

**Name: Sarig Gafny**

**Date: June, 2024**

## **CURRICULUM VITAE**

### **1. Personal Details**

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### **2. Higher Education**

#### **A. Undergraduate and Graduate Studies**

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

#### **B. Post-Doctoral Studies**

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

### 3. Academic Ranks and Tenure in Institutes of Higher Education

| Dates      | Name of Institution and Department   | Rank/Position       |
|------------|--|---------------------|
| 2012- 2023 | 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 – 2022       | 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 – 2023*      | 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   |
| 2013-2022     | Society for Nature Protection in Israel (SPNI)  | Member – of Nature protection sub-committee of the Executive Board (2 <sup>nd</sup> term)     |
| 2013-2022     | Society for Nature Protection in Israel   | Member - Executive Board (2 <sup>nd</sup> term)   |
| 2012-2025     | International Union for Conservation of Nature (IUCN)   | IUCN SSC West European Amphibian Specialist Group (3 <sup>rd</sup> term)                      |
| 2012-Present  | IUCN Amphibian Red List Authority (RLA)   | Member of the West Asia Working Group (3 <sup>rd</sup> 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 ( <i>NPA</i> )                     | 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 ( <i>NPA</i> )                     | 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 ( <i>ISEEQS</i> ). | Executive Board Member  |
| 2002-2004   | Israel Water Association   | Board member of the Water Environment Forum   |
| 1999-2003   | Society for Protection of Nature - Israel ( <i>SPNI</i> ).                     | Member of the zoological committee  |

**b. Editorial and manuscript reviews**

| Dates                            | Name of Institution and Department  | Position  |
|----------------------------------|---|---|
| <b><u>Editorial</u></b>          |   |   |
| 2002                             | <i>Advances in Limnology</i>  | Co Editor - special issue. Limnology and Lake Management 2000+. |
| 1997-2001                        | <i>Ecology and Environment: Quarterly Journal for Ecology, Environment and Conservation</i> | Editor in chief   |
| <b><u>manuscript reviews</u></b> |   |   |
| 2023                             | <i>Environmental Monitoring and Assessment</i>  | Reviewer  |
| 2019                             | <i>Biological Journal of the Linnaean Society</i>   | Reviewer  |
| 2016                             | <i>Science of the Total Environment</i>   | Reviewer  |
| 2015                             | <i>PLOS ONE</i>   | Reviewer  |
| 2013                             | <i>Basic &amp; Applied Herpetology</i>  | Reviewer  |
| 2011                             | <i>Molecular Ecology</i>  | Reviewer  |
| 2003                             | <i>Israel Journal of Zoology</i>  | Reviewer  |



|      |                                       |          |
|------|---------------------------------------|----------|
| 1999 | <i>Hydrobiologia</i>                  | Reviewer |
| 1998 | <i>The American Naturalist</i>        | Reviewer |
| 1998 | <i>Wetland Ecology and Management</i> | Reviewer |
| 1998 | <i>Israel Journal of Zoology</i>      | Reviewer |
| 1993 | <i>Ecological Applications</i>        | 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. 2-4 <sup>th</sup> 2017   | The 1 <sup>st</sup> international conference for Israeli Conservation Science – Past, presence and future of Israeli conservation | Sde Boker, Israel    | Detection of <i>Bd</i> in amphibians in northern Israel – Is it an alarm call for amphibian conservation in Israel?  | Co-presenter |
| Apr. 2-4 <sup>th</sup> 2017   | The 1 <sup>st</sup> 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. 26-28 <sup>th</sup> 2016 | The 4 <sup>th</sup> International conference on artificial light at night.  | Cluj-Napoca, Romania | The effects of different lightning regimes on activity rhythms of the eastern spadefoot ( <i>Pelobates syriacus</i> )  | Co-presenter |
| Aug. 15-21 <sup>th</sup> 2016 | The 8 <sup>th</sup> World Congress of Herpetology (WCH8)  | Hangzhou, China.     | The return of a living fossil: resolving the natural history secrets of the rediscovered Hula painted frog <i>Latonia nigriventer</i> .                              | Presenter    |
| Aug. 15-21 <sup>th</sup> 2016 | The 8 <sup>th</sup> 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. 15-21 <sup>th</sup> 2016 | The 8 <sup>th</sup> World Congress of Herpetology   | Hangzhou, China      | Scrutinizing the survivors: population structure of the once lost Hula painted   | Co-presenter |

