Biology. 9: 1-16. 109; doi:10.3390/biology9050109.pdf
37. Degani, G., Alon, A. Hajouj, A. and Ari Meerson, A. 2019. Vitellogenesis in Blue Gourami is Accompanied by Brain Transcriptome Changes. Fishes. 4: 1-11. 54; doi:10.3390/fishes4040054.pdf
38. **Degani, G. 2019**. Ecological and Genetic Variation of the Distribution of Various Species of Amphibians at the Southern Border of their Distribution. Int J Plant Anim Environ Sci. 9: 21-41..pdf
39. **Degani, G.**, Grosman, U., Goldberg, T., Hanegbi, N. 2019. Damage to *Salamandra infraimmaculata* Populations by Human Activity in Creating Water Pits Is a Death Trap in Semi-Arid Habitats. Open J. Anim. Scien. 9:23-34..pdf
40. **Degani, G.**, Hurvitz, A. Elbaz, Y. and Meerson, A. 2019. Sex-related gonadal gene expression differences in the Russian sturgeon (Acipenser gueldenstaedtii) grown in stable aquaculture conditions. Ani. Reprod. Sci. 199:75-85..pdf
41. **Degani, G.**, 2018. Genetic Variation in Xeric Habitats of T*riturus vittatus vittatus* (Urodela) Using Mitochondrial DNA of 12S and16S, and Nuclear Gene, Rhodopsin, on the Southern Border of its Distribution. Intern. J. of Zool. Invest. 4: 31-40..pdf
42. **Degani, G.**, 2018. Oocytes Development in the Fry of Blue Gourami, *Trichogaster trichopterus.* Intern. J. of Zool. Invest 4: 11-20..pdf
43. **Degani, G.,** Alon, A., Stoler, A. and Bercovich, D. 2017. Evidence of a Reproduction-Related Function for Brine Kisspeptin2 and its Receptors in Fish *Trichogaster trichopterus*. Intern. J. of Zool. Invest. 3 : 106-122..pdf
44. **Degani, G.**, Hurvitz, A and Levavi-Sivan, B.2017.Vitellogenin Level in the Plasma of Russian Sturgeon (*Acipenser gueldenstaedtii*) Northern Israel. J. Marine. Sci. Res. Dev. 7:1-4..pdf
45. **Degani, G. 2017**. Ecological, Biological and Genetic Adaptation to Xeric Habitats of *Salamandra infraimmaculata* on the Southern Border of Its Distribution. Open Journal of Animal Sciences,7:70-92..pdf
46. **Degani, G. 2017**. Ecological, Biological, Behavioral and Genetic Adaptation to Xeric Habitatsof *Triturus Vittatus Vittatus* (Urodela) on the Southern Border of its Distribution. J. Marine. Sci. Res. Dev. 7:1-13..pdf
47. **Degani, G.**, Yom-Din, S., Hurvitz, A . 2017. Transcription of Insulin-Like Growth factor Receptor in ovary of Russian sturgeon (*Acipenser gueldenstaedtii*) during oogenesis. Universal Journal of Agricultural Research 5(2): 119-124..pdf
48. Yom-Din, S., Hollander-Cohen, Joseph Aizen, J., Boehm, B., Shpilman, M., Golan, M., Hurvitz, A., **Degani, G.** Levavi-Sivan, B. **2016**. Gonadotropins in the Russian Sturgeon: Their Role in Steroid Secretion and the Effect of Hormonal Treatment on Their Secretion. PLOS ONE. 13:1-23..pdf
49. **Degani, G. 2016.** A Model of Hormonal and Environmental Involvement in Growth and Sex Differentiation in European Eel (*Anguilla anguilla*). Advances in Biological Chemistry. 6: 141-145..pdf
50. **Degani, G. 2016**. The Habitats, Life Cycle and Physiological Adaptation of Green Toad (*Pseudepidalea viridis*) in Northern Israel. Internal Journal of Scientific Research 5: 113-117.pdf
51. **Degani, G. 2016**.The Relationship between Quality of Teaching and Student Evaluations: The Case of an Academic Course in Endocrinology. Voice of the Publisher 2: 13-17. **.pdf**
52. **Degani, G. 2016**. Cannibalism, among Other Solutions of Adaption, in Habitats Where Food Is Not Available for *Salamandra in fraimmaculata* Larvae Diet in Breeding Places in Xeric Habitats. Open Journal of Animal Sciences. 6: 31-41..pdf

