Name: Sarig Gafny **Date: October 2021**

CURRICULUM VITAE

1. Personal Details

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2. Higher Education

A. Undergraduate and Graduate Studies

Period of Study	Name of Institution and Department	Degree	Year of Approval of Degree
1986-1992	Tel-Aviv University, Faulty of Life Sciences Zoology Dept.	Ph.D.	1993
1984-1986	Tel-Aviv University, Faulty of Life Sciences Zoology Dept.	M.Sc. (Cum Laude)	1986
1982-1984	Tel-Aviv University, Faulty of Life Sciences	B.Sc.	1984

B. Post-Doctoral Studies

Period of Study	Name of Institution, Department and Host	Degree	Year of Completion
1992-1995	Center for Limnology. UW Madison, USA. Host: Prof. Stephen R. Carpenter		1995

3. Academic Ranks and Tenure in Institutes of Higher Education

Dates	Name of Institution and Department	Rank/Position
2012- present	Faculty of Marine Sciences. Ruppin Academic Center	Associate Professor
2007-2014	Porter School of Environmental Sciences. Tel-Aviv University	External lecturer,
2004-2012	School of Marine Sciences. Ruppin Academic Center	Senior lecturer
2003-2004	School of Maritime and Marine Environment Sciences. Ruppin Academic Center	Lecturer
1998-2004	Israel Maritime college, Michmoret, Israel.	Lecturer
1995-2007	Bet-Berl College;	Lecturer
1995-2006	Institute for Nature Conservation Research, Tel Aviv University.	Research scientist
1992-1995	Center For Limnology, University of Wisconsin Madison, USA.	Research associate
1989-1991	College Division, Oranim School of Education.	Lecturer

4. Offices in Academic Administration

Dates	Name of Institution and Department	Position
2018 – Present*	Faculty of Marine Sciences. Ruppin Academic Center	Head of the Marine Sciences M.Sc. Program
2018 (3 months)*	Faculty of Marine Sciences. Ruppin Academic Center	Acting Dean
2018 – Present*	Faculty of Marine Sciences. Ruppin Academic Center	Faculty Committee.
2018 – 2020*	Ruppin Academic Center	Academic Council
2017-2019*	Ruppin Academic Center	Research and Training Committee
2014*	School of Marine Sciences. Ruppin Academic Center.	Chair of Professional Appointment Committee
2013-2015	Ruppin Academic Center	Integration Between Schools Committee
2010-2011	Ruppin Academic Center	Academic Strategy Committee
2010-present	Ruppin Academic Center	Library Committee
2009 – 2010	School of Marine Sciences. Ruppin Academic Center.	Head of the "Maritime Sciences and Marine Environment" Program

*Appointments since last promotion

2008-2012	Ruppin Academic Center	Selection Committee for Best Teacher and Best Research Awards
2007-2017	School of Marine Sciences. Ruppin Academic Center	Teaching Committee.
2003-2006	Dept. of Economy and Management. Ruppin Academic Center.	Teaching Committee
2004-2010	Ruppin Academic Center	Research Authority Steering Committee
2003	Ruppin Academic Center	The Team for Improvement Processes, The committee for Teaching Improvement
2002	Ruppin Academic Center	Teaching Quality Committee

5. Scholarly Positions and Activities outside the Institution

a. Membership in committees of scientific associations and NGO's

Dates	**Name of Institution and Department**	**Position**
2020-Present*	Israel Water Authority	Member – Lake Kinneret and its watershed monitoring steering committee
2016*	Society for Nature Protection in Israel (*SPNI*)	Member - CEO search committee
2013-Present*	Society for Nature Protection in Israel (*SPNI*)	Member – of Nature protection sub-committee of the Executive Board (2nd term)
2013-Present*	Society for Nature Protection in Israel	Member - Executive Board (2nd term)
2012-2025	International Union for Conservation of Nature (*IUCN*)	IUCN SSC West European Amphibian Specialist Group (3rd term)
2012-Present	IUCN Amphibian Red List Authority (*RLA*)	Member of the West Asia Working Group (3rd term)
2012-2020	World Congress of Herpetology (*WCH*)	Member of the international committee (IHC)
2009-2012	Friend of the Earth Middle East (*FOME*)	Member - The Jordan River Rehabilitation international and regional committees
2014-2016	Qishon River Drainage Authority	Ecological consultant for the Agam Baruch Restoration master plan.
2011-2015	Water Authority, Israel Ministry of Environmental Protection & Nature and Parks Authority (*NPA*), Israel	Ecological consultant for the National Master Plan for Water to Nature and Landscape. Israel,

*Appointments since last promotion

2011-2015	Israel Nature Reserve and Parks Authorities (*NPA*)	Member Professional and scientific committee
2010-2012	MAARAG Israel LTER	Member of the sub-committee for Wetland Habitats Monitoring
2010-2012	Israel Ministry of the Environment	Member of the thinking panel for Climate Change Impacts on Ecosystem Services of Inland Water.
2008-2010	Society for Protection of Nature Israel.	Ecological consultant for the Rehabilitation of the West Galilee Streams
2010 - 2012	Israel Nature Reserve and Parks Authorities (*NPA*)	Ecological consultant for the assessment of the effect of Dead Sea water level decline on aquatic habitats and the invertebrate community in Einot Zukim.
2001-2006	Israel Society for Ecology & Environmental Quality Sciences (*ISEEQS*).	Executive Board Member
2002-2004	Israel Water Association	Board member of the Water Environment Forum
1999-2003	Society for Protection of Nature - Israel (*SPNI*).	Member of the zoological committee

b. Editorial and manuscript reviews

Dates	**Name of Institution and Department**	**Position**
Editorial		
2002	*Advances in Limnology*	Co Editor - special issue. Limnology and Lake Management 2000+.
1997-2001	*Ecology and Environment: Quarterly Journal for Ecology, Environment and Conservation*	Editor in chief
manuscript reviews		
2019	*Biological Journal of the Linnaean Society*	Reviewer
2016	*Science of the Total Environment*	Reviewer
2015	*PLOS ONE*	Reviewer
2013	*Basic & Applied Herpetology*	Reviewer
2011	*Molecular Ecology*	Reviewer
2003	*Israel Journal of Zoology*	Reviewer
1999	*Hydrobiologia*	Reviewer
1998	*The American Naturalist*	Reviewer

1998	*Wetland Ecology and Management*	Reviewer
1998	*Israel Journal of Zoology*	Reviewer
1993	*Ecological Applications*	Reviewer

6. Participation in Scholarly Conferences

a. Active Participation

International conferences (Last 10 years)

Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
Apr. 2-4th 2017	The 1st international conference for Israeli Conservation Science – Past, presence and future of Israeli conservation	Sde Boker, Israel	Detection of *Bd* in amphibians in northern Israel – Is it an alarm call for amphibian conservation in Israel?	Co-presenter
Apr. 2-4th 2017	The 1st international conference for Israeli Conservation Science – Past, presence and future of Israeli conservation	Sde Boker, Israel.	Relevance of new natural history insights on conservation planning for a once lost frog	Co-presenter
Sep. 26-28th 2016	The 4th International conference on artificial light at night.	Cluj-Napoca, Romania	The effects of different lightning regimes on activity rhythms of the eastern spadefoot (*Pelobates syriacus*)	Co-presenter
Aug. 15-21th 2016	The 8th World Congress of Herpetology (WCH8)	Hangzhou, China.	The return of a living fossil: resolving the natural history secrets of the rediscovered Hula painted frog *Latonia nigriventer*.	Presenter
Aug. 15-21th 2016	The 8th World Congress of Herpetology (WCH8)	Hangzhou, China	Using genetic monitoring to detect the Hula painted frog populations in the Hula Valley and testing the method efficiency for the monitoring of amphibians in Israel	Presenter
Aug. 15-21th 2016	The 8th World Congress of Herpetology (WCH8)	Hangzhou, China	Scrutinizing the survivors: population structure of the once lost Hula painted frog and implications for future conservation actions	Co-presenter

Aug. 8-14th 2012	The 7th World Congress of Herpetology (WCH7).	Vancouver, Canada	The return of the lost frog - rediscovery of the Hula Painted Frog.	Presenter
Oct.15-16th 2012	3rd International Conference for Water Technologies	Sde Boqer, Israel	Ecological restoration of rivers and streams: the Israeli perspective. . The	Presenter
May 2-5th 2011	Hydrology and ecology: Ecosystems, groundwater and surface water - pressures and options, meeting. (HydroEco 2011)	Vienna, Austria	Evaluating chemical and biological indicators for the assessment of innovative stream rehabilitation in water stressed environment	Co-presenter
May, 3-4th, 2010	Towards a living Jordan River: Strategies for rehabilitation. meeting. Friends of the Earth Middle East (FoEME).	Amman, Jordan.	Developing a regional rehabilitation strategy for the lower Jordan River: The environmental flows study).	Presenter
July 20th – Aug. 3rd, 2008	2nd annual Biodiversity Conference. Wild Spots Foundation, Inc	Banos, Ecuador	Did habitat loss and fragmentation lead to genetic isolation in the critically endangered Syrian spadefoot toad in Israel?..	Presenter
May, 13-14th 2007	International conference on monitoring and restoration of streams towards cross-borders vision	Amman, Jordan	Nutrient dynamics in Mediterranean polluted streams	Key note presenter

Local conferences (Last 10 years)

Date	**Name of Conference**	**Place of Conference**	**Subject of Lecture/Discussion**	**Role**
Oct 7th 2021	Floods in Israel	Mesada, Dead Sea & Arava Study Centere	Ecological aspects of water circulation at the Kinet Waterway	Presenter
June 20-21st 2018	The 2018 Annual Conference on Science and Environment: Challenges in Environmental Sciences: From Local to Global Scales	Rehovot, Weizmann Institute	Population genetic analysis of the recently rediscovered Hula painted frog (*Latonia nigriventer*) reveals high genetic diversity and low inbreeding.	Co-presenter