|   |  |                   |  |                    |
|---|--|-------------------|--|--------------------|
|   | (WCH8)   |                   | frog and implications for future conservation actions  |                    |
| Aug. 8-14 <sup>th</sup> 2012                        | The 7 <sup>th</sup> World Congress of Herpetology (WCH7).  | Vancouver, Canada | The return of the lost frog - rediscovery of the Hula Painted Frog.  | Presenter          |
| Oct.15-16 <sup>th</sup> 2012                        | 3 <sup>rd</sup> International Conference for Water Technologies  | Sde Boqer, Israel | Ecological restoration of rivers and streams: the Israeli perspective. . The   | Presenter          |
| May 2-5 <sup>th</sup> 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, 3-4 <sup>th</sup> , 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 20 <sup>th</sup> – Aug. 3 <sup>rd</sup> , 2008 | 2 <sup>nd</sup> 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, 13-14 <sup>th</sup> 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 7 <sup>th</sup> 2021      | Floods in Israel   | Mesada, Dead Sea & Arava Study Centere | Ecological aspects of water circulation at the Kinet Waterway  | Presenter    |
| June 20-21 <sup>st</sup> 2018 | The 2018 Annual Conference on Science and Environment: Challenges in Environmental | Rehovot, Weizmann Institute            | Population genetic analysis of the recently rediscovered Hula painted frog ( <i>Latonia nigriventer</i> ) reveals high genetic diversity and low | Co-presenter |



|                                 |  |  |  |              |
|---------------------------------|--|--|--|--------------|
|                                 | Sciences: From Local to Global Scales  |  | inbreeding.  |              |
| May 17 <sup>th</sup> 2018       | The 19 <sup>th</sup> 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 17 <sup>th</sup> 2018       | The 19 <sup>th</sup> 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 ( <i>Latonia nigriventer</i> ) reveals high genetic diversity and low inbreeding. | Co-presenter |
| Dec. 25 <sup>th</sup> 2016      | The 53 <sup>rd</sup> 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. 25 <sup>th</sup> 2016      | The 53 <sup>rd</sup> 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 <i>Pelobates syriacus</i> .                                      | Co-presenter |
| May 26 <sup>th</sup> , 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. 13-14 <sup>th</sup> , 2016 | The 18 <sup>th</sup> Meeting on <i>Innovative Studies in the Galilee and its Vicinities</i> .  | Tel-Hai Academic College                       | Resolving the life history mystery of a living fossil: The Hula painted frog <i>Latonia nigriventer</i> at the Hula Valley                                   | Presenter    |
| Feb 9 <sup>th</sup> , 2016      | Symposium on "Theory and practice in ecological stream restoration: experience from Israel and the world". Yad                             | Gan Hanadiv, Zichron Ya'akov                   | What characterizes the Tananim estuary in relation to other Mediterranean micro-estuaries in Israel and implications for the river rehabilitation?           | Presenter    |



