

4. CV of the Experienced Researcher

FIRST NAME: VOLODIMIR

SURNAME: SARABEEV

E-mail: volodimir.sarabeev@ext.uv.es, volodimir.sarabeev@gmail.com, sps@znu.edu.ua

Education:

2001: PhD (Parasitology & Helminthology), Schmalhausen Institute of Zoology NASU, Kiev, Ukraine. Thesis: "Parasites of So-iuy mullet and local fish in the Northwestern Azov Sea (fauna, ecology)".

1996: MSc (Biology), Faculty of Biology, Zaporizhzhia State University, Zaporizhzhia, Ukraine. Thesis: "Fish-eating birds of the Molochny Estuary and their practical significance".

Academic title:

2006: Associate professor, Awarded by Ministry Education and Science of Ukraine. Certificate of associate professor 02ДЦ #013260

Career/Employment (employers, positions and dates):

Zaporizhzhia National University, (Zaporizhzhia) – Associate Professor – March 2017-present.

University of Santiago de Compostela, Spain – MEDEA fellowship, Erasmus Mundus Action 2 program – September 2016 – February 2017.

Polytechnical University of Valencia, Spain – ELECTRA fellowship, Erasmus Mundus Action 2 program – December 2014 – September 2015.

University Pierre and Marie CURIE (Paris 6), France - Fellowship from Ministry of Education and Science of Ukraine – August - October 2014.

Zaporizhzhia National University, Ukraine, Doctoral candidate, Fellowship from Ministry of Education and Science of Ukraine – November 2012 - August 2016.

University of Montpellier 2, France – Fellowship from Ministry of Education and Science of Ukraine – May - July 2012.

Zaporizhzhia National University, (Zaporizhzhia) – Head of regional study-research-production centre of "Ecology" – May 2008 - August 2016.

Cavanilles Institute of Biodiversity and Evolutionary Biology, University of Valencia –Fellowship from Valencia Government of Spain – July 2006 - December 2006.

Cavanilles Institute of Biodiversity and Evolutionary Biology, University of Valencia – MEC of Spain Fellowship – February 2005 - April 2006.

Cavanilles Institute of Biodiversity and Evolutionary Biology, University of Valencia – NATO Fellowship – February - October 2003.

Zaporizhzhia State University, (Zaporizhzhia) – Associate Professor – February 2001- October 2012.

Zaporizhzhia State University (Zaporizhzhia) - Lecturer – November 1999 - December 2001.

Zaporizhzhia State University (Zaporizhzhia) – Ph.D. student – November 1996 - October 1999.

Cita-
tions¹

Research refereed monograph

Sarabeev V., Rubtsova N., Yang T., Balbuena J.A. (2013) Taxonomic revision of the Atlantic and Pacific species of *Ligophorus* Euzet and Suriano, 1977 (Monogenea: Dactylogyridae) from mullets (Teleostei: Mugilidae) with proposal of a new genus and description of four new species. *Vestnik Zoologii. Supplement* 28. 112 pp. 8

List of papers in refereed journals, ordered by citations

1. **Sarabeev V.L.**, Balbuena J.A. (2004a) *Ligophorus pilengas* n. sp. (Monogenea, Ancyrocephalidae) from the introduced So-iuy mullet *Mugil soiuy* (Teleostei, Mugilidae) in the Sea of Azov and the Black Sea. *Journal of Parasitology*. **90**: 222-228. 27
2. **Sarabeev V.L.**, Balbuena J.A. and Euzet L. (2005) Taxonomic status of *Ligophorus mugilinus* (Hargis, 1955) (Monogenea, Ancyrocephalidae), with a description of *Ligophorus mediterraneus* n. sp. from *Mugil cephalus* (Teleostei, Mugilidae) from the Mediterranean Basin. *Journal of Parasitology* **91**: 1444-1451. 23
3. Yurakhno V.M., Ovcharenko M.O., Holzer A.S., **Sarabeev V.L.**, Balbuena J.A. (2007) *Kudoa unicapsula* n. sp. (Myxosporea: Kudoidae) a parasite of the Mediterranean mullets *Liza ramada* and *L. aurata* (Teleostei: Mugilidae). *Parasitology Research*, **101(6)**: 1671-1680. 20
4. Rubtsova N.Yu., Balbuena J.A., **Sarabeev V.L.**, Blasco-Costa I. and Euzet L. (2006) Description and morphometrical variability of a new species of *Ligophorus* and of *Ligophorus chabaudi* (Monogenea: Dactylogyridae) on *Mugil cephalus* (Teleostei) from the Mediterranean basin. *Journal of Parasitology*, **92(3)**: 486-495. 19