53. **Degani, G. a**nd Michael Bar Ziv**. 2016.** Male Blue Gourami (*Trichogaster trichopterus*) Nest-Building Behavior Is Affected.by Other Males and Females. Open Journal of Animal Sciences: 6: 195-201..pdf
54. **Degani, G. 2016.** Life cycle of tree frogs (*Hyla savygnyi*) in semi-arid habitats in northern Israel. International Journal of Biology 8: 17-26..pdf
55. **Degani, G. 2016.** Oogenesis control in multi-spawning blue gourami (*Trichogaster trichopterus*) as a model for the Anabantidae family. Internal Journal of Scientific Research 5: 179-184..pdf
56. **Degani, G. 2015.** Somatolactin Transcription during Oogenesis in Female Blue Gourami (*Trichogaster trichopterus*). Advances in Biological Chemistry 5:279-285. .pdf
57. **Degani, G. 2015.** Proposed Method for Evaluating the Relevance of Publications by Faculty Members from Tel-Hai Academic College Compared to the Academic Status of Full Professors in the Same Field in Israeli Research Universities. Voice of the Publication 1: 35-40..pdf
58. **Degani, G. 2015.** The Effect of Light and Soil Moisture on the Environmental Behavior of Newts (*Triturus vittatus vittatus*, Urodela). Open Journal of Animal Sciences. 5: 411-417..pdf
59. **Degani, G. 2015.** Academic Status of Full Professors in the Faculty of Science and Technology at the Tel-Hai Academic College and the MIGAL – Galilee Research Institute Compared to the Academic Status of Full Professors in the Same Field in Research Universities in Israel. World. Op. J. Educat. Res. 2: 1-8..pdf
60. **Degani, G. 2015.** The habitats, burrowing behavior, physiology adaptation and life cycle of Spadefoot toads (*Pelobates syriacus*, Boettger, 1869) at the southern limit of its distribution in Israel. Open Journal of Animal Sciences. 5: 249-257..pdf
61. **Degani, G. 2015.** 11-ketotesterone (KT-11), Estradiol estradiol (E2) level and cytochrome P450 (bgCYP19a) Ttranscription of in the testis of male blue gourami (*Trichogaster trichopterus*). Inter. J. Sci. Res. 4: 641-643.pdf
62. **Degani, G.** and Goldberg, T. 2015. Effect of human activity in creating a death trap for *Salamandra infraimmaculata* seeking breeding places during colonization of new breeding sites. Amer. Open. Anim. Sci J. 2: 1- 11.pdf
63. **Degani, G. 2014.** Expression of SOX3 and SOX9 genes in gonads of blue gourami. Advances in Biological Chemistry. 4: 322-330.pdf
64. **Degani, G. 2014.** DNA variation of Capoeta damascina (Valenciennes, 1842) in three rivers in northern Israel. J. Biophys. Chem. 5: 107-117..pdf
65. **Degani, G.** 2014. Expression of the growth hormone and insulin-like growth factor 1 genes in the male and female blue gourami (*Trichogaster trichopterus*) at different temperatures. Journal of Asian Scientific Research, 4: 413-427..pdf
66. **Degani, G.**, Goldberg, T. and Nevo, E. 2014. Genetic Variation in *Salamandra infraimmaculata* from Different Habitats Using Amplified Fragment Length olymorphism. J. Biophys. Chemist. **5: 54-66**..pdf
67. **Degani, G.** 2014. Involvement of GnRH and Gonadotropin Genes in Oocyte Development of Blue Gourami Females (*Trichogaster trichopterus*) Advances in Biological Chemistry 4: 197-202.pdf
68. **Degani, G**. and Biton, E. 2013. Tree frog (*Hyla savygnyi*) color and substrate preference. Amer. Open. Anim. Sci J. 3:3-40..pdf
69. **Degani, G**. and Goldberg, T. 2013. Aquatic Invertebrates in Different Bodies of Water in a Semi-Arid Zone. Amer. Open. Anim. Sci. J: 1,1-16. **.pdf**
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72. **Degani, G**. and Hurvitz, A. 2013.The Ayu: effect of Israeli aquaculture on growth, gonad development, and gene transcription of β FSH, β LH aND GH. J. Fisher. Aquacul: 1, 1-5.pdf
73. **Degani, G**., Pearlson, O. and Goldberg, T. 2013. Impermanent Breeding Site Selection - Fitness of Gonadal Cycle and Larval Growth of *Triturus vittatus vittatus* (Urodela) from the Southern Limit of Its Distribution. Amer. Open. Anim. J: 1, 16-30..pdf
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75. Gal Levy, G., and **Degani, G.** 2013.The role of brain peptides in the reproduction of blue gourami males (*Trichogaster trichopterus*). J. Exp. Zool. 9999A:1-10..pdf
76. **Degani, G**., Goldberg, T., Gazith, A., Elorom, E. and Nevo, E. 2013. The DNA Variation of *Pseudepidalea viridis* (Syn. *Bufo viridis*) from Various Habitats. Zoological Studies. 52:18. 1-15..pdf
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Current & recent research

Biology and Physiology of Fish and Amphibians

This field involves research into species of fish and amphibians that are less well known. The areas of research are: reproduction growth and nutrition in nature and behavior. In addition, certain aspects of environmental physiology of species of fish and amphibians are under examination: the objects of this aspect of research is the study of metabolism, and the influence of temperature on growth, the physiological adaptation of amphibians to their environment, in water economy and the control of body fluids under the influence of different environmental conditions

of moisture and temperature, especially salinity tolerance and osmoregulation. These are studies in the fields of comparative and environmental physiology.

Nutrition of Fish and Amphibians

This research can be divided into a number of areas. A portion deals with the natural food of animals. Another portion involves efforts to improve the formulation of artificial food for fish (a) through learning the chemical body composition of fish, and from this determining the percentages of its required ingredients; (b) through examining the value of protein in fish food; (c) examining the value of fats,); (d) examining the value of carbohydrates. At present, work in nutrition concentrates on the development of the formulation of food for tropical fish.

The Influence of Hormones on the Growth and Reproduction of Fish

Current work concerns the steroids and other hormones of fish, and their influence on various processes in fish, in particular growth, body composition, food requirements and enzymatic processes . Particularly worth mentioning is the breakthrough in which Prof. Degani has shown that growth hormones and insulin can be absorbed into the body of the fish through oral administration: up to that time it was thought that whole proteins could not be absorbed into the bloodstream via the gills or the digestive system. Further work on the reproductive system has shown that other proteinous hormones can be administered in the same way, e.g., gonadotropin. Present research work concerns hormonal control of reproduction.

Animals in the Ecological System and Environmental Behavior

Dr Degani's work on the ecology of water systems concentrates mainly on the interrelationship between various animals and their aquatic ecosystems, especially environmental influences such as water quality and food, the prime factors in animal interaction. There is an additional interest in behavioral models of animals in nature, aiming to establish how the animal adapts itself to its environment through its behavior.