|                               |  |                            |   |                   |
|-------------------------------|--|----------------------------|---|-------------------|
|                               | Hanadiv,   |                            |   |                   |
| Dec. 10 <sup>th</sup> 2015    | The 10 <sup>th</sup> Orna Eshed symposium "Water in the Golan Heights – from Where to where?"  | Ohalo College, Qazerin     | Ephemeral pools in the Golan Height   | Presenter         |
| Sep. 16-18 <sup>th</sup> 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. 22 <sup>nd</sup> 2014    | Biology and Conservation of Reptiles and Amphibians in Israel  | Tel Aviv University        | The Hula Painted frog <i>Latonia nigriventer</i> – updates from the field                 | Presenter         |
| Mar. 24 <sup>th</sup> , 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. 15 <sup>th</sup> 2013    | The 3 <sup>rd</sup> Water Forum. Shmuel Ne'eman Institute.   | Haifa, The Technion        | Framework for the master plan for water to nature   | Presenter         |
| Dec. 23 <sup>rd</sup> 2012    | The 10 <sup>th</sup> anniversary memorial to Prof. H. Mendelssohn  | Tel Aviv University        | The return of the lost frog - Rediscovery of the Hula Painted Frog                        | Keynote presenter |
| Apr. 24 <sup>th</sup> , 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. 21 <sup>st</sup> 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. 16 <sup>th</sup> , 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, 29 <sup>th</sup> , 2010  | Researching the Environment at a College of  | Beit Berl College          | Towards a living Jordan River: assessing the environmental flow                           | Presenter         |



|                              |  |                |   |           |
|------------------------------|--|----------------|---|-----------|
|                              | Education.<br>Workshop on environmental research conducted by academic staff |                | required for rehabilitation of the Lower Jordan River   |           |
| June 15 <sup>th</sup> , 2009 | Porter School of Environmental Studies                                       | Tel Aviv Univ. | The littoral zone of Lake Kinneret and the Bteicha nature reservation during periods of low lake levels | Presenter |

## **b. Organization of Conferences or Sessions**

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

## **7. Invited Lectures\Colloquium Talks**

| Date                        | Place of Lecture        | Name of Forum   | Presentation/Comments   |
|-----------------------------|-------------------------|---|---|
| Dec. 11 <sup>th</sup> 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 1 <sup>st</sup> , 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 30 <sup>th</sup> , 2006 | Be'er Sheba, Israel     | Mitrani Dept. of Desert Ecology, Jacob Blaustein Institute for                            | Nutrient dynamics in Mediterranean streams: the Yarqon and other polluted streams.  |



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

|                              |                          |   |   |
|------------------------------|--------------------------|---|---|
| Dec. 20 <sup>th</sup> , 1994 | Sde' Boker, Israel       | J. Bloustein Institute for Desert Research, Ben-Gurion Univ. of the Negev,                | The importance of physical structure to the fish assemblage in the littoral zone of lakes.  |
| Dec. 14 <sup>th</sup> , 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. 7 <sup>th</sup> , 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 29 <sup>th</sup> , 1994 | Cleveland Wisconsin, USA | Manitowoc Fish and Game Association   | An overview of a replicated whole-lake Littoral Zone Project (Aquatic Macrophyte Management)  |
| May 7 <sup>th</sup> , 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. 14 <sup>th</sup> , 1993 | Madison, Wisconsin, USA  | The Center for t 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*              | Prof. Eli Geffen<br>Dr. Uri Roll | Struggling global warming effect on endangered species, conservation of the Hula painted frog in KKL managed areas in the Hula Valley | KKL / 350,000 NIS  | 2022-2025 |
| PI*              | Dr. 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 <i>Batrachochytrium dendrobatidis</i> in different anuran amphibian species in                   | Ruppin Academic Center Internal Research Fund. 15,000 NIS. | 2018      |



|        |   |  |   |             |
|--------|---|--|---|-------------|
|        |   | Israel   |   |             |
| 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 <i>Latonia nigriventer</i> .  | 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 <i>Ranavirus</i> (RV) among amphibian populations and causes for swollen tadpoles of the tree frog <i>Hyla savignyi</i> and the green toad <i>Pseudepidalea viridis</i> 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   | Israel Nature Reserve and Parks Authorities. 80,000 NIS                                       | 2006-2008   |