¹ Citations following <https://scholar.google.com/citations?user=vF7cMegAAAAJ&hl=en>, but excluding self-citations

- 15
5. Holzer A.S., Blasco-Costa I., **Sarabeev V.L.**, Ovcharenko M.O. and Balbuena J.A. (2006) *Kudoa trifolia* sp. n. – Molecular phylogeny suggests a new spore morphology and unusual tissue location for a well-known genus. *Journal of fish diseases*, **29**: 743-755. 17
6. Rubtsova N.Yu., Balbuena J.A., **Sarabeev V.L.** (2007) Three new species of *Ligophorus* Euzet and Suriano, 1977 (Monogenea: Dactylogyridae) from the gills of *Mugil cephalus* (Teleostei: Mugilidae) from the Japan Sea. *Journal of Parasitology*, **93(4)**: 772-780. 15
7. Domnich I.F., **Sarabeev V.L.** (2000) Contemporary fauna of fish parasites in the northern part of the Azov Sea (in Ukrainian). *Bulletin of Zaporizhzhia National University. Biological sciences*, 1: 224-230. (In Ukrainian). 12
8. Domnich I.F., **Sarabeev V.L.** (2000) The Fauna of Trematodes (Trematoda) of the Far-East-mullet — pelingas (*Mugil soiyu*) in the Azov Sea. *Vestnik zoologii*, **34(3)**: 7-15. (in Russian). 10
9. Blasco-Costa I., Míguez-Lozano R., **Sarabeev V.**, Balbuena J.A. (2012) Molecular phylogeny of species of *Ligophorus* (Monogenea: Dactylogyridae) and their affinities within the Dactylogyridae. *Parasitology International*. **61**. 619-627. 10
10. **Sarabeev V.L.**, Domnich I.F. (2000) Age-related dynamics of parasitic infection of the pelingas in the Molochny estuary of the Azov Sea. *Vestnik zoologii*, supplement 14, 2: 6-12. (in Russian) 10
11. **Sarabeev V.L.** and Balbuena J.A. (2003) Morphological variability of *Dicrogaster contracta* Looss, 1902 (Digenea: Haploporidae) and its proposed synonymy with *D. perpusilla* Looss, 1902. *Systematic Parasitology*. **55**: 25-31. 10
12. Domnich I.F. and **Sarabeev V.L.** (1999) Trematodes of the genus *Bunocotyle* (Trematoda, Haliipegidae) from the haarder (*Mugil so-iuy*) acclimatized in the Azov Sea. *Parazitologiya*, **33**: 67-70 (In Russian). 8
13. Blasco M.I., Pankov P., Gibson D.I., Balbuena J.A. Raga, J.A. **Sarabeev, V.L.** and Kostadinova, A. (2006) *Saturnius minutus* n. sp. and *S. dimitrovi* n. sp. (Digenea: Hemiuridae) from *Mugil cephalus* L. (Teleostei: Mugilidae), with a multivariate morphological analysis of the Mediterranean species of *Saturnius* Manter, 1969. *Systematic Parasitology*, **65**: 77-91. 7
14. Balbuena J.A., Rubtsova N.Yu., **Sarabeev V.L.** (2006) *Ligophorus pilengas* Sarabeev & Balbuena, 2004 (Monogenea: Ancyrocephalidae) proposed as senior synonym of *Ligophorus gussevi* Miroshnichenko & Maltsev, 2004. *Systematic Parasitology*. **63**: 95-98. 7
15. **Sarabeev V.L.** Desdevises Y. (2014) Phylogeny of the Atlantic and Pacific species of *Ligophorus* (Monogenea: Dactylogyridae): morphology vs. molecules. *Parasitology International*. **63**. 9-20. 5
16. Ovcharenko N., **Sarabeev V.**, Wita I., Czaplinska U. (2000) *Loma mugili* sp. n., a new Microsporidium from gills of So-iuy mullet *Mugil soiyu*. *Vestnik zoologii*, **34(4-5)**: 9-15. (in Russian) 2