May 17th 2018	The 19th symposium in memory of Merav Ziv: Conservation Genetics: genetic diversity as a goal and tool in conservation biology	Sde Boker, Ben Gurion University of the Negev	Genetic diversity of edge populations: a case study of the eastern spadefoot toad in Israel.	Co-presenter
May 17th 2018	The 19th symposium in memory of Merav Ziv: Conservation Genetics: genetic diversity as a goal and tool in conservation biology	Sede Boker, Ben Gurion University of the Negev	Population genetic analysis of the recently rediscovered Hula painted frog (*Latonia nigriventer*) reveals high genetic diversity and low inbreeding.	Co-presenter
Dec. 25th 2016	The 53rd annual meeting of the Israeli Zoological Society (ZSI)	Tel Aviv University	Scrutinizing the survivors: Population structure of the rediscovered Hula painted frog and implications for future conservation actions	Co-presenter
Dec. 25th 2016	The 53rd annual meeting of the Israeli Zoological Society (ZSI)	Tel Aviv University	The effect of different light regimes on the activity pattern of the eastern spadefoot toad *Pelobates syriacus*.	Co-presenter
May 26th, 2016	The annual conference for Israel Science and Environment Expert committee workshop on The Harvesting of Young Mugilid Fish in Estuaries	Tel Aviv	Estuaries as a habitat for young Mugilid fish	Presenter
Apr. 13-14th, 2016	The 18th Meeting on *Innovative Studies in the Galilee and its Vicinities*.	Tel-Hai Academic College	Resolving the life history mystery of a living fossil: The Hula painted frog *Latonia nigriventer* at the Hula Valley	Presenter
Feb 9th, 2016	Symposium on "Theory and practice in ecological stream restoration: experience from Israel and the world". Yad Hanadiv,	Gan Hanadiv, Zichron Ya'akov	What characterizes the Taninim estuary in relation to other Mediterranean micro-estuaries in Israel and implications for the river rehabilitation?	Presenter
Dec. 10th	The 10th Orna Eshed symposium	Ohalo College, Qazerin	Ephemeral pools in the Golan Height	Presenter

2015	"Water in the Golan Heights – from Where to where?"			
Sep. 16-18th 2014	The annual conference for Israel Science and Environment. y.	Bar Ilan University	Ecological characteristics of water springs in the Mediterranean ecoregion of Israel	Presenter
Apr. 22nd 2014	Biology and Conservation of Reptiles and Amphibians in Israel	Tel Aviv University	The Hula Painted frog *Latonia nigriventer* – updates from the field	Presenter
Mar. 24th, 2014	Israel Water Association annual meeting	Ramat Gan,Kefar Hamakabia	Development of a model to assess environmental flow requirements for rivers in Israel	Presenter
Dec. 12 2013	River Restoration and their Status as a Component of Life Quality in Urban and Open Areas symposium. The Council for Beautiful Israel.	Tel Aviv	A model for assessing water allocation for nature	Presenter
Jan. 15th 2013	The 3rd Water Forum. Shmuel Ne'eman Institute.	Haifa, The Technion	Framework for the master plan for water to nature	Presenter
Dec. 23rd 2012	The 10th anniversary memorial to Prof. H. Mendelssohn	Tel Aviv University	The return of the lost frog - Rediscovery of the Hula Painted Frog	Keynote presenter
Apr. 24th, 2012	Nature conservation in the Judea and Samaria region – selected chapters.	Ariel University	Conservation of ephemeral pools in the Judea and Samaria region.	Presenter
Feb. 21st 2012	Symposium of the Water steering committee of ICCIC- Israel Climate Change Information Center.	Haifa University	Water to nature: The effect of global climate changes on natural water bodies	Presenter
Jun. 16th, 2011	Judea and Samaria studies – a scientific interdisciplinary conference.	Ariel University	The southern Jordan River – a significant biodiversity loss following years of alteration	Presenter
Jun, 29th, 2010	Researching the Environment at a College of Education. Workshop on environmental	Beit Berl College	Towards a living Jordan River: assessing the environmental flow required for rehabilitation of the Lower Jordan River	Presenter

	research conducted by academic staff			
June 15th, 2009	Porter School of Environmental Studies	Tel Aviv University	The littoral zone of Lake Kinneret and the Bteicha nature reservation during periods of low lake levels	Presenter

b. <u>Organization of Conferences or Sessions</u>

Date	**Name of Conference**	**Place of Conference**	**Subject of Lecture/ Role at Conference/ Comments**	**Role**
2016	The 8th World Congress of Herpetology (WCH8)	Hangzhou, China	The international organizing committee	Member
2015	The 52nd annual meeting of Israel Zoological Society	Michmoret, Israel	The organizing committee	Chairman
2008	The 45th annual meeting of Israel Zoological Society (ZSI)	Michmoret, Israel	The organizing committee	Chairman

7. <u>Invited Lectures\Colloquium Talks</u>

Date	**Place of Lecture**	**Name of Forum**	**Presentation/Comments**
Dec. 11th 2019	Madison, Wisconsin, USA	The Center for Limnology and Dept. of Water Chemistry joint Informal Seminar. UW Madison,	The return of the Hula painted frog: Revealing the mysteries of a living fossil
Feb 1st, 2016	Zemach, Israel	Yad Ben Zvi and Kinneret Academic College	Genetic conservation of endangered amphibians in the Lake Kinneret watershed: From the eastern spadefoot toad to the Hula painted frog.
May 30th, 2006	Be'er Sheba, Israel	Mitrani Dept. of Desert Ecology, Jacob Blaustein Institute for Desert Research, Ben-Gurion University	Nutrient dynamics in Mediterranean streams: the Yarqon and other polluted streams.

Nov. 16th 2004	Jerusalem, Israel	Dept. of Physical Sciences, The Hebrew University of Jerusalem	Nutrient dynamics in the coastal streams of Israel
June. 13th, 2004	Jerusalem, Israel	Dept. of Ecology, Systematic and Evolution. The Hebrew University of Jerusalem	Stream restoration: nutrient dynamics in the coastal streams of Israel.
Dec. 9th, 2003	Ramat Gan, Israel	Dept. of Geography. Bar-Ilan University.	Israel coastal streams as natural ecosystems.
Oct. 8th, 2002	Berlin, Germany	MONERIS special workshop. IGP Berlin	Hydrological and hydro-morphological conditions in the Yarqon Stream, Israel
June 22th , 2001	Barcelona, Spain	Dept. of Ecology. University of Barcelona	The effect of habitat quality on the fish assemblages in the Yarqon Stream, Israel.
May 9th, 2001	Ktura, Israel	The Arava Institute for Environmental Studies	The hydrology, ecology and management of the Yarqon River.
June 12, 1997	Tel-Aviv, Israel	School of Education. Tel-Aviv University.	The water crisis in Israel.
Nov. 28th, 1996	Rehovot, Israel	The Saegram Center for Soil and Water Sciences, Faculty of Agricultural, Food and Environmental Quality Sciences, Rehovot. The Hebrew University of Jerusalem	The effect of the lithology on the fish assemblages in lakes: case studies from Lake Kinneret, Israel and north temperate lakes in Wisconsin, USA
Oct. 14th, 1995	University of Wisconsin, Madison, USA.	The Center for Limnology and Dept. of Water Chemistry joint informal seminar. UW Madison	Fish - macrophyte interactions: what works, what doesn't and the issue of scale
Nov 31st, 1994	Oranim, Israel	Dept. of Biology. University of Haifa	Macrophyte management to improve fishery quality in Wisconsin lakes: improving fish growth rate by changing the physical structure of their habitat and predator – prey interactions.
Dec. 19th, 1994	Jerusalem, Israel	Dept. of Evolution, Systematic and Ecology. The	Macrophyte fish relationships in the littoral zone of Wisconsin lakes: a study of habitat heterogeneity and fish community structure

		Hebrew University of Jerusalem	
Dec. 20th, 1994	Sde' Boker, Israel	J. Bloustein Institute for Desert Research, Ben-Gurion University of the Negev,	The importance of physical structure to the fish assemblage in the littoral zone of lakes.
Dec. 14th, 1994	Tel Aviv, Israel	Zoology Dept. George S. Wise Faculty of Life Sciences. Tel Aviv University	Macrophyte management as a tool to improve fishery quality in lakes: enhancing fish growth through changing habitat structure and predator – prey interactions.
Dec. 7th, 1994	Tabha, Israel	Yigal Alon Kinneret Limnological Laboratory, Israel Oceanographic & Limnological Research	Managing macrophytes to improve fish growth: the effect of macrophyte structure on predator prey interactions of largemouth bass and bluegill sunfish.
June 29th, 1994	Cleveland Wisconsin, USA	Manitowoc Fish and Game Association	An overview of a replicated whole-lake Littoral Zone Project (Aquatic Macrophyte Management
May 7th, 1993	Madison, Wisconsin, USA	Zoology Colloquium, Dept. of Zoology. UW Madison	Where have all the frogs and toads gone? The case study of the Syrian spadefoot toad
Feb. 14th, 1993	Madison, Wisconsin, USA	The Center for Limnology and Dept. of Water Chemistry joint Informal Seminar. UW Madison,	The effect of water level fluctuations on the structure and function of the littoral zone in Lake Kinneret, Israel

8. Research Grants

a. Grants Awarded (Last 10 years)

Role in Research	Co-Researchers	Topic	Founded by/Amount	Year
PI*	Tom Topaz	Dynamics and toxicity of organic pollutants in ephemeral pools of Israel	KKL 250,000 NIS	2021-2023
PI*		A survey of the Hula painted frog distribution in the Hula Valley	Open Areas Foundation 330,000 NIS	2018-2019
PI*		Sensing water quality in the Yarqon river estuary	130,000 NIS	2018-2019
PI*		Spatial distribution of the pathogen *Batrachochytrium dendrobatidis* in different	Ruppin Academic Center Internal Research Fund.	2018

		anuran amphibian species in Israel	15,000 NIS.	
Co-PI*	Prof. Benny Hefetz, Prof. Gitai Yahel and Dr. Yair Suari,	Estuary Management to Reduce Pollution of the Mediterranean Sea	Yad Hanadiv. 2,475,000 NIS	2016-2019
PI*		Restoration of the Hula Painted Frog	Ruppin Academic Center Internal Research Fund. 15,000 NIS.	2016
Co- PI*	Dr. Sharon Renan and Prof. Eli Geffen	Detecting presence of the rediscovered Hula painted frog and other threatened amphibians using environmental DNA	Israel Nature Reserve and Parks Authorities. 15,000$	2015-2016
PI*	Prof. Eli Geffen	Management program for the conservation of the recently rediscovered Hula painted frog *Latonia nigriventer*.	Wildlife Without Borders – Amphibian Decline Program. US Fish and Wildlife Service. 25,000$.	2014
Co-PI*	Prof. Eli Geffen**,** Dr. Sharon Renan	Detecting presence of the rediscovered Hula painted frog and other threatened amphibians using environmental DNA.	Israel Nature Reserve and Parks Authorities. 28,800$	2014
Co-PI	Dr. Gitai Yahel and Dr. Yair Suari	Rehabilitation of micro estuaries along the Mediterranean coast of Israel.	Yad Hanadiv. 310,000$	2013 - 2015
PI	Prof. Eli Geffen	The occurrence of *Ranavirus* (RV) among amphibian populations and causes for swollen tadpoles of the tree frog *Hyla savignyi* and the green toad *Pseudepidalea virdis* found in Israel.	Israel Nature Reserve and Parks Authorities 115,000 NIS	2011
PI		Assessing the ecological effect of water circulating on the Upper Yarqon River.	Yarqon River Authority. 370,000 NIS.	2010-2017
PI		Defining environmental flows required for the rehabilitation of the Lower Jordan River, based on river habitat evaluation	Friend of the Earth Middle East. 70,000 NIS.	2008-2009
PI	Prof. Menachem Goren	The effect of aquatic recreation activity on macroinvertebrate and fish assemblage in water bodies of the Hula Valley	Israel Nature Reserve and Parks Authorities. 80,000 NIS	2006-2008