\*Grants received since last promotion

**b. Submission of Research Proposals – Pending**

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

**c. Submission of Research Proposals – Not Funded**

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



|       |                                       |  |                   |      |           |
|-------|---------------------------------------|--|-------------------|------|-----------|
|       |                                       | <i>Latonia nigriventer</i>   | 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<br>Lecture/Seminar/Workshop/High<br>Learn Course/Introduction<br>Course ( <i>Institution</i> ) | Degree                          | Number of<br>Students |
|-------------|---|---|---------------------------------|-----------------------|
| 2019- 2022  | M.Sc. Seminar   | Seminar (Faculty of Marine Sciences – <i>FMS</i> )  | M.Sc                            | 24                    |
| 2018- 2022  | Dynamics of Marine Populations & Communities                | Lecture and Seminar ( <i>FMS</i> )  | M.Sc.                           | 13                    |
| 2018 - 2022 | Restoration of Marine Ecosystems                            | Lecture and Seminar ( <i>FMS</i> )  | M.Sc.                           | 14                    |
| 2015-2018   | Pollution and Rehabilitation of Marine ecosystems           | Seminar ( <i>FMS</i> )  | M.A.                            | 20                    |
| 2011-2013   | Essentials in Introductory Ecology: The Israeli Perspective | Lecture & Seminar (Porter School of the Environment, Tel Aviv University – <i>TAU</i> )                       | M.A. (Foreign students program) | 20                    |
| 2007-2015   | Chapters in Introductory Ecology                            | Lecture ( <i>TAU</i> )  | B.A & M.A                       | 50                    |
| 2006        | Issues in Environmental Quality                             | Lecture ( <i>TAU</i> )  | B.Sc.                           |                       |
| 2004-2009   | Issues in Environmental Quality in Israel                   | Lecture (Ruppin Academic Center - <i>RAC</i> )  | B.A.                            | 45                    |
| 2003-2013   | Limnology of Lake Kinneret                                  | Lecture (Faculty of Marine Sciences - <i>FMS</i> )  | B.Sc.                           | 75                    |
| 2003-2016   | Global Aspects of Environmental Quality                     | Lecture ( <i>RAC</i> )  | B.A.                            | 85                    |
| 2002-2009   | Environmental Issues of Israel                              | Lecture ( <i>RAC</i> )  | B.A.                            | 45                    |
| 2003-2013   | Limnology of Lake Kinneret                                  | Lecture ( <i>SMS</i> )  | B.Sc.                           | 75                    |



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

## b. Supervision of Graduate Students

### Ph.D. Students and Post-doc fellows

| 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, <i>RAC</i> ). | 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                      | 1 scientific journal paper (C27); |

|                           |   |           |   |  |
|---------------------------|---|-----------|---|--|
|                           | environmental DNA. (Co-sponsor – Prof. Eli Geffen TAU).   |           |   |  |
| 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. | 2018-2022                               | 1 scientific journal paper (C37); 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.     | 2015-2022<br>Dissertation was submitted | 3 scientific journal papers (C17, C35, C38),             |
| Balon. Yael               | Biological rhythms of the eastern spadefoot toad (Co-instructor – Prof. Noga Kronfeld-Schor TAU).   | Ph.D      | 2017- In Progress                       | 2 conference papers                                      |
| Franklin Sargunraj        | Developing a conservation model to save the Hula Painted Frog using population genetic approach. (Co-instructors – Prof. Eli Geffen TAU & Dr. Uri Roll BGU) | Ph.D      | 2023-<br>To be started in Oct 2022      |  |