17. Rubtsova N.Yu., and **Sarabeev V.L.** (2006) Expediency study of using material after freezing in ecological researches of metazoan fish parasites. *Pytannya bioindykazii ta ekologii*. Zaporizhzhja, ZNU, 11(1): 145-155 (in Ukraine). 1
18. Rubtsova N.Yu., **Sarabeev V.L.**, Shvydka S.P., Balbuena J.A. and Borisenkov V.S. (2006) Morphometric variability of *Ligophorus vanbenedenii* (Ancyrocephalidae: Monogenea) and its relationship with host characteristics and infrapopulation size. *Bulletin of Zaporizhzhia National University. Biological sciences*. 1: 151-158. (In Ukrainian). 1
19. Domnich I.F., and V.L. **Sarabeev.** (1999) Formation of the parasite fauna of *Mugil soiyu* in the Azov Sea. *Bulletin of Zaporizhzhia National University. Biological sciences*, **2**: 218-223. (In Ukrainian). 1
20. **Sarabeev V.L.** (2015a) Helminth species richness of introduced and native grey mullets (Teleostei: Mugilidae). *Parasitology International*. **64**. 6-17. 1
21. **Sarabeev V.L.**, Tkach E.V. (2010) Infection parameters modeling of *Neoechinorhynchus agilis* (Acanthocephala: Neoechinorhynchidae) from the Azov-Black Sea *Mugil cephalus* (Teleostei: Mugilidae) using artificial neural networks Bulletin of Zaporizhzhia National University. *Biological sciences*. **2**. 40-53. (In Ukrainian). 0
22. Tkach Ie. V., **Sarabeev V.L.**, Shvetsova L. S. (2014) Taxonomic status of *Neoechinorhynchus agilis* (Acanthocephala, Neoechinorhynchidae), with a description of two new species of *Neoechinorhynchus* from the Atlantic and Pacific mullets (Teleostei, Mugilidae). *Vestnik Zoologii*. **48**. 291-306. 0
23. **Sarabeev V.L.** (2015b) Mortality of juvenile so-iuy mullet *Liza haematocheilus* (Teleostei: Mugilidae) in the Sea of Azov associated with metacercariae (Digenea). *Vestnik Zoologii*, 49(2), 537-550. 0
24. Rodríguez-González A., Míguez-Lozano R., **Sarabeev V.**, Balbuena J.A. (2016) Evolutionary modularity and morphological integration in the haptor anchors structures of *Ligophorus* spp. (Monogenea: Dactylogyridae). *Parasitology Research*. Published online: 13 May 2016. 0
25. Rodríguez-González A., **Sarabeev V.**, Balbuena J.A. (2017) Evolutionary morphology in shape and size of haptor anchors in 14 *Ligophorus* spp. (Monogenea: Dactylogyridae). *PLoS One* 12, e0178367. 0
26. **Sarabeev V.**, Balbuena J.A. and Morand S. (2017a) Testing the enemy release hypothesis: abundance and distribution patterns of helminth communities in grey mullets (Teleostei: Mugilidae) reveal the success of invasive species. *International Journal for Parasitology*. Available online 8 July 2017. <https://doi.org/10.1016/j.ijpara.2017.05.006> 0
27. **Sarabeev V.**, Balbuena J.A. and Morand S. (2017b) The effects of host introduction on the relationships between species richness and aggregation in helminth communities of two species of grey mullets (Teleostei: Mugilidae). *Vie et Milieu*. Accepted to print, July 2017. 0
28. Shvydka S., **Sarabeev V.**, Estruch V.D. (2017c) Optimum sample size to estimate mean parasite abundance in fish 0