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*Grants received since last promotion

b. <u>Submission of Research Proposals – Pending</u>

Role in Research	Co-Researchers	Topic	Submitted to/Amount	Year

c. <u>Submission of Research Proposals – Not Funded</u>

Role in Research	Co-Researchers	Topic	Submitted to	Year	Score
PI		Two novel approaches to profiling the genetic structure of amphibian populations by analyzing a few buckets full of water	ISF/ Resubmission	2019	
PI		Two novel approaches to profiling the genetic structure of amphibian populations by analyzing a few buckets full of water	ISF 1,133,732 NIS	2018	
Co-PI	Vences, M., Geffen E. Hofreiter M., Rabinovich R.	Inferring the evolutionary history and future fate of a relict amphibian from Israel using genomes, paleogenomes and environmental DNA	Volkswagen Stifung Lower Saxony-Israel funding program /266,900 Euro	2018	
Co-PI	Prof. Miguel Vences and Prof Eli Geffen	Inferring the evolutionary history fate of a relict amphibian from Israel using genomes, paleo-genomes and environmental DNA	GIF 204,000 Euros	2017-20 18	Excellent
PI	Prof. Eli Geffen	Management program for the conservation of the recently rediscovered Hula painted frog	Wildlife Without Borders – Amphibian Decline Program. US	2015	

		Latonia nigriventer	Fish and Wildlife		
Co-PI	Prof. Miguel Vences, Prof. Eli Geffen	Does fluctuation selection drive genetic variation among amphibian tadpoles along edge-core gradients?	GIF	2013	Excellent
PI	Prof. Adam Friedman	Selection variation among amphibian tadpoles along a core-edge distribution gradient	ISF	2012	

9. Scholarships, Awards and Prizes

Year	**Name of award**	**Awarded by**	**Sum**
2017	Research and Teaching Excellency Award	Ruppin Academic Center	24,000 NIS
2012	Research and Teaching Excellency Award	Ruppin Academic Center	24,000 NIS
2011	Research Excellency Award	Ruppin Academic Center	21,000 NIS
2010	Persistent Teaching Excellency Award	Ruppin Academic Center	
2009	Teaching Excellency Award. Ruppin Academic Center	Ruppin Academic Center	21,000 NIS
2001	Special Travel Award.	Beit-Berl college	3,500$
2000	Research Encouragement Fellowship	Bet-Berl college.	9,000 NIS
1996	Nacht Award for best study in Ichthyology	Fauna & Flora Palaestina Committee, The Israel Academy of Sciences and Humanities.	4,000 NIS
1993-1994	Guyer Postdoctoral Research Fellowship,	Dept. of Zoology, UW Madison	50,000S

10. Teaching

a. Courses Taught in Recent Years

Year	Name of Course	Type of Course Lecture/Seminar/Workshop/High Learn Course/Introduction Course (*Institution*)	Degree	Number of Students
2019-present	M.Sc. Seminar	Seminar (Faculty of Marine Sciences – *FMS*)	M.Sc	24
2018-present	Dynamics of Marine Populations & Communities	Lecture and Seminar (*FMS*)	M.Sc.	13
2018 - present	Restoration of Marine Ecosystems	Lecture and Seminar (*FMS*)	M.Sc.	14
2015-2018	Pollution and Rehabilitation of Marine ecosystems	Seminar (*FMS*)	M.A.	20
2011-2013	Essentials in Introductory Ecology: the Israeli Perspective	Lecture & Seminar (Porter School of the Environment, Tel Aviv University – *TAU*)	M.A. (Foreign students program)	20
2007-2015	Chapters in Introductory Ecology	Lecture (*TAU*)	B.A & M.A	50
2006	Issues in Environmental Quality	Lecture (*TAU*)	B.Sc.	
2004-2009	Issues in Environmental Quality in Israel	Lecture (Ruppin Academic Center - *RAC*)	B.A.	45
2003-2013	Limnology of Lake Kinneret	Lecture (Faculty of Marine Sciences - *FMS*)	B.Sc.	75
2003-2016	Global Aspects of Environmental Quality	Lecture (*RAC*)	B.A.	85
2002-2009	Environmental Issues of Israel	Lecture (*RAC*)	B.A.	45
2003-2013	Limnology of Lake Kinneret	Lecture (*SMS*)	B.Sc.	75

2001-present	Ecology of the Coastal Streams of Israel	Lecture (*FMS*)	B.Sc.	75
2001-present	Administration of Nature Conservation;	Lecture (*FMS*)	B.Sc.	75
2002-2014	Introduction to Ecology	Lecture (*RAC*)	B.A.	65
2002-2016	Human involvement in the Environment	Introductory Course (*RAC*)	B.A.	70
2000-2006	Interactions of Man and the Environment	Seminar (*RAC*)	M.B.A.	30
1999-2006	Biological Aspects of Environmental Quality	Lecture (*TAU*)	B.Sc.	55
1999-2006	The Fauna of Israel	Lecture & Field trips (*TAU*)	B.Sc.	25
1998-present	Introduction to Ecology	Introduction Course (*FMS*)	B.Sc.	120
1997-2009	Invertebrate Zoology	Lecture & Lab Beit Berl College - *BBC*)	B.Ed.	20
1996-1997	Environmental Quality	Lecture & Field trips (*TAU*)	B.Sc.	20
1995-1996	Methods of Environmental Research	Lecture (*TAU*)	B.Sc.	20
1995-2009	Soil Ecology	Lecture (*BBC*)	B.Ed.	15
1995-2009	Water ecology	Lecture (*BBC*)	B.Ed.	15

b. <u>Supervision of Graduate Students</u>

<u>Ph.D. Students and Post-doc fellows</u>

Name of Student	**Title of Thesis**	**Degree**	**Date of Completion/in Progress**	**Students` Achievements**
Dr. Lee Shaish	Dynamics of bio-geochemical processes in Mediterranean stream micro-estuaries in Israel (Co-sponsor – Prof. Gitay Yahel, *RAC*).	Post Doc.	2014-2015	1 scientific journal paper (C26)
Dr. Sharon Renan	Detecting presence of the rediscovered Hula painted frog and other threatened amphibians using	Post Doc.	2015-2016	2 scientific journal papers (1 published (C27);1 in

	environmental DNA. (Co-sponsor – Prof. Eli Geffen *TAU*).			preparation)
Dr. Ronith Gila Bina Perl	Integrating de novo genome, aDNA and eDNA sequencing to decipher the historical demography of the Hula painted frog, a living fossil from northern Israel	Post Doc.	2018-In Progress	2 conference abstracts
Dr. Elron, Eldad.	Ecological aspects of amphibian decline in Israel (Co-instructor – Prof. Avital Gasith *TAU*)	Ph.D.	2003-2008	4 conference abstracts
Dr. Ronith Gila Bina Perl	Large scale to fine scale approaches to amphibian conservation (Co-instructor – Prof. Miguel Vences University of Braunschweig. Germany)	Ph.D.	2013- 2018	4 scientific journal papers (C24, C27, C28, C29)
Cohen Orly	Selection variation on amphibian tadpoles along the core-edge gradient. (Co-instructor – Prof. Eli Geffen *TAU*).	Ph.D.	2013-2018 Dissertation was submitted	2 scientific journal papers (C18, C35), 1 scientific papers in review (C1-1).
Balon. Yael	Biological rhythms of the eastern spadefoot toad (Co-instructor – Prof. Noga Kronfeld-Schor *TAU*).	Ph.D	2017- In Progress	2 conference papers

M.Sc. Students

Name of Student	**Title of Thesis**	**Degree**	**Date of Completion/in Progress**	**Students` Achievements**
Eldar Maya	Differences in activity rhythms of northern and southern populations of the eastern spadefoot toad (*Pelobates syriacus*). (Co-instructor – Prof. Noga Kronfeld-Schor *TAU*).	M.Sc	2020– In Progress	
Jurkowicz Goldie	Detection of *Bsal* infection presence and distribution pattern in Israeli populations of *Salamandra infraimmaculata*. (Co-instructor – Dr. Imad Shans *Haifa U*niversity)	M.Sc	2019 – 2021	1 paper submitted to a scientific journal (C1.2)
Nissim Yoni	Defining the breeding cycle of *Latonia nigriventer* using steroid hormones	M.Sc	2019 – In Progress	

Mesika, Gal	The taxonomic status of *Hyla* sp. In Israel	M.Sc.	2018 - In progress	
Malul, Yoav	Nitrogen compounds dynamics in a Mediterranean micro estuary (Co-instructor – Prof. Michael Krom, *Haifa U*).	M.Sc.	2018 - In progress	
Gober, Shahar.	Physical and chemical dynamics in an open Mediterranean micro-estuary: the case of the Yarqon River estuary. (Co-instructor – Dr. Ami Nishri, *Lake Kinneret Lab.*).	M.Sc.	2017- In progress	
Lubin, Hadas	Detection *Bd* infection in Israeli amphibian: species and spatial distribution.	M.Sc.	2017- In progress	
Gavrieli, Nadin	Water circulating and ecosystem functioning at the upper segment of the Yarqon River	M.Sc.	2017- In progress	
David, David	Captive breeding program for the eastern spadefoot toad: Stimulating reproduction in populations in captivity. (Co-instructor – Prof. Shai Meriri,, *TAU*).	M.Sc.	2016- In progress	
Avidor, Ela	The effect of habitat characteristics on the spatial distribution of the Hula painted frog *Latonia nigriventer*. (Co-supervisor – Prof. Eli Geffen. *TAU*).	M.Sc.	2016-2018	3 excellence Awards and fellowships. 1 scientific papers in preparation
Balon. Yael	The effect of different light regimes on activity rhythms of the eastern spadefoot toad (*Pelobates syriacus*). (Co-instructor – Prof. Noga Kronfeld-Schor, *TAU*).	M.Sc.	2014- 2017	1 conference paper (E14)
Grossbard, Shira	Vernal Pools as a base for developing Urban Wildlife urban nature (Co-instructor – Dr.. Daniel E. Orenstine, *Technion*).	M.Sc.	2013- 2017	
Weisman, Ishai	Occurrence of Ranavirus in amphibian populations in Israel. (Co-supervisor – Prof. Eli Geffen, *TAU*).	M.Sc.	2011-2013	1 final scientific report
Avni, Nimrod	Evaluating stream restoration using nutrient dynamics metrics: case study in the Yarqon stream	M.Sc.	2010-2013	1 scientific journal paper (C22)

	(Co-supervisor – Dr.. Shay Arnon, *BGU*).			
Munwes-Kalski, Inbar	The genetic structure of the Syrian spadefoot toad *Pelobates syriacus* in Israel. (Co-supervisor – Prof. Eli Geffen, *TAU*).	M.Sc.	2009-2011	2 scientific papers (C20, C22)
Taub-Korem, Miri	The effect of recreational activity on ecosystem structure and function of pristine streams in northern Israel. (Co-supervisor – Prof. Menachem Goren, *TAU*).	M.Sc.	2008-2010	1 published final scientific report
Vitlin Rabinski, Irina	The ecology of soft sediment biota at the Yarqon stream. (Co-supervisor – Prof. Avital Gasith, *TAU*).	M.Sc.	2004-2007	Contribution to 2 scientific journal papers (C22, C24) and 1 book chapter (D6);

PUBLICATIONS

A. M.Sc. Thesis

Gafny, S. 1986. The Biology and Ecology of the Syrian spadefoot toad *Pelobates syriacus* in Israel. M.SC. thesis. Tel Aviv University. 163 Pp.