### M.Sc. Students

| Name of Student  | Title of Thesis   | Degree | Date of Completion/in Progress | Students' Achievements |
|------------------|---|--------|--------------------------------|------------------------|
| Anat Kazir       | Inter specific communication in <i>Hyla</i> treefrog species in Israel (Co-supervisor – Prof. Eli Geffen. TAU).                         | M.Sc   | 2023 – In Progress             |                        |
| Daniella Abramov | Dynamics of pesticides in ephemeral pools in Israel   | M.Sc   | 2021 – In Progress             |                        |
| Bibi Moshe       | Biological ramifications for in-situ transplantation of two-dimensional coral tissue tiles (Co-instructor – Dr. Baruch Rinkevich ILOR). | M.Sc   | 2020 – In Progress             |                        |



|                     |  |       |                    |  |
|---------------------|--|-------|--------------------|--|
| Eldar Maya          | Differences in activity rhythms of northern and southern populations of the eastern spadefoot toad ( <i>Pelobates syriacus</i> ). (Co-instructor – Prof. Noga Kronfeld-Schor TAU).   | M.Sc  | 2020– 2022         |  |
| Jurkowicz Goldie    | Detection of <i>Bsal</i> infection presence and distribution pattern in Israeli populations of <i>Salamandra infraimmaculata</i> . (Co-instructor – Dr. Imad Shans Haifa University) | M.Sc  | 2019 – 2021        | 1 scientific journal paper (C 36)                                      |
| Nissim Yoni         | Defining the breeding cycle of <i>Latonia nigriventer</i> using steroid hormones   | M.Sc  | 2019 – In Progress |  |
| Mesika-Surizon, Gal | The taxonomic status of <i>Hyla</i> sp. in Israel  | M.Sc. | 2018 - 2022        | 1 scientific journal paper (C40)                                       |
| Malul, Yoav         | Nitrogen compounds dynamics in a Mediterranean micro estuary (Co-instructor – Prof. Michael Krom, Haifa U).  | M.Sc. | 2018 - 2022        |  |
| 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- 2022         |  |
| Lubin, Hadas        | Detection <i>Bd</i> 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- 2022         |  |
| 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- 2019         |  |
| Avidor, Ela         | The effect of habitat characteristics on the spatial distribution of the Hula painted frog <i>Latonia nigriventer</i> . (Co-supervisor – Prof. Eli Geffen. TAU).                     | M.Sc. | 2016-2018          | 1 scientific journal paper (C37); 3 excellence Awards and fellowships. |



|                              |  |       |            |   |
|------------------------------|--|-------|------------|---|
| Balon.<br>Yael               | The effect of different light regimes on activity rhythms of the eastern spadefoot toad ( <i>Pelobates syriacus</i> ). (Co-instructor – Prof. Noga Kronfeld-Schor, <i>TAU</i> ). | M.Sc. | 2014- 2017 | 1 conference paper (E14)  |
| Grossbard,<br>Shira          | Vernal Pools as a base for developing Urban Wildlife urban nature (Co-instructor – Dr. Daniel E. Orenstine, <i>Technion</i> ).   | M.Sc. | 2013- 2017 |   |
| Weisman,<br>Ishai            | Occurrence of Ranavirus in amphibian populations in Israel. (Co-supervisor – Prof. Eli Geffen, <i>TAU</i> ).   | M.Sc. | 2011-2013  | 1 final scientific report   |
| Avni,<br>Nimrod              | Evaluating stream restoration using nutrient dynamics metrics: case study in the Yarqon stream (Co-supervisor – Dr.. Shay Arnon, <i>BGU</i> ).                                   | M.Sc. | 2010-2013  | 1 scientific journal paper (C22)  |
| Munwes-<br>Kalski,<br>Inbar  | The genetic structure of the Syrian spadefoot toad <i>Pelobates syriacus</i> in Israel. (Co-supervisor – Prof. Eli Geffen, <i>TAU</i> ).   | M.Sc. | 2009-2011  | 2 scientific papers (C14, C16)  |
| Taub-<br>Korem,<br>Miri      | The effect of recreational activity on ecosystem structure and function of pristine streams in northern Israel. (Co-supervisor – Prof. Menachem Goren, <i>TAU</i> ).             | M.Sc. | 2008-2010  | 1 published final scientific report   |
| Vitlin<br>Rabinski,<br>Irina | The ecology of soft sediment biota at the Yarqon stream. (Co-supervisor – Prof. Avital Gasith, <i>TAU</i> ).   | 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**

#### **C1 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)<sup>^</sup>.
  - 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.