parasite surveys. *Helmintologia*. Accepted to print HE-2017-0017.

Reports and published abstracts at scientific meetings (underlined: invited speaker), 15 most appropriated abstracts out of 26 are listed, ordered by citations

1. Domnich I.F. and Sarabeev V.L. 2000a. Forming of the parasitic fauna of the pilengas in the Azov Sea. *Acta Parasitologica* 45: 265. 10
2. Sarabeev V. L. 2000. Seasonal dynamics of parasitic infection of the pelingas in the northern part of the Azov Sea. Materials of the international scientific conference of young scientists "Aquatic biological resources and ways of their rational use", Kiev, pp. 97-99. (in Russian). 9
3. Domnich I.F. and Sarabeev V.L. 2000b. Parasitic fauna structure of the pilengas in the Azov Sea. *Acta Parasitologica* 45: 268. 6
4. Rubtsova N.Yu., Sarabeev V.L., Pankov P. and Balbuena J.A., (2006) Current list species of *Ligophorus* (Monogenea, Dactylogyridae). Materials of International scientific conference "Fauna, biology, morphology and systematic of parasites", 19-21 April 2006, Moskov Institute of parasitology RAS, 251-253. (In Russian). [Современный состав фауны лигофорусов (Monogenea, Dactylogyridae)]. 1
5. Rubtsova N.Yu., Sarabeev V.L. (2007) Use of the fresh and frozen material in ecological researches of metazoan fish parasites: quest of the optimum decision. Proceedings of the IV all-Russian workshop on theoretical and marine parasitology, 21-26 May 2007, Kaliningrad, AtlantNIRO, 181-183. (In Russian). [Использование свежего и замороженного материала в экологических исследованиях многоклеточных паразитов рыб: поиск оптимального решения] 1
6. Shvydka S., Sarabeev V., Estruch V. D., Cadarso-Suárez C. (2016) Sample size required for estimating the mean parasite abundance // II Galician-Portuguese Meeting of Biometry, Santiago de Compostela, 30 June – 2 July 2016. 0
7. Sarabeev V. (2015) Invasive host and its parasites: study of species richness, abundance and aggregation of helminth parasites in introduced and native grey mullets (Teleostei: Mugilidae) across localities in the NE Atlantic and NW Pacific regions. Yuvilejni chytannya, prysvyчени 70-richchyu Ukrayins'koho naukovohto tovarystva parazytolohiv ta 110-richchyu z dnya narodzhennya akademika NAN Ukrayiny O. P. Markevycha (Kyiv, 5-11-2015): Abstracts – P. 56. 0
8. Shvydka S., Sarabeev V., Cadarso-Suárez C. (2017) Applying generalized additive models to assess the fish parasite abundance. Abstracts of 3rd Biostatnet General Meeting, pp.73-74. 0
9. Sarabeev V.L., Tkach E.V. (2009) Use of artificial neural networks to search hidden dependence of *Neoechinorhynchus agilis* (Rudolphi, 1819) (Acanthocephala: Neoechinorhynchidae) infection from the Azov-Black Sea mullets (Teleostei: Mugilidae). Materials of II International Conference "Modern problems of biology, ecology and chemistry", 1-3 October 2009. Zaporizhzhia, 110-111. (In Ukraine). 0
10. Blasco-Costa I., Sarabeev V.L., Balbuena J.A., Raga J.A. (2007) Parasite communities of grey mullets in western Mediterranean. VII International Symposium of Fish Parasites. 24-28 September 2007. Viterbo (Italy), 263. 0
11. Sarabeev V.L., Balbuena J.A., Blasco-Costa I. and Rubtsova N.Yu. (2007) Ecosystem health assessment in marine coastal waters using mullet parasite communities. Materials of International Conference "Modern problems of biology, ecology and chemistry", 29 March – 1 April 2007, Zaporizhzhia (Ukraine), ZNU, 246-249. 0
12. Tkach E.V., Sarabeev V.L., Romanjuk O.M., Balbuena J.A. (2008) Assessing impact of introduced So-iuy mullet on transmission of helminths in sympatric mullet communities in the Azov-Black Sea Materials of Conference „Ecological and faunistic features of water and terrestrial ecosystems". 12-14 February 2008, Lviv, 164-168. 0
13. Holzer A.S., Blasco-Costa I., Sarabeev V.L., Balbuena J.A. and Raga J.A. (2006) An extraordinary species of *Kudoa* which introduces a new spore morphology and tissue location to a well known genus. *ICOPA XI. 6th-11th August 2006*, SECC, Glasgow, Scotland. 0
14. Sarabeev V.L., Domnich I.F. (2001) Fauna of fish parasites of gobies family in the northern part of the Azov Sea. Problems of ichthyopathology. Kiev (Ukraine), 100-103. (In Russian). 0
15. Domnich I.F., and Sarabeev V.L. (2001) Age changes of parasite infection of the so-iuy mullet (*Mugil soiyu*) in the Azov Sea. Problemy zooinzhenerii ta veterinarii. Zbirnyk naukovykh prats. Harkiv, Ukraine 7(31): 230-231. (in Russian). 0

Granted patents

1. Dombrovsky K.O., Sarabeev V.L., Tkach Ie.V. (2012) Utility Patent # 74081. Method of concentration of blue-green algae. Registered 10/10/2012.
2. Sarabeev V.L. (2016) Utility patent #03946. Methods of linear image preparation of sclerotized microscopic structures of animals. Registered 20/07/2016.

Workbooks for university students

1. Rubtsova N.Yu., Lebedeva N.I., Sarabeev V.L., Galchynska I.A. (2014) Introduction in Fish Culture: Lectons for bachelor students of biological speciality. Zaporizhzhia, ZNU, 100 P. [In Ukrainian].

2. **Sarabeev V.L.**, Rubtsova N.Yu., Lebedeva N.I., Gorban V.V. (2010) Methodical recommendation for laboratory works to course "General Parasitology", Zaporizhzhzia, ZNU, 79 P. [In Ukrainian].
3. Domnoch I.F., **Sarabeev, V.L.** & Kuzmenko Yu.G. (2003) Methodical recommendation for educational-field practice on course of Practical Ichthyology. Zaporizhzhzia, ZSU, 23 P. [In Ukrainian]

Educational film

Education video: "Sampling protocol of fish parasites" 2006.
<http://www.youtube.com/watch?v=IHHNOhrAoqI&feature=youtu.be>

Research expeditions

I led more than 30 field expeditions to sample fish and parasites around Azov-Black Sea localities in period between 1997 and 2014 and more than 10 around Spanish and French localities in period between 2001 and 2014.