Finding from this thesis were integrated into several scientific publications including: C14; c16; D7; D8; D10; D11; D12; K2.

Ph.D.Dissertation

Gafny, S. 1992. The Effect of Substrate Type on the Structure and Function of the Littoral Zone of Lake Kinneret, Israel. Ph.D. dissertation. Tel Aviv University. 110 Pp.

Scientific publications based on this dissertation: C2; C3; C6; C7; C9; C10; D1; D3.

B. Scientific Books (Refereed)

Edited Books and Special Journal Issues – Published

1. Coeditor: Berman, T., Hambright, K.D., Gat, J., **Gafny, S.**, Sulenik A. and Tilzer M., (eds.). 2000. *Limnology and lake management 2000+*. Arch. Hydrobiol. Advanc. Limnol. Spec. Issues, E. Schweizerbart'sche Verlagsbuchhandlung. Stuttgart. Vol 55. 593 pp. . (IF=1.140; JR: Ecology 148/223; ISBN: 351-0470575).

C. Articles in Refereed Journals

Published

1. Geffen, E., **Gafny**, **S.** and Gasith, A. 1988. Contribution to the knowledge on the biology of the banded newt *Triturus vitattus* in Israel. *Isr. J. Zool.* 34(3)**:** 213-223. (IF=0.610; 18 citations).

   - As under graduate students, S.G. and E.G. carried out the project under the supervision of A.G, .ran the data analysis, did the interpretation of the results and drafted the manuscript.

2. **Gafny, S.,** Gasith, A. and Goren, M. 1992. Effect of water level fluctuations on shore spawning of *Mirogrex terraesanctae* (Cyprinidae) in Lake Kinneret, Israel. *J. Fish Biol.* 41**:** 863-871. **(**IF=1.734; SJR=0.862; JR: Aquatic Sciences, 51/218, Q1; 96 citations).

   - As a Ph.D. student S.G. carried out the study under the supervision of A.G, collected field data, ran the data analysis, did the interpretation of the results and drafted the manuscript.

3. **Gafny, S.** and Gasith, A. 1993. Effect of low water level on the water quality of the shallow littoral zone of Lake Kinneret. *Wat. Sci. Tech.* 27**:** 363-371. (IF=1.057; SJR=0.886; JR: Water Science & Technology, 17/111, Q1; 13 citations).

- As a Ph.D. student S.G. carried out the study under the supervision of A.G, collected field data, ran the data analysis, did the interpretation of the results and drafted the manuscript.

4. Carpenter, S.R., Cunningham, P., **Gafny**, **S.,** Munoz del Rio, A., Nibbelink, N., Pellett, T., Storlie C., and Trebitz, A. 1995. Response of bluegill to habitat manipulations: Power to detect effects. *North Am. J. of Fisheries Manage.* 15: 519-527. (IF=1.203; SJR=0.699; JR: Fisheries, 17/50, Q2; 31 citations)[Δ].

- As a post doc. S.G. was the coordinated the study, under the sponsorship of S.R.C., Together with other team members, S.G. collected field data from over 50 lakes throughout Wisconsin, was involved in data analysis and interpretation and drafted the manuscript.

5. Olson, M.H., Carpenter, S.R., Cunningham, P., **Gafny**, **S.,** Herwig, B.R., Nibbelink, N.P., Pellet, T., Storlie, C., Trebitz, A.S. and Wilson, K.A. 1998. Managing macrophytes to improve fish growth: a multi-lake experiment. *Fisheries.* 23**:** 6-12. DOI: 0.1577/1548446(1998)023<0006:MMTIFG>2.0.CO;2. (IF=3.077; SJR= ; JR: Fisheries, 103/218; Q1; 139 citations).

- As a post doc. S.G. was the coordinated the study, under the sponsorship of S.R.C., Together with other team members, S.G. collected field data from over 50 lakes throughout Wisconsin, was involved in data analysis and interpretation and drafted the manuscript.

6. **Gafny, S.** and Gasith, A. 1999. Spatially and temporally sporadic appearance of macrophytes in the littoral zone of Lake Kinneret, Israel: Taking advantage of a window of opportunity. *Aquatic Botany* 62: 249-267. (IF=2.087; SJR=0.903; JR: Plant Science, 72/218; Q1; 91 citations).

- S.G. carried out the study, collected field data, ran the data analysis, did the interpretation of the results and drafted the manuscript.

[Δ] This paper was selected by the "American Fisheries Society" as one of the five best papers of the year for 1995.

7. **Gafny, S.** and Gasith, A. 2000. Spatial and temporal variation in the standing biomass and community structure of emergent macrophytes: effect of water level fluctuations. *Arch. Hydrobiol. Spec. Issues Advanc. Limnol.* 55: 301-316. (IF=1.41; JR: Ecology, 148/223, Q3; 14 citations).

   - S.G. carried out the study, collected field data, ran the data analysis, did the interpretation of the results and drafted the manuscript.

8. **Gafny, S.,** Goren, M. and Gasith, A. 2000 Habitat conditions and fish assemblage in a coastal Mediterranean stream (Yarqon, Israel) receiving domestic effluent. *Hydrobiologia.* 422/423: 319-330. (IF=2.212; SJR=0.539; JR: Water Science & Technology, 49/218; Q2; 91 citations).

   - S.G. carried out the study, collected field data, ran the data analysis, did the interpretation of the results and drafted the manuscript.

9. **Gafny, S.** and Gasith, A. 2000. Spatial distribution and temporal dynamics of the epilithic community in the littoral zone of Lake Kinneret, Israel. *Internationale Vereinigung für theoretische und angewandte Limnologie.* 27**:** 216-222. ($IF_{Inland\ Waters}$=0.964; SJR=0.465; JR Water Science & Technology 61/266; Q2; 7 citations).

   - S.G. carried out the study, collected field data, ran the data analysis, did the interpretation of the results and drafted the manuscript.

10. Gasith, A., **Gafny, S.** and Goren, M. 2000. Response of the fish assemblage of rocky habitats to lake level fluctuations: possible effect of varying habitat choice. *Arch. Hydrobiol. Spec. Issues Advanc. Limnol.* 55**:** 317-331. (IF=1.141; SJR=0.465; JR: Water Science & Technology, 148/223, Q2; 12 citations).

    - S.G. carried out the study, collected field data, ran the data analysis, did the interpretation of the results and drafted the manuscript.

11. Solimini, A.G., Singer, G.A., Marti, E., Battin, T.J., **Gafny, S.,** Gerino, M., Morais, M., Puig, M.A., Push, M., Ruggiero, A., Voreadou, C. and Sabater, F. 2005. Nutrient transient storage by the invertebrate assemblage in streams with contrasting nutrient loads. *Internationale Vereinigung für theoretische und angewandte Limnologie.* 29**:** 807-810. ($IF_{Inland\ Waters}$=0.964; SJR=0.465; JR Water Science & Technology 61/266; Q2; 3 citation).

    - S.G. collected the samples in Israel, coordinated the Israeli part of the project took and part in drafting the manuscript

12. Morais, M., Pinto, P., Pedro, A., Battin, T., **Gafny, S**., Gerino, M., Marti, E., Puig, M., Pusch, M., Solimini, A., Voreadou, C., Sabater, F. and Usseglio-Polatera, P. 2009. Relationships among macroinvertebrate community structure, bio/ecological trait profiles, and environmental descriptors in European human-altered streams. *Internationale Vereinigung für theoretische und angewandte Limnologie,* 30(8): 1234-1238. ($IF_{Inland\ Waters}$=0.964; SJR=0.465; JR Water Science & Technology 61/266; Q2; 4 citations).

- S.G. collected the samples in Israel, coordinated the Israeli part of the project and took part in drafting the manuscript

13. Zohar, I., Belmaker, M., Nadel, D., **Gafny, S.,** Goren, M., Hershkovitz, I. and Dayan, T. 2008. The living and the dead: How do taphonomic processes modify relative abundance and skeletal completeness of freshwater fish. *Palaeogeography, Palaeoclimatology, Palaeoecology.* 258**:** 292-316. (IF=3.162 SJR=1.79; JR: Ecology, Evolution, Behavior and Systematics, 80/620; Q1; 44 citations) [ΔΔ].

- S.G. collected and provided all fish data for the study and contributed to data interpretation and writing of the manuscript .

14. Munwes, I., Geffen, E., Roll, U., Friedmann, A., Daya, A., Tikochinski, Y. and **Gafny**, **S.** 2010. The change in genetic diversity down the core-edge gradient in the eastern spadefoot toad (*Pelobates syriacus*). *Molecular Ecology* 19**:** 2675-2689. (IF=6.49; SJR=3.564; JR: Ecology, Evolution, Behavior & Systematics 21/618; Q1; 54 citations).

- S.G. initiated and coordinated the project, and with I.M. carried on all the biological field samples dor the study. Together with E.G., S.G. instructed the M.Sc. project of I.M., which was carried out in the labs of the faculty for Marine Sciences in Michmoret and contributed to data interpretation and writing of the manuscript .

15. **Gafny, S.**, Talozi, S. Al-Sheikh, B. and Ya'ari, E. 2010. Towards a living Jordan River: an environmental report on the rehabilitation of the lower Jordan River. *Fisheries and Fish Breeding in Israel*. 3-4**:** 1447-1556. (IF=0.212; JR, : Fisheries, Q4: 118/157).

- S.G. was the ecological consultant of the project carried on all the limnologic and biological field samples and wrote the manuscript.

[ΔΔ] This paper was selected by "*Science Direct*" as one of the top 25 hottest papers published in the category of Earth and Planetary Sciences published in January to March 2008

16. Munwes, I., E. Geffen, A. Friedmann, Y. Tikochinski, and **S. Gafny**. 2011. Variation in repeat length and heteroplasmy of the mitochondrial DNA control region along a core–edge gradient in the eastern spadefoot toad (*Pelobates syriacus*). *Molecular Ecology*, 20**:** 2878-2887. (IF=6.49; JR: IF=6.49; SJR=3.508; JR: Ecology, Evolution, Behavior & Systematics 21/618; Q1; 9 citations).