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<sup>^</sup> 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<sub>Inland Waters</sub>=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<sub>Inland Waters</sub>=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<sub>Inland Waters</sub>=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)<sup>ΔΔ</sup>.

- 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 during 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.**, Talozzi, 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.

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<sup>ΔΔ</sup> 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 for 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

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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)<sup>ΔΔΔ</sup>.\*

- 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 .

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<sup>ΔΔΔ</sup> This paper was selected by "*Nature Communication*" as "highlight of the week", included as editor's choice in "*Science*" magazine (July 7<sup>th</sup> 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., Hershkovitz, 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., Hershkovitz, 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 data, and together with S.A. instructed the M.Sc. project of N.A. 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 contributed to data interpretation and writing of the manuscript

24. Perl, 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 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-Perez, 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. Perl, 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., Eloşegi 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. Detry 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)\*. <sup>ΔΔΔΔ</sup>
- 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

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<sup>ΔΔΔΔ</sup> 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., 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.

35. 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 contributed to data interpretation and writing of the manuscript

36. Cohen, O., Hadany L., Ram Y. **Gafny S<sup>λ</sup>**. and Geffen E<sup>λ</sup>. 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).\*
- <sup>λ</sup> 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.
37. Jurkowicz, G., Horwitz, R., **Gafny, S.**, Blaustein, L. and Shams, I. 2022. Survey of molecular markers of the pathogenic Chytrid fungus (*Batrachochytrium salamandrivorans*) in populations of the Fire Salamander (*Salamandra atra*) in Israel. *Salamandra - German Journal of Herpetology*, 58(1): 64–66. (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
38. Perl, R.G.B<sup>λ</sup>., Avidor, E<sup>λ</sup>., Roll, U., Malka, Y., Geffen<sup>λ</sup>, E. and **Gafny, S<sup>λ</sup>**. 2022. Using eDNA presence/absence data to characterize the abiotic and biotic habitat requirements of a rare, elusive amphibian. *Environmental DNA*. 4:642-653. <https://doi.org/10.1002/edn3.276>. (IF= 8.94; Q1 (Ecology; Ecology, Evolution, Behavior and Systematics; Genetics. SJR=1.734` HI=17)
- <sup>λ</sup> Equal contribution
- SG designed the study. SG and EG supervised the MSc program of EA, EA and SG carried out the 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.
39. Cohen, O., Ram Y. Hadany L., Geffen E. <sup>λ</sup> and **Gafny S. <sup>λ</sup>** 2022. The effect of habitat and climatic factors on microsatellite allele length variation. *Frontiers in Ecology and Evolution*. ((IF= 4.493; SJR= 1.317; Q2). <https://doi.org/10.3389/fevo.2022.893856>.
- <sup>λ</sup> 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.

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<sup>λ</sup> Equal contribution

40. Mesika Surizon, G., Geffen, E., Roll, U., **Gafny, S<sup>λ</sup>** & Perl, R.G.B<sup>λ</sup>. 2024. Phylogeny, geographical distribution and population differentiation of Middle East tree frogs in Israel. *Scientific Reports*, 41598, Article No : 52700. In Press. (5Y IF= 4.9; SJR=0.973; JR: Multidisciplinary, 13/147 Q1).\* <https://doi.org/10.1038/s41598-024-52700-5>

<sup>λ</sup> Equal contribution

- G.M.S. Carried on the field work and lab analyses as part of her M.Sc. B.P. conducted the data analysis and drafted the manuscript S.G. initiated, designed, and coordinated the study, helped in collecting field data and supervised G.M.S. M.Sc. program. E.G. coordinated the data analysis, U.R helped collecting some of the field data and carried on the GIS analysis.