Research and Production Projects in the aquaculture industry (project results emended in the production activity of the respective enterprise)

Current project

1. Hydrochemical, hydrobiological and parasitological studies of pond of Bilyansky village council, Poltavsky region to assess its suitability for aquaculture. For public corporation "Sapsan", *project director* Ref. Nr. 10/16. From August 2016 to August 2018.

Previous projects

2. Hydrochemical, hydrobiological and Ichthyologic studies of pond of 15 ha surface area of Tomakivshy village council, Dnipropetrovsky region to assess its suitability for aquaculture. For private enterprise Glusha OS, *project director* Ref. Nr. 13/14. From Jun to July 2014.
3. Hydrochemical, hydrobiological and Ichthyologic studies of two ponds of 1.4 and 1.7 ha surface area of Antonivsky village council, Zaporizhzhzia region to assess its suitability for aquaculture. For private enterprise Nosenko PI, *project director* Ref. Nr. 17/13. From October 2013 to July 2014.
4. Monthly parasite surveys of discuss. For private enterprise Boyko LI, *project director*, Ref. Nr. 11/13. From May to December 2013.
5. Development of biological justification and regime of aquaculture pond's usage of 20.46 ha surface area of Yasnopolansky village council, Zaporizhzhzia region. For private enterprise Voytsehosky VV, *project director*, Ref. Nr. 7/13. From April 2013 to October 2013.
6. Parasitological surveys of discus. For private enterprise Boyko LI, *project director*, Ref. Nr. 5/12. From May to December 2012.
7. Development of biological justification and regime of aquaculture pond's usage of Basansky village council, Zaporizhzhzia region. For private enterprise Rayeva AF, *project director*, Ref. Nr. 8/11. From August 2011 to February 2012.

Fellowships:

1. MEDEA fellowship #2686, Erasmus Mundus Action 2. University of Santiago de Compostela, Spain. From August 2016 to February 2017.
2. ELECTRA Postdoc fellowship #1300424, Erasmus Mundus Action 2. Polytechnics University of Valencia, Spain. From December 2014 to September 2015.
3. Search of hidden relationships in population dynamics of host-parasite system: development of predicting model. Ministry of Education and Science of Ukraine, Fellowship for secondments in University of Montpellier 2, France, from May to July 2012.
4. Parasite communities of grey mullets (*Mugil cephalus*, *Liza aurata*, *Liza saliens*) in Mediterranean waters as indicators of stock structure, harvest location and introduced species. Ministry of Education and Science of Spain, Ref. Nr. SB2003-0334. University of Valencia. From February 2005 to April 2006.
5. Mullet parasites as indicators of ecosystem health. Valencia Government of Spain, Postdoctoral Fellowship Ref. Nr. AINV06/029. University of Valencia. From July to December 2006.
6. Mullet parasites as pollution indicators in the Spanish Mediterranean. NATO Scientific Committee, Ministry of Science and Technology of Spain, Postdoctoral Fellowship Ref. Nr. 71/B/02/SP. University of Valencia. From February 2003 to November 2003.
7. Parasites of commercial fish species of grey mullets (Mugilidae) of the Azov, the Black and the Mediterranean Seas. INTAS Postdoctoral Fellowship for Young Scientist, Ref. Nr. YSF 01/1-0203. University of Valencia. From September 2001 to August 2002.

Research and Development projects

Current project

1. Creation, infrastructure development and management technology for community property in Ukraine. Ministry of

Education and Science of Ukraine, *person responsible*, Ref. Nr, 1/17. From April 2017 to December 2019.

Previous projects

1. Managing inland populations of large, piscivorous fish, from important commercial fisheries to invasive, economically harmful species. Ministry of Education and Science of Ukraine, *project director*, Ref. Nr, M/153-2007. From April to December 2007.
2. Mullet parasites as pollution indicators in the Mediterranean waters. Ministry of Education and Science of Ukraine, *project director*, Ref. Nr, M342/2003. From July 2003 to December 2004.
3. Evaluating the effect of an invasive species on local mullet communities in the Mediterranean: A parasite community approach. INTAS open call 2003, *team leader* of scientific project Ref. Nr. 03-51-5998. From March 2004 to August 2007.