- S.G. initiated and coordinated the project, and with I.M. carried on all the biological field samples dor the study. Together with E.G., S.G. instructed the M.Sc. project of I.M., which was carried out in the labs of the faculty for Marine Sciences in Michmoret and contributed to data interpretation and writing of the manuscript .

17. Gasith, A., **Gafny, S.**, Hershkovic, Y. Goldstein, H., and Galil, B.S. 2011. The invasive freshwater medusa *Craspedacusta sowerbii* Lankester, 1880 (Hydrozoa: Olindiidae) in Israel. *Aquatic Invasions* 6; Suppl. 1:139–144. (IF=3.09 ; SJR=0.659; JR; Water Science and Technology 67/266: 23 citations).

- S.G. is scientifically responsible for the discovery of *Craspedacusta sowerbii* at the Golan Heights in Israel and collected the first specimens used for the study, S.G. carried out the ecological portion of the study in the Golan Heights, S.G. also contributed to data interpretation and writing of the manuscript

Publications since Last Promotion

18. Biton, R., Geffen, E., Vences, M., Cohen, O., Bailon, S., Rabinovich, R., Malka, Y., Oron, T., Boistel, R. . Brumfeld, V. and **Gafny, S.** 2013. The rediscovered Hula painted frog is a living fossil. *NATURE Communication*. 4:1959. DOI: 10.1038/ncomms2959. (IF=11.470: SJR=6.206; JR: Biochemistry, Genetics and Molecular Biology (miscellaneous), 58/2124, Q1; 68 citations)[ΔΔΔ].*

- S.G. is scientifically responsible for the rediscovery of *Latonia nigriventer*. S.G. initiated and designed the study, collected the samples in the field, coordinated the *Latonia* project and together with E.G. contributed to data interpretation and writing of the manuscript .

[ΔΔΔ] This paper was selected by "*Nature Communication*" as "highlight of the week", included as editor's choice in "*Science*" magazine (July 7th 2013) and was covered in "*Nature News*", "*Science News*" and more than 330 other global public media items.

19. Gutierrez-Rodriguez J., Salvi, D., Geffen E., **Gafny, S.** and Martinez-Solano, Í. 2014. Isolation and characterization of novel polymorphic microsatellite loci in Iberian painted frogs (*Discoglossus galganoi* and *D. jeanneae*), with data on cross-species amplification in *Discoglossus* and *Latonia* (Alytidae). *Herpetological Journal* 24: 261-265. (IF= 1.08; SJR=0.511; JR: Animal Sciences & Zoology, 192/406, Q2; 7 citations). *

    - S.G. collected the samples in Israel, coordinated the Israeli part of the project took part in drafting the manuscript

20. Sternberg, M., Gabay, O., Angel, D., Barneah, O., **Gafny, S.,** Gasith, A., Grünzweig, J.M., Hershkovitz4, Y., Alvaro I., Milstein, D., Rilov, G., Steinberger, Y. and Zohary. T. 2014. Impacts of climate change on biodiversity in Israel – an expert assessment approach. *Regional Environmental Change*. DOI 10.1007/s10113-014-0675-z. (IF=2.260; SJR=1.22; JR: Global and Planetary Change, 24/77, Q2; 28 citations).*

    - S.G. was the aquatic ecologist of the team that conducted the project, provided data on aquatic ecosystems and together with A.G. wrote the part on the expected climate change effect on aquatic ecosystems.

21. Gabay, O., Sternberg, M., Angel, D., Barnea, O., Goren, M., Gasith, A., **Gafny, S**., Greenzweig Z., Hershkowitz, Y., Zohary T., Yom Tov, Y., Alvaro, I., Milstein, D., Rilov, G. and Sterenberg, Y. 2014. Threats to Israel's biodiversity in a climate changes era – a call for the establishment of a national center for climate change research. *Ecology & Environment*. 5:161-171. * (In Hebrew)

    - S.G. was the aquatic ecologist of the team that conducted the project, provided data on aquatic ecosystems and together with A.G. wrote the part on the expected climate change effect on aquatic ecosystems

22. Arnon, S., Avni, N, and **Gafny, S.** 2015. Nitrogen and phosphorus uptake in highly regulated Mediterranean stream receiving treated wastewater. *Aquatic Sciences*. 77:623-637. (IF=2.712; SJR=1.148; Water Science and Technology, 32/195, Q1; 28 citations). *

    - S.G. and S.A. initiated and coordinated the project, carried on all the biological field samples, took part in conducting the hydrological field samples, conducted the biological analysis of the macro-invertebrate samples, ran the statistical analyses of biological date, and together with S.A. instructed the M.Sc. project of N.A. and and contributed to data interpretation and writing of the manuscript

23. Bitton, R., Boistel, R., Rabinovich, R., **Gafny, S.**, Brumfeld, V. and Bailon, S. 2016. New osteological observations of *Latonia nigriventer* (Mendelssohn and Steinitz, 1943). *Journal of*

Morphology. 277: 1131-1145. (IF=1.735; SJR=0.877; JR: Animal Science and Zoology, 66/406, Q1; 21 citations). *

- S.G. collected and provided the data of current *Latonia nigriventer* specimens and and contributed to data interpretation and writing of the manuscript

24. Perl1, R.G., **Gafny, S.,** Malka, Y., Renan, S., Woodhams, D., Rollins-Smith, L,. Pask, J.D. Bletz, M. Geffen, E. and Vences, M. 2017. Natural history and conservation of the rediscovered Hula painted frog, *Latonia nigriventer***.** *Contributions to Zoology.* 86: 11-36. (IF=1.84; SJR=0.937; JR: Animal Science and Zoology, 92/349, Q1; 18 citations). *

    - S.G. initiated and designed the study, obtained US Fish and wildlife research grant, collected part of the samples in the field, coordinated the project and together with M.V. instructed the Ph.D. project of B.P. and a together with M.V. and E.G. drafted the manuscript.

25. Yao, J., Colas, F., Solimini, A.G., Battin, T.J., **Gafny, S.**, Morais, M., Puig, M. A., Marti E., Pusch, M.T., Voreadou, C., Sabater, F., Julien, Sanchez-P erez, F.M.| Sauvage, S.,| Vervier, P. and Gerino, M. 2017. Macroinvertebrate community traits and nitrate removal in stream sediments. *Freshwater Biology*. 62: 929–944. (IF=2.933; SJR= 1.671; JR: Aquatic Sciences, 6/218; Q1; 14 citations). *

    - S.G. conducted the Israeli part of the international STREAMES team, took part in writing the EC grant, collected hydrological and biological samples in Israel, coordinated the Israeli part of the project, provided hydrological and biological data from the Yarqon River, and together with other co-authors reviewed the manuscript.

26. Suari, Y., Shaish, L., **Gafny, S.,** Amit, T., Gilboa, M., Brukowitz, E. and Yahel, G. 2017.Long lasting oxygen stress in the Alexander stream estuary is driven by high nutrient loads and interactions with the marine ecosystem. *Ecology and Environment* . 8: 44-52)* (In Hebrew)
    - S.G. and G.Y. drafted the grant proposal for the RIME project (co-PI's), obtained the funding and conducted the RIME project, took part in collecting the field data, carried on the data analysis and reviewed the manuscript.

27. Renan, S., **Gafny, S.,** Perl, B., Roll, U., Malka, Y., Vences, M. and Geffen, E. 2017*. Living quarters of a living fossil - Uncovering the current distribution pattern of the rediscovered Hula painted frog (*Latonia nigriventer*) using environmental DNA. *Molecular Ecology*. 26: 6801-6812. (IF=6.131. SJR=3.057; JR: Ecology, Evolution, Behavior & Systematics; Q1; 17 citation)*.

- S.G. and E.G. initiated and designed the study, obtained US Fish and wildlife research grant, and instructed S.R. in her Post. Doc. study. S.G, S.R. and E.G. collected the samples in the field, coordinated the project and together drafted the manuscript.

28. Perl, R.G.B. Geffen, E., Malka, Y., Barocas, A., Renan, S., Vences, M., and **Gafny, S.** 2018*. Population genetic analysis of the recently rediscovered Hula painted frog (*Latonia nigriventer*) reveals high genetic diversity and low inbreeding. *Scientific Reports*, 8: 5588 | DOI:10.1038/s41598-018-23587-w (IF= 4.259; SJR=1.414; JR: Multidisciplinary, 6/120 Q1; 8 citations)*.

- S.G. initiated and designed the study, obtained US Fish and wildlife research grant, collected part of the samples in the field, coordinated the project and together with M.V. instructed the Ph.D. project of B.P. and a together with M.V. and E.G. and contributed to data interpretation and writing of the manuscript

29. Perl1, R.G.B., **Gafny, S.,** Geffen, E., and Vences, M. 2018. Notes on post-metamorphic colour pattern changes in the Hula painted frog – how realistic is a re-identification of juveniles? *Herpetology Notes* 11: 475-480. (IF=0.51; SJR=0.274; JR: 234/367 Animal Science and Zoology, Q3; 2 citations)*.

- S.G. initiated and designed the study, collected part of the samples in the field, coordinated the project and together with M.V. instructed the Ph.D. project of B.P. and together with M.V. and E.G. and contributed to data interpretation and writing of the manuscript

30. Datry T., Foulquier A., Corti R., von Schiller D., Tockner K., Mendoza-Lera C., Clément J.C., Gücker B., Moleón M., Albariño R., Allen D.C., Altermatt F., Arce M.I., Arnon S., Banas D., Banegas-Medina A., Beller E., Blanchette M.L., Blanco-Libreros J.F., Blessing J.J., Boëchat I.G., Boersma K.S., Bogan M.T., Bonada N., Bond N.R., Brintrup Barría K.C., Bruder A., Burrows R.M., Cancellario T., Canhoto C., Carlson S.M., Cauvy-Fraunié S., Cid N., Danger M., de Freitas Terra B., De Girolamo A.M., de La Barra E., del Campo R., Diaz-Villanueva V.D., Dyer F., Elosegi A. Faye E., Febria C., Four B., **Gafny S.,** Gessner M.O. Ghate S.D., Gómez R., Gómez-Gener L., Graça M.A.S., Guareschi S., Hoppeler F., Hwan J., Jones J.I., Kubheka S., Laini A., Langhans S.D., Leigh C., Little C.J., Lorenz S., Marshall J.C., Martín E., McIntosh A.R., Meyer E.I., Miliša M., Mlambo M.C1, Morais M., Moya N., Negus P.M., Niyogi D.K., Papatheodoulou A., Pardo I., Pařil P., Pauls S.U., Pešić V., Polášek M., Robinson C.T., , Rodríguez-Lozano P., Rolls R.J., Sánchez-Montoya M.M., Savić A., Shumilova O., Sridhar K.R., Steward A.L., Storey R., Stubbington R., Taleb A., Uzan A., Vander Vorste R., Waltham N.J., Woelfle-Erskine C., Zak D., Zarfl C. and Zoppini A. 2018. A global analysis of terrestrial

plant litter dynamics in non-perennial waterways. *Nature Geoscience*. 11: 497–503 (DOI: 10.1038/s41561-018-0134-4. (IF=13.941; SJR=6.467; JR: Earth and Planetary Sciences, 5/1442; Q1; 71 citations)*.