## **C.2. Publications in press**

41. Foulquier, A., Datry, T., Corti, R., von Schiller, D., Tockner, K., Stubbington, R., Gessner, M.O., Boyer, F., Ohlmann, M., Thuiller, W., Rioux, D., Miquel, C., Albariño, R., Allen, D.C., Altermatt, F., Arce, M.I., Arnon, S., Banas, D., Banegas Medina, A., Beller, E., Blanchette, M.L, Blessing, J., Gonçalves Boëchat, I., Boersma, K., Bogan, M., Bonada, N., Bond, N., Brintrup, K., Bruder, A., Burrows, R., Cancellario, T., Canhoto, C., Carlson, S., Cid, N., Cornut, J., Danger, M., de Freitas Terra, B., De Girolamo, A.M., del Campo, R., Díaz Villanueva, V., Dyer, F., Elosegı, A., Febria, C., Figueroa Jara, R., Four, B., **Gafny, S.**, Gómez, R., Gómez-Gener, L., Guareschi, S., Gücker, B., Hwan, J., Jones, J.I., Kubheka, P.S., Laini, A., Langhans, S.D., Launay, B., Le Goff, G., Leigh, C., Little, C., Lorenz, S., Marshall, J., Martin Sanz, E.J., McIntosh, A., Mendoza-Lera, C., Meyer, E.I., Miliša, M., Mlambo, M.C., Morais, M., Moya, N., Negus, P., Niyogi, D., Pagán, I., Papatheodoulou, A., Pappagallo, G., Pardo, I., Pařil, P., Pauls, S.U., Polářek, M., Rodríguez-Lozano, P., Rolls, R.J. Sánchez-Montoya, M.M., Savić, A., Shumilova, O., Sridhar, K.R., Steward, A., Taleb, A., Uzan, A., Valladares, Y., Vorste, R.V., Waltham, N.J., Zak, D.H., Zoppini, A. 2024. Unravelling large-scale patterns and drivers of biodiversity in dry rivers. *Nature Communication* (MS - NCOMMS-23-36666B) (2Y IF= 16.6; SJR=4.887; JR: Biochemistry, Genetics and Molecular Biology, 13/147 Q1).. In Press.
- S.G. and S.A. carried out the Israeli hydrological and biological field sampling, collected and provided data from Israeli intermittent streams, commented on different versions of the manuscript and reviewed the manuscript.

42. **Gafny, S.** and Roll, U. 2024. Status and Decline of the Amphibians of Israel. In: Heatwole H. and Das, I. (Eds.) *Amphibian Biology* ser. Middle East Amphibians volume. In Press.

- S.G. collected the data for the GIS analysis wrote the chapter. U.R. performed the GIS analysis and produced the species distribution maps.
43. **Gafny, S.** 2024. Status and Decline of Amphibians of the West Bank and the Gaza Strip. In: Heatwole H. and Das, I. (Eds.) *Amphibian Biology* ser. Middle East Amphibians volume. In Press.
- S.G. wrote the chapter.

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<sup>λ</sup> Equal contribution

- **C.3. Publications in revision**

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

**D1 Published Book Chapters**

44. 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
45. 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., Nemeč, 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.
46. 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

47. 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

48. **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.

49. 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.

50. **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.
51. **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.
52. **Gafny, S., Talozzi, 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?downaid=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
53. **Gafny, S.** Al-Sheikh, B., Glasman, H. and Talozzi, 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
54. **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.
55. **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

56. **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.

57. **Gafny, S.**, Pergament, D. and Grosbard, S. 2019 (eds.). Inland water bodies. In: Lotan, A., Grosbard, S. Safrieli, 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**

### **E1. 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 and 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 4<sup>th</sup> European Land-Ocean Interaction Studies (ELOISE) conference*. Rende, Italy. Pp: 25-26.
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## **F. Other Scientific Publications**

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