Supervisor of PhD students:

1. Rubtsova N.Yu. Thesis: "Monogeneans of the genus *Ligophorus* (Dactylogyridae) (morphology, taxonomy, phylogeny, some aspects of relationships with hosts)", thesis defended in 2009.
2. Tkach E.V. Thesis: "Parasite communities of the introduced and native mullet species in the Sea of Azov (fauna, transmission and dynamics)", current PhD student.

I have successfully supervised more than 50 Master projects and more than 30 bachelor projects between 2003 and 2014.

Awards:

2017: Awarded a diploma "For achievement in scientific work" by Mayor of Zaporizhzhia.

2014: 1st place award "The best researcher of Zaporizhzhia National University in 2013".

2014: Awarded a diploma "For high achievement and honest work" from Rector of ZNU.

2011: Awarded a diploma "For achievement in scientific work" by State Regional Council.

2005: Awarded a diploma "For active development of a scientific work in the ZNU" by Zaporizhzhia National University for the year 2004/2005.

Member of editorial boards: Problems of Bioindication and Ecology; Bulletin of Zaporizhzhia National University, Biological Sciences.

Referee of research papers for: Vestnik Zoologii (permanent referee), Problems of Bioindication and Ecology (permanent referee), Bulletin of Zaporizhzhia National University, Biological Sciences (permanent referee), Journal of Parasitology, Folia Parasitologica, Acta Parasitologica, African journal of Biotechnology, Species Diversity, Systematic Parasitology, Vie et Milieu, Cahiers de Biologie Marine.

Animation and popularisation:

1. Press Conference "On the critical ecologic situation in the Kakhovka reservoir", 2013: <http://vesti.zp.ua/news/view/595-o-kriticheskoy-situatsii-na-kahovskom-vodohranilische-presskonferentsiya-video>;
2. Interview for central Ukrainian channel ICTV. How to save Kakhovka reservoir? <http://fakty.ictv.ua/ua/index/view-media/id/48328>
3. Round table "People and Environment in the third millennium", 2012: <http://justus.com.ua/ua/news/2013/10/03/29516/>
4. Interview for central Ukrainian media. "Is it safe to eat fish from Dnieper?" 2012: <http://vikna.stb.ua/ua/2012/10/15/rekordny-j-ulov-chervej-mozhno-li-est-ry-bu-iz-dnepra/> ; http://zp.vgorode.ua/news/dosuh_y_eda/140804/ ; <http://silaslova.zp.ua/obshestvo/110-mest-chervejj-rybe.html>
5. Round table "Ecological problems of Zaporizhzhia region and ways of their solution", 2010: http://sites.znu.edu.ua/news_details/news_id=8738&lang=rus

Miscellaneous

Language skills: Native languages: Russian and Ukrainian.

Fluent in English.

French – DELF B1.

Spanish – A2.

I have five years spearfishing experience.