- S.G. and S.A. carried out the Israeli hydrological and biological field sampling, provided data from Israeli intermittent streams and reviewed the manuscript

31. Datry T., & 93 other authors including **Gafny S**. 2018. Author Correction: A global analysis of terrestrial plant litter dynamics in non-perennial waterways. *Nature Geoscience*. 11(7): 542 (DOI: 10.1038/s41561-018-0172-y. (IF=13.941; SJR=6.467; JR: Earth and Planetary Sciences, 5/1442; Q1; 2 citations)*.
32. Suari, Y., Amit, T., Gilboa, M., Sade, T., Krom, M.D., **Gafny, S.,** Topaz, T., and Yahel, G. 2019 Sandbar breaches control of the biogeochemistry of a micro-estuary. *Frontiers in Marine Science*. https://doi.org/10.3389/fmars.2019.00224 (IF=3.086; SJR=1.367; JR: 15/218; Aquatic Sciences, Q1; 7 citations)*.

- S.G. and G.Y. drafted the grant proposal for the RIME project (co PI's), obtained the funding and conducted the RIME project, took part in collecting the field data, carried on the data analysis and reviewed the manuscript

33. Dufresnes, C., Strachinis, I., Suriadna, N., Mykytynets, G., Cogălniceanu, D., Székely, P., Vukov, T., Arntzen, J.W., Wielstra, B., Lymberakis, P., Geffen, E., **Gafny, S.,** Kumlutaş, Y., Ilgaz, Ç., Candan, K., Mizsei, E.,; Szabolcs, M., Kolenda, K., Smirnov, N., Geniez, P., Lukanov, S., Crochet, P.A., Dubey, S., Perrin, N., Litvinchuk, S. and Denoël, M. 2019. Phylogeography of a cryptic speciation continuum in Eurasian spadefoot toads (*Pelobates*). *Molecular Ecology*, 28: 3257–3270. (IF=5.855. SJR=3.057; JR: Agricultural and Biological Sciences - Ecology, Evolution, Behavior & Systematics; 40/2201 Q1; 28 citations)*. ΔΔΔΔ

- S.G. collected and provided genetic samples of *P. syriacus* from Israel and together with E.G. and contributed to data interpretation and writing of the manuscript

ΔΔΔΔ This paper was highlighted by "*Molecular Ecology*" in Molecular Ecology Spotlight

34. von Schiller, D., Datry, T., Corti, R., Foulquier, A., Tockner, K., Marcé, R., García-Baquero, G., Odriozola, I., Obrador, B., Elosegi, A., Mendoza-Lera, C., Gessner, M.O., Stubbington, R., Albariño, R., Allen, D.C., Altermatt, F., Arce, M.I., Arnon, S., Banas, D., Banegas-Medina A., Beller, E., Blanchette, M.L., 10.Blanco-Libreros, J.F., Blessing, J., Boëchat, I.G., Boersma, K.S. Bogan, M.T., Bonada, N., Bond, N.R., Brintrup, K., Bruder, A., Burrows, R.M., Cancellario, T., Carlson, S.M., Cauvy-Fraunié, S., Cid, N., Danger, M., de Freitas Terra, B., Dehedin, A., De Girolamo, A.M., del Campo, R., Díaz-Villanueva, V., Duerdoth, C.P., Dyer, Faye, F.E., Febria, C., Figueroa, R., Four, B., **Gafny. S.,** Gómez, R., Gómez-Gener, L., Graça, M.A.S., Guareschi S., Gücker, B., Hoppeler, F., Hwan, J.L., Kubheka, S., Laini, A., Langhans, S.D., Leigh, C., Little, C.J., Lorenz S., Marshall, J., Martín, E.J., McIntosh, A., Meyer, E.I. Miliša, M., Mlambo, M.C., Moleón, M., Morais, M., Negus, P., Niyogi, D., Papatheodoulou, A., Pardo, I., Pařil, P., Pešić, V., Piscart, C., Polášek, M., Rodríguez-Lozano, P., Rolls, R.J., Sánchez-Montoya, M.M., , Savić, A., Shumilova, O., Steward, A., Taleb, A., Uzan, A., Vander Vorste, R., Waltham, N., Woelfle-Erskine, Cl., Zak, D., Zarfl, C. and Zoppini, A. 2019. Sediment respiration pulses in intermittent rivers and ephemeral streams. *Global Biogeochemical Cycles*. 33: 1251-1263. https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2019GB006276. (IF=5.733. SJR=3.509; JR: Earth and Planetary Sciences; 20/1442; Q1; 19 citations)*.

    - S.G. and S.A. carried out the Israeli hydrological and biological field sampling, provided data from Israeli intermittent streams and reviewed the manuscript.

34. Suari, Y., Dadon-Pilosof, A., Sade, T., Amit, T., Gilboa, M., **Gafny, S**., Topaz, T., Zedaka, H., Boneh, S., and Yahel, G. 2019. A long term physical and biogeochemical database of a hyper-eutrophicated Mediterranean micro-estuary**.** *Data in Brief* , 27: 104809 https://doi.org/10.1016/j.dib.2019.104809 . (IF=0.97. SJR=0.366; JR: Multidisciplinary 27/120; Q1; 3 citation)*.

    - S.G. and G.Y. drafted the grant proposal for the RIME project (co PI's), obtained the funding and conducted the RIME project, took part in collecting the field data, carried on the data analysis and and contributed to data interpretation and writing of the manuscript

35. Cohen, O., Hadany L., Ram Y. Gafny S[λ]. and Geffen E[λ]. 2021. Annual climatic fluctuations and short-term variations in population genetics. *Scientific Reports*, 11: 13514 https://doi.org/10.1038/s41598-021-92696-w (IF= 3.998; SJR=1.414; JR: Multidisciplinary, 6/120 Q1).*

[λ] Equal contribution

- S.G. and E.G. initiated and designed the study, collected part of the field data, coordinated the project and instructed the Ph.D. project of O.C. and contributed to data interpretation and writing of the manuscript.

36. Jurkowicz, G., Horwitz, R., Gafny, S., Blaustein, L. and Shams, I. 2021. Survey of molecular markers of the pathogenic Chytrid fungus (*Batrachochytrium salamandrivorans*) in populations of the Fire Salamander (*Salamandra infraimmaculata*) in Israel. *Salamandra - German Journal of Herpetology*, 57: In press. (IF= 1.52; SJR=0.577; JR: Animal Science and Zoology, Q2)*.

- S.G. co-instructed the M.Sc. program of G.J. and contributed to data interpretation and writing of the manuscript

C.1. Publications in review

1. Cohen, O., Ram Y. Hadany L., Geffen E.[λ] and Gafny S.[λ] 2020. The effect of habitat and climatic factors on microsatellite allele length variation. In review *Molecular Ecology* In review (manuscript ID: MEC-21-1161).

- S.G. and E.G. initiated and designed the study, collected part of the field data, coordinated the project and instructed the Ph.D. project of O.C. and contributed to data interpretation and writing of the manuscript

2. Perl, R.G.B[λ]., Avidor, E[λ]., Roll, U., Malka, Y., Geffen[λ], E. and Gafny[λ], S. 2021. Using eDNA presence/absence data to characterize the abiotic and biotic habitat requirements of a rare, elusive amphibian. Submitted to: *Environmental DNA* (manuscript ID: EDN3-2021-0090).

- SG and EG designed the study. EA and SG completed field sampling. EA performed the laboratory work. UR and EG analyzed the data. RGBP wrote the manuscript and all other authors contributed to editing and reviewing the manuscript.

[λ] Equal contribution

D. Articles or Chapters in Scientific Books (which are not Conference Proceedings)

Published

1. Gasith, A. and **Gafny, S.** 1990. Effect of water level fluctuation on the structure and function of the littoral zone. P:158-173. In: Tilzer, M.M. and Serruya, C. (eds.), *Large lakes: ecological structure and function.* Springer-Verlag. Berlin. (ISBN: 354-0-5211038, 87 citations).

   - As a Ph.D. student S.G. carried out the project under the supervision of A.G, collected field data, ran the data analysis, did the interpretation of the results and drafted the manuscript

2. Arnell, N.W., Bates, B., Lang, H., Magnuson, J.J., Mulholland, P., Fisher, S., Liu, C., McKnight, D., Starosolszky, O., Taylor, M., Aquize, E., Arnott, S., Brakke, D., Braun, L., Chalise, S., Chen, C., Folt, C.L., **Gafny, S.,** Hanaki, K., Hecky, R., Leavesly, G.H., Lins, H., Nemec, J., Ramasastri, K.S. Somlyódy, L. and Stakhiv, E. 1996. Hydrology and freshwater ecology. In Watson, R.T. et al., *Climate Change 1995 – Impacts, Adaptations and Mitigation of Climate Change: Scientific-Technical Analyses.* Contribution of Working Group II to the Second Assessment of the Intergovernmental Panel on Climate Change. (pp. 325-363). Cambridge, UK: Cambridge University Press.880pp. (ISBN: 0-521-56451**).**

   - S.G. provided data on the effect of water level fluctuations on Lake Kinneret to the assessment.

3. Gasith, A. and **Gafny**, **S.** 1998. The importance of physical structure in lakes: the case study of Lake Kinneret and general implications. P:331-338. In: Jeppesen, E., M.A. Sondergaard, M.O. Sondergaard and K. Christoffersen (eds.). *The structuring role of submerged macrophytes in lakes.* Springer-Verlag. Berlin. (ISBN: 978-0387982847; 28 citations).

   - As a Ph.D. student S.G. carried out the project under the supervision of A.G, collected field data, ran the data analysis, did the interpretation of the results and drafted the manuscript

4. Carpenter, S., Olson, M., Cunningham, P., **Gafny**, **S.,** Nibbelink, N., Pellet, T., Trebitz, A. and Wilson, K. 1998. Macrophyte structure and fish growth: a multi-lake experiment. P:217-226. In: Jeppesen, E., M.A. Sondergaard, M.O. Sondergaard and K. Christoffersen (eds.), *The structure ng role of submerged macrophytes in lakes*. Springer-Verlag. Berlin. (ISBN: 978-0387982847;. 12 citations).

- As a post doc. S.G. was the coordinated the project, under the sponsorship of S.R.C., Together with other team members, S.G. collected field data from over 50 lakes throughout Wisconsin, was involved in data analysis and interpretation and drafted the manuscript

5. **Gafny, S.** and A. Gasith.. 1999. Limnology and water quality dynamics of Enan Reservoir: a multipurpose man-made impoundment. P: 369-387. In: Juanico, M. and Dor, I. (eds.). *Reservoirs for wastewater storage and reuse: ecology, performance and engineering design.* Springer-Verlag. Berlin. (ISBN: 978-3540655985, 2 citation).

   - S.G. carried out the project, collected field data, ran the data analysis, did the interpretation of the results and drafted the manuscript.

6. Comas, J., Llorens, E., Poch, M., Markakis, G., Battin, T., **Gafny, S.,** Maneux, E., Marti, E., Morais, M., Puig, M.A., Pusch, M., Riera, J.L., Sabater, F., Solimini, A.G., & Vervier, P. 2002. The STREAMES project: Linking heuristic and empirical knowledge into an expert system to assess stream managers. P: 444-449. In: Rizzoli, A.E. and Jakeman A.J. (eds.), *Integrated assessment and decision support*. The National Environmental Modeling and Software Society, Como, Italy. (ISBN: 978889007870; 9 citations).

   - S.G. conducted the Israeli part of the international STREAMES team, took part in writing the EC grant, collected hydrological and biological samples in Israel, coordinated the Israeli part of the project, provided hydrological and biological data from the Yarqon River, and together with other co-authors reviewed the manuscript.

7. **Gafny, S.** 2002, Amphibia. . P: 55-68. In: Dolev, A. and Perevolotsky, A. (eds.), *Red Data Book of Vertebrates in Israel,* Yefeh Nof Pub., Jerusalem, Israel (in Hebrew). (ISBN: 965904660' 10 citations).

   - S.G. collected field data, conducted lab analysis, conducted the statistical data analysis and drafted the book chapter

8. S.G. collected field data, conducted lab analysis, conducted the scientific analysis and drafted the book chapter

9. **Gafny, S.** 2004. Threatened amphibians of Israel. P: 55-68. In: Dolev A. and Perevolotsky A. (eds.) *Endangered species in Israel: Red list of Threatened Animals. Vertebrates* . Nature and Park Authority and the Society for the Preservation of Nature, Pub. Pp:57-71. (in English, revised edition). (ISBN: 978-9659046607; 10 citations).

- S.G. collected field data, conducted lab analysis, conducted the statistical data analysis and drafted the book chapter

10. **Gafny, S.,** Talozi, S., Al-Sheikh**,** B. and Ya'ari, E. 2010. Towards a living Jordan River: An environmental flows Report on the rehabilitation of the Lower Jordan River. EcoPeace/ Friends of the Earth Middle East. Amman, Bethlehem and Tel Aviv. 83 pp. (45 citations). http://www.globalnature.org/bausteine.net/file/showfile.aspx?downdaid=7273&domid=1011&fd=0

- S.G. S.T. and B.A. collected hydrological field data, S.G. collected biological field data and conducted lab analysis, S.G. conducted the statistical data analysis., S.G. and E.Y. wrote the publication

11. **Gafny, S.** Al-Sheikh**,** B., Glasman, H. and Talozi, S. 2012. The lower Jordan River: Major biodiversity loss resulting from 50 years of degradation. P: 321-342. In: *Judea and Samaria Studies*, Vol. 21. (ISSN: 0792-8416)*.
    - S.G. S.T. and B.A. collected hydrological field data, S.G. collected biological field data and conducted lab analysis, S.G. conducted the statistical data analysis and drafted the book chapter
12. **Gafny, S.** 2013. Ephemeral winter pools and their fauna. In: Amit, H. (ed.). *The Golan Heights: Rivers and Water*. Yad Izhak Ben Zvi Pub. Jerusalem. P: 244-263 (in Hebrew).*.
    - S.G. collected field data, conducted lab analysis, conducted the statistical data analysis and drafted the book chapter
13. **Gafny, S.** 2016. Ephemeral winter pools of the Upper Galilee. In: Amit, H. (ed.). *The Upper Galilee Rivers* and water. Yad Izhak Ben Zvi Pub. Jerusalem. P: 68-85 (in Hebrew). (ISBN: 9789652173928). *
    - S.G. collected field data, conducted lab analysis, conducted the statistical data analysis and drafted the book chapter
14. **Gafny, S.** 2016. The amphibians of the Upper Galilee. In: Amit, H. (ed.). *The Upper Galilee: Rivers and water*. Yad Izhak Ben Zvi Pub. Jerusalem. P:86-105 (in Hebrew). (ISBN: 9789652173928). *
    - S.G. collected field data, conducted lab analysis, conducted the statistical data analysis and drafted the book chapter.

15. **Gafny, S.**, Pergament, D. and Grosbard, S. 2019 (eds.). Inland water bodies. In: Lotan, A., Grosbard, S. Safriel, U and Fitelson, E. (eds.), *Ecological systems and human welfare – A national assessment*. Ha'MARAG. P:62-73 (in Hebrew).
    - S.G. and D.P. drafted the book chapter.

E. Articles in Conference Proceedings

Published Full Papers

1. **Gafny,** S. and Gasith, A. 1989. Water quality dynamics in the shallow littoral of Lake Kinneret. In: Spanier E., Y. Steiberger amd M. Luria (eds.), *Environmental Quality and Ecosystem Stability*. Vol. 4/B. ISEEQS Pub. Jerusalem. Pp:327-336.

2. **Gafny,** S. and Gasith, A. 1992. Effect of low water level on the water quality of the shallow littoral of Lake Kinneret. In: Gasith, A. and A. Adin (eds.), *Environmental Quality and Ecosystem Stability.* Vol. 5/B. ISEEQS Pub. Jerusalem Pp:542-550. (This paper was later published in a scientific journal # C3).

3. Gasith, A., Goren, M. and **Gafny**, **S.** 1996. Ecological consequences of lowering Lake Kinneret water level: effect on breeding success of the 'Kinneret sardine'. In: Y. Steinberger (ed.). *Preservation of our world in the wake of change.* Vol: 6/B. ISEEQS Pub. Jerusalem. Pp: 569-573. (5 citations).

4. Sabater, F., Marti, E., Voreadou, C., Vervier, P., Solimini, A., R-Roda, I., Riera, J.L., Pusch, M., Puig, M.A., Morais, M., **Gafny**, **S.,** Comas, Q. and Batín, T. 2001. STREAMES, a multidisciplinary project to develop an Expert System for stream management in human-altered streams. In: *Proceedings of the 4th European Land-Ocean Interaction Studies (ELOISE) conference.* Rende, Italy. Pp: 25-26.

5. Sabater, F., Marti, E., Voreadou, C., Vervier, P., Solimini, AG., R-Roda, I., Riera, J.L., Pusch, M., Puig, M.A., Morais, M., **Gafny, S.,** Comas, and Q., Battin. T. 2002. STREAMES, a multidisciplinary project to develop an expert system for stream management in human-altered streams: current status of research activities. *Proceedings of Aquaeco International Conference, Science in support of European Water Policies, sustainability of aquatic ecosystem,* Stresa. Italy.

6. Comas, J., Llorens, E., Sabater, F., Martí, E., Riera, J.L., Poch, M., Puig, M.A., Godé, L., Battin, T., Voreadou, C., Markakis, G., Manganas, T., Carchini, G., Solimini, A., Signoretti, D., Vervier, P., Duchein, A., Pusch, M., Mohaupt, V., Morais, M., Matoso, 2002.The STREAMES project:

linking heuristic and empirical knowledge into an expert system to assess stream managers. *International Environmental Modelling and Software Society* (9 citations)

7. A., **Gafny, S.,** Pargament, D., and Zanen, M.. 2003. The development of the Environmental Decision Support System in the STREAMES project: the logic of decision trees in the management of Mediterranean streams. *Proceedings of ELOISE conference,* Gdansk, Poland, 23-27 March 2003.

8. Sabater, F., Marti, E., Sánchez, J.M., Battin, T., **Gafny**, **S.,** Morais, M., Pusch, M., Solimini, A. Vervier, P., Voreadou, C. and Riera, J.L. 2003. Nutrient dynamics in human altered streams as influenced by point source inputs. Results from a pan-European study. *Proceedings of the 3rd Symposium for European Freshwater Sciences (SEFS3).* Edinburgh, Scotland.

9. Solimini, A.G., Martì, E., Battin, T., **Gafny**, **S.,** Gerino, M., Morais, M., Puig, M.A., Push, M., Ruggiero, A., Singer, G,. Voreadou, C. and Sabater, F. 2003. Are invertebrate communities transient storage site of C, N and P in urban streams impacted by waste water treatment plants? *Proceedings of the 3rd Symposium for European Freshwater Sciences (SEFS3).* Edinburgh, Scotland.

10. Marti, E., Sabater, F., Comas, J., Battin, T., **Gafny, S.,** Morais, M., Puig, M.A., Pusch, M., Riera, J.L., R-Roda, I., Solimini, A.G., Vervier P. and Voreadou. C. 2004. Dissecting stream discharge: hydrologic controls on nutrient retention in streams draining catchments with contrasting land use. *Proceedings of the European Geosciences Union, 1st General Assembly.* Nice, France. 6-11 April, 2004.

11. Sabater, F., Marti, E., Comas, J., Puig, M.A., Riera, J.L., Battin, T., **Gafny, S.,** Morais, M., Pusch, M., Sánchez-Pérez, J.M., Solimini, A. and Voreadou C. 2004. STREAMES: an EDSS for stream management with emphasis on ecosystem. *Proceedings of the 5th International Symposium on Ecohydraulics*, 12-17 Sep. 2004, Madrid, Spain*.

12. **Gafny, S**, Pery, N, Roded, L. and Malka N. 2013. Guidelines for the national master plan for reallocation of water to nature. In: Friedler, E., Zaide, M., Shaviv, A. and Gilboa, Y. (Eds.,) *Water for Nature and River Restoration*. Technion – Israel Institute of Technology. Pp: 15-19. (In Hebrew).

13. Ballon, Y., **Gafny, S.** and Kronfeld, N. 2016. The effects of different lightning regimes on activity rhythms of the eastern spadefoot (*Pelobates syriacus*). *Proceedings of the 4th International conference on artificial light at night (ALAN).* 26-28th Sep. 2016. Cluj-Napoca, Romania*.

14. Ballon, Y., Gafny, S. and Kronfeld, N. 2020. The effect of light pollution on reproduction and tadpole survival in the Eastern spadefoot toad (*Pelobates syriacus syriacus*). *Proceedings of the*

6th *International Conference on Artificial Light at Night* (*ALAN*) (Manuscript # 72, presented on line).