5. Capacity of the Participating Organisations

Beneficiary: UPMC, OOB	
General Description	Marine Station (Observatory) of the Université Pierre et Marie Curie (UPMC) and the Centre National de la Recherche Scientifique (CNRS)
Role and Commitment of key persons (supervisor)	Yves Desdevises, Professor, Doctor habilitat, Ph.D, supervisor Pascal Romans, head of the CRBM, Ph.D, field study and material sampling PhD student, fish surveys Technical staff, DNA extraction and sequencing
Key Research Facilities, Infrastructure and Equipment	Laboratories: Laboratories and climate control rooms with access to all basic research equipment, with technical support. Access to library, computer and video equipment, database on local environmental physico-chemical and biological factors, and European database on copepods. Platforms: Marine Biotechnology and Biodiversity (BIO2MAR bio2mar.obs-banyuls.fr , fully equipped for molecular biology); Cytometry platform, one of the best equipped in Europe with solid phase- and fountain flow cytometers; Imaging platform with a transmission electron microscope and a two-photon laser scanning confocal microscope; Culture platform (new equipment) for mass production of microorganisms. Marine facilities: The Nereis vessel (14 m long) certified to work up to 20 miles from the coast and the Rufi (7 m long) dedicated to littoral work and diving. Access includes all onboard research equipment, and technical support from the vessel crew.
Independent research premises?	All research facilities owned by beneficiary: buildings, fully equipped laboratories, specific scientific equipment, hosting centre and vessels
Previous Involvement in Research and Training Programmes	2012-2016: Grant from the National Agency of Research (ANR, France, 3.5 years). "DECOVIR: Diversity and Environmental Control of Prasinoviruses" (Principal Investigator: Yves Desdevises); Grant from the National Agency of Research (ANR, France, 3.5 years). "REVIREC: Resistance to prasinoviruses analysed by transcriptomics and recombination" (PI: Nigel Grimsley, CNRS, OOB) 2011: Grant from the Institut National des Sciences de l'Univers (INSU, CNRS, France), project Ecosphère Continentale et Côtière (EC2CO, 2 years). "BIOVIR: Spatio-temporal monitoring of the biodiversity of viruses from microalgae" (PI: Yves Desdevises) 2009-2010: Grant in a Hubert Curien Partnership (2 years) with Croatia (Cogito project). "Molecular assessment of transfers of monogenean parasites between wild and cage-reared sparid fish" (PI: Yves Desdevises and Ivona Mladineo, Institute of Oceanography and Fisheries, Split) 2007-2010: Grant from the National Agency of Research (ANR, France, 3 years). "PICOVIR: Picophytoplankton-virus interactions in a marine ecosystem" (PI: Nigel Grimsley, CNRS, OOB) 2005-2008: Grant from the National Agency of Research (ANR, France, 3 years). "Macroevolutionary approaches of plants-insects-bacteria associations" (PI: Emmanuelle Jousselein, INRA)
Current involvement in Research and Training Programmes	OOB is a founding member of the EMBRC network (European Marine Biological Resource Centre), an ERIC infrastructure 2017-2018: Grant from Sorbonne-Universités (Call <i>Emergence</i>) for the project "MICROFISH: The microbiota of Teleosts : interactions with the environment" (PI: Yves Desdevises)
Relevant Publications and/or research/innovation products	Nathalie S., Foulon E., Grulois D., Six C., <u>Desdevises Y.</u> et al.. 2017. Revision of the genus <i>Micromonas</i> (Manton et Parke) (Chlorophyta, Mamiellophyceae), of the type species <i>M. pusilla</i> (Butcher) Manton & Parke and of the species <i>M. commoda</i> (van Baren, Bacry and Worden) and description of two new species based on the genetic and phenotypic characterization of cultured isolates. <i>Protist</i> , in press. Romain B.M., Krasovec M., Hebrard M., Yau S, Desgranges D., Martin J., Schackwitz W., Kuo A., Salin G., Donnadieu C., <u>Desdevises Y.</u> et al. 2017. Population genomics of picophytoplankton unveils novel chromosome hypervariability. <i>Science Advances</i> , in press. Medlin Linda K. & Desdevises Y. 2016. Phylogeny of 'araphid' diatoms inferred from SSU and LSU rDNA, rbcL and psbA sequences. <i>Vie et Milieu</i> 66(2): 129-154. <u>Desdevises Y.</u> , Morand S., Krasnov B & Claude J. 2015. Comparative analysis - recent developments and uses with parasites, in <i>Parasite diversity and diversification: evolutionary ecology meets phylogenetics</i> by Serge Morand, Boris Krasnov & Tim Littlewood (eds). Cambridge University Press. Sarabeev V. & <u>Desdevises Y.</u> 2014. Phylogeny of the Atlantic and Pacific species of <i>Ligophorus</i> (Monogenea: Dactylogyridae): morphology vs. molecules. <i>Parasitology International</i> 63(1): 9-20. Mladineo I., Šegvić-Bubić T., Stanić R. & Desdevises Y. 2013. Morphological plasticity and phylogeny in a monogenean parasite transferring between wild and reared fish populations. <i>PLoS One</i> 8(4), e62011. Desdevises Yves. 2006. Determinants of parasite species richness on small taxonomical and geographical scales: <i>Lamellodiscus</i> monogeneans of northwestern mediterranean sparid fish. <i>Journal of Helminthology</i> 80: 235-241.

Partner Organisation: RNMCB	
General description	Réserve Naturelle Marine de Cerbère-Banyuls 5, rue Roger David, 66650 Banyuls-sur-Mer, Tél. 04 68 88 09 11 In partnership agreement with beneficiary
Key Persons and Expertise (supervisor)	Frédéric Cadene, Conservateur, results implementation in management plan of the reserve Jérôme Payrot, Head scientist, field study of fish assemblage and density, results implementation.
Key Research facilities, infrastructure and equipment	Office, Marine Reserve vessel (7 m long) dedicated to littoral work and diving. Staff: 5 agents and 6 seasonal agents
Previous and Current Involvement in Research and Training Programmes	Participation to the Medchange programme since 2006 Participation to the MedPAN exchanges in 2012 Assessing the status of populations, annual
Relevant Publications and/or research/innovation product	Bertucci F., Lejeune P., Payrot J., Parmentier E. 2015 Sound production by dusky grouper <i>Epinephelus marginatus</i> at spawning aggregation sites. Journal of Fish Biology 87(2), 400–421. Koeck B., Pastor J., Saragoni G., Dalias N., Payrot J., Lenfant P. 2014. Diel and seasonal movement pattern of the dusky grouper <i>Epinephelus marginatus</i> inside a marine reserve. Mar Environ Res 94: 38–47. Pauline I., Payrot J., Verdoit-Jarraya M. 2010. A recreational fishery survey inside and outside a marine protected area (north-western mediterranean) over one year: typology, seasonal variability and reserve's influence. Mémoire Master. Université Montpellier.
Partner Organisation: UM	
General description	Université de Montpellier, CIRAD AGIRS, Doctoral School GAIA CIRAD AGIRS, Doctoral School GAIA TA C-22 / E, Campus international de Baillarguet, 34398 Montpellier Cedex 5 - France 34398, Montpellier
Key Persons and Expertise (supervisor)	Serge Morand, Professor, Doctor habilitat, comparative studies of parasite assemblages, modelling of host-parasite relationships Julien Claude, assistant professor at ISEM, Study the effect of parasites on the fitness
Key Research facilities, infrastructure and equipment	The doctoral School GAIA unites more than 50 research units, including Animal integrated risk management unit (AGIRs). AGIRs can provide all lab facilities and equipments for trainings and conducted researches at high standards in the fields of molecular biology, population dynamics and ecology. The AGIRs is furnished with state-of-the-art and excellent facilities for fish parasitology and epidemiology. The ISEM has several platform facilities for mass spectrometry analyses, morphometrics, molecular biology, cytogenomics and intensive calculus. Moreover, several labs are fully equipped for light microscopy, molecular biology. The library of the AGIRs is one of the biggest library for evolutionary sciences, with online access to relevant indexing services such as Web of Sciences, Science Citation Index, Medline and Helminthological Abstracts.
Previous and Current Involvement in Research and Training Programmes	Currently the team of AGIRs is executing 5 R&D projects (http://ur-agirs.cirad.fr/en/projects): Biodiversity Scenarios under the effect of climate change and future deforestation in Madagascar-BioSceneMada. Supported by Fondation pour la Recherche sur la Biodiversité and Fond Français pour l'Environnement Mondial. 2014-2019; Companion Approach for Cross-sectoral collaboration in health risks management in SEA – ComAcross. Supported by EuropeAid, European Commission. 2014-2018; Reinforcement of Agricultural and Environmental RESEARCH in TFCAs (Transfrontier Conservation Areas) – DREAM. Supported by EuropeAid, European Commission. 2013-2017; Apport de la telemetrie et de la teledetection à la cartographie du risque de transmission du virus Nipah à l'interface environnement, chauves-souris, hommes au Cambodge – TELENipah. Supported by Centre National d'Etudes Spatiales. 2015-2018; Southeast Asia encephalitis – SEAE Supported by The French National Alliance for Sciences Life and Health (Aviesan), Total Foundation, European Commission. 2012-2017.
Relevant Publications and/or research/innovation product	Morand S, Krasnov, Littlewood T (eds) (2015) Parasite diversity and diversification: evolutionary ecology meets phylogenetics. Cambridge University Press. Morand S, Dujardin J-P, Lefait-Rollin R, Apiwathnasom C (eds) (2015) Socio-ecological dimensions of Infectious Diseases in Southeast Asia, Springer Singapore. Claude J. (2008) Morphometrics with R. Springer, New York

6. Ethical Issues

The sampling plan implies to collect both fish yearly life-history ages and adult fish. Adult fish will be collected by spear-fishing or obtained in local fish markets or directly from fishermen. Mullet from the market are generally dead. Preferably, dead fish, but as fresh as possible, will be collected for the project. Individuals caught by spear-fishing will be immediately euthanized by a blow on the head. The fish yearly life-history ages will be caught by fry dragnet. Only the required number of the most prevalent species of grey mullets will be sampled for subsequent analysis, while the remaining individuals will be carefully put back in the sea. Living fish will be euthanized by an overdose of tricaine methanesulfonate (MS 222), a commonly used fish anaesthetic. Only dead fish will be surveyed for parasites. Thirty fish specimens are defined as the minimum size of each sample unit (e.g. locality, season) for a general parasite survey. Samples of 25-40 fish permit to detect parasites if their prevalence is 10% or more. The detection of rare parasites requires greater sample size. Out of five common grey mullets inhabiting the NW Mediterranean the single most prevalent species within mullet assemblages in the studied areas will be selected in the present study to meet ethical requirements concerning animal research. Sampled fish will be disposed according to institutional regulations for the disposal of