Abstracts

1. Gasith, A., **Gafny, S.** and Katz, D. 1987. The significance of physical limnology aspects for the management of a deep multipurpose reservoir. In: Brandl Z. and V. Straskrobova (Eds.), *Proceedings of the International Conference on Reservoir Limnology and Water Quality*.
2. **Gafny, S.** and Gasith, A. 1988. The status of the Syrian spadefoot toad *Pelobates syriacus* as an endangered species in Israel. *Isr. J. Zool.* 33(3)**:** 93.(3 citations)

15. **Gafny, S.** and Gasith, A. 1988. Feeding habits of the Syrian spadefoot toad *Pelobates syriacus syriacus* in a short period of activity. *Isr. J. Zool.* 35**:** 97-98.
16. **Gafny, S.** and Gasith, A. 1989. *Helix engadensis* the main food of the Syrian spadefoot toad *Pelobates syriacus syriacus* in Israel. *Proceedings of the 1st World Congress of Herpetology*. Kent University, Canterbury, U.K. September 1989.
17. **Gafny, S**., Gasith, A. and Goren, M. 1989. Relationship between water level fluctuation and spawning of Lake Kinneret sardine *Mirogrex terraesanctae*. *Isr. J. Zool.* 35: 45
18. Carpenter, S., Cunningham, P., **Gafny, S.,** Munoz Del Rio, A., Nibbelink, N., Pellett, T. and Trebitz, A. 1991. Bass and bluegill growth response to macrophyte removal: Design of a replicated whole-lake experiment. *Bull. Ecol. Soc. Am.* 75**:** 33.
19. Gasith, A., **Gafny, S.** and Goren, M. 1992. The role of the littoral zone in large lakes: Effect of water level fluctuations. *Proceedings of an International Workshop on the Importance of External Perturbations for Short- and Long-term Changes in Large Lake Ecosystems.*
20. **Gafny, S.** and Gasith, A. 1993. The effect of substrate type and water level fluctuations on temporal and spatial appearance of submersed macrophytes in the littoral zone of Lake Kinneret, Israel. *Bull .Ecol. Soc. Am.* 74**:** 243.
21. Trebitz, A.S., **Gafny**, **S.,** Nibbelink, N., Storlie, C. and Unmuth, J. 1993. Predicting fish population response to vegetation manipulation. *Ecol. Soc. Am. Bull.* 74**:** 459.
22. **Gafny, S.,** Gasith, A. and Goren, M. 1994. Spatial and temporal distribution of fishes in the shallow littoral of Lake Kinneret, Israel. The effect of substrate type and water level fluctuations. In: Food - recreation and diversity: Managing now for the 21st century, *Proceedings of the 124th annual meeting of the American Fisheries Society.* Halifax, Nova Scotia. P: 81-82.

23. **Gafny, S.,** Nibbelink, N., Trebitz, A, Munoz Del Rio, A., Storlie, C., Sloey, D. and Carpenter, S. 1994. Is bluegill growth associated with excessive milfoil growth in south-central Wisconsin lakes? *Bull. Ecol. Soc. Am.* 75: 73.

24. Gasith, A., **Gafny, S.** and Goren, M. 1994. Effect of water level fluctuation on spawning success and population parameters of fish in Lake Kinneret (Israel). In:

25. *Fishes and their environment. Proceedings of the VIII Congress of "The European Ichthyological Society" (SEI).* Oveedo, Spain. P: 114.

26. Nibbelink, N.P., **Gafny**, **S.,** Trebitz, A.S. and Carpenter, S.R. 1994. When can bluegill and largemouth bass growth be improved by harvesting milfoil? In: *Food - recreation and diversity: Managing now for the 21st century, Proceedings of the 124th annual meeting of the American Fisheries Society.* Halifax, Nova Scotia. *Fisheries Review*, 40(3):100. Abst. # 124.

27. **Gafny, S.,** Gasith, A., Goren, M. and Carpenter, S.R. 1995. Importance of physical structure to fish in the littoral zone of lakes: a comparison of lakes from Wisconsin USA and Israel. *Isr. J. Zool.* 41**:** 85.

28. Gasith, A. and **Gafny**, **S.** 1997. The effect of water level fluctuation in Lake Kinneret, Israel, on the availability of structured habitats and in turn on the fish community, and general implications. *Ecol. Soc. Am. Bull.* 78**(**4**):** 93.

29. **Gafny, S.** and Gasith, A. 1998. Spatial and temporal variation of growth of emergent macrophytes: and their rate of decomposition in Lake Kinneret. *Proceedings of the Kinneret Symposium, Limnology & Lake Management 2000+*. Israel Oceanographic & Limnological Research. P: 9 .

30. Gasith, A. **Gafny, S.** and Goren, M. 1998. Availability and importance of structured habitats for the fish community in Lake Kinneret. *Proceedings of the Kinneret Symposium, Limnology & Lake Management 2000+*. Israel Oceanographic & Limnological Research P: 9.

31. **Gafny, S.,** Goren, M. and Gasith, A. 1998. Relationship between habitat conditions and structure of fish assemblages in the Yarqon stream, Israel. *Proceedings of the International Conference on Assessing the Ecological Integrity of Running Waters*. P: 27.

32. Bresler, V., **Gafny, S.** and Gasith, A. 1998. Molecular and cellular response in fish as early indicators of environmental stress in the Yarqon stream (Israel). *Proceedings of the international conference on assessing the ecological integrity of running waters* .Vienna. P: 13.

33. **Gafny, S.** and Klieger, A. 2001. Teaching an inter-collage, interdisciplinary, e-learning course in teacher collages: conclusions from 3 years' experience. . *Proceedings of the NARST (National Association for Research in Science Teaching) Annual Meeting.* May 2001. St. Louis, USA.

34. Klieger, A. and **Gafny, S.** 2001. An Inter-College, interdisciplinary, distance learning course: does it really work? *Proceedings of the NARST (National Association for Research in Science Teaching) Annual Meeting.* May 2001. St. Louis, USA.

35. Marti, E., Sabater, F., Comas, J., Battin, T., **Gafny, S.,** Morais, M., Puig, M.A., Pusch, M., Riera, J.L., R-Roda, I., Solimini, A.G., Vervier P. and Voreadou. C. 2001. Nutrient dynamics in human-altered streams, a multidisciplinary approach. Proceedings of the 49th NABS meeting, La Crosse, Wisconsin, USA. *Bulletin of the North American Benthological Society* 18(1)**:** 156.

36. Comas, J., E. Llorens, M. Poch, G. Markakis, T. Battin, **S. Gafny**, E.Maneux, E. Martí, M. Morais, M.A. Puig, M. Pusch, J.L. Riera, F. Sabater, A.G. Solimini and P. Vervier. 2002. The STREAMES Project: Linking heuristic and empirical knowledge into an expert system to assess stream managers Integrated Assessment and Decision Support Meeting. *Proceedings of IEMSS, the International Environmental Modeling and Software Society*. Lugano, Switzerland. June 24-27th 2002.

37. Marti, E., Sabater, F., Vervier, P., Battin, T., **Gafny, S.,** Morais, M., Pusch, M., Solimini, A., Voreadou, C. and Riera. J.L. 2003. Effects of point sources on nutrient dynamics across European streams with different degrees of human alteration. Proceedings of the 51th NABS meeting Athens, Georgia. *Bulletin of the North American Benthological Society* 20(1)**:** 280-281.

38. Marti, E., Sabater, F., Riera. J. L., Sánchez-Pérez, J.M., Battin, T.J., **Gafny, S.,** Morais, M.M., Pusch, M., Solimin, A. and Voreadou C. 2004.Hydrological control of nutrient retention across streams draining catchments with contrasting land uses. Proceedings of the 52st NABS meeting Vancouver, British Columbia Canada. 27th May- 1st June. *Bulletin of the North American Benthological Society* 21(1)**:** 267.

39. Sabater, F., Comas, J., Marti, E., Puig, M.A., Riera, J.L., Battin, T., **Gafny, S.,** Morais, M., Pusch, M., Solimini, A., Vervier, P. and Voreadou, C. 2004. STREAMES: an EDSS for stream management with emphasis on ecosystem functionality at reach scale. *Proceedings of the IV Congreso Ibérico de Limnologia y XII Congreso de la Asociación Española de Limnologia.* Porto, Portugal.

40. Elron, E., **Gafny, S.,** and Gasith, A. 2004. Where have the green toads gone? Alarming population decline or variable recruitment? *Proceedings of the 18th Annual meeting of the Society for Conservation Biology,* New York, USA.

41. Elron, E., Gasith, A., Levy, S., **Gafny, S.** 2004. Breeding success and recruitment of the green toad (*Bufo viridis*), a species in problem at the coastal plain of Israel. *Proceedings of the 14th ordinary general meeting of the Societas Europaea Herpetologica,* Bonn, Germany. P: 49.

42. Elron, E., Gasith, A., Levy, S., **Gafny, S.** 2004. Increased occupancy, a possible syndrome of a declining population: the case of the green toad in Israel. *Proceedings of the 5th World Congress of Herpetology*, Stellenbosch, South Africa.

43. Elron, E., Gasith, A., **Gafny, S.** 2005. Increased occupancy of the green toad (*Bufo viridis*), a possible syndrome of a population in trouble. Israel Journal of Zoology 51(1):63

44. **Gafny, S.,** Solimini. A., Gerino, M., Marti, E., Battin, T,. Morais, M., Pusch, M., Puig M.A., Sabater, F. and Voreadou C. 2005. How do point sources affect simple community structure parameters of stream macroinvertebrates? *Proceedings of the 2005 ASLO summer meeting.* Santiago de Compostela, Spain. (Session # SS24).

45. Sabater, F., Marti, E., Riera J.L., Battin, T., **Gafny, S.,** Morais, M., Pusch, M., Sanches-Perez, J.M., Solimini. A., and Voreadou C. 2005. A multifactorial approach to examine factors influencing nutrient retention in human altered streams. *Proceedings of the 2005 ASLO summer meeting.* Santiago de Compostela, Spain. (Session # SS24).

46. Gerino, M., Vervier, P., Sauvage, S., Sanches-Perez, J.M., Dumas, P., Battin, T., **Gafny, S.,** Marti, E., Morais, M., and Puig M.A., 2005. Relationships between ecosystem functions (nutrient uptake length) and invertebrate diversity in stream reaches. *Proceedings of the 2005 ASLO summer meeting.* Santiago de Compostela, Spain. (Session # SS24).

47. Morais, M., Pinto, P., Guilherme, P., Battin, T., **Gafny, S.,** Puig M.A., Pusch, M., Sabater, F., Solimini. A., and Vervier, P., 2005. Ecological distances as a tool to assess European human altered streams. *Proceedings of the 2005 ASLO summer meeting.* Santiago de Compostela, Spain. (Session # SS24).

48. Peyrard, D., Battin, T., **Gafny, S.,** Marti, E., and Morais, M., 2005. Hydro-morphological control on nutrient retention in European streams. *Proceedings of the 2005 ASLO summer meeting.* Santiago de Compostela, Spain.

49. Solimini, A.G., Singer, G.A., Marti, E., Battin, T.J., **Gafny, S.,** Gerino, M., Morais, M., Puig, M.A., Push, M., Ruggiero, A., Voreadou, C. and Sabater, F. 2004. Nutrient transient storage by the invertebrate assemblage in streams with contrasting nutrient loads. *International Association of Theoretical and Applied Limnology SIL XXIX Congress Lahti Finland*, 29(2): 807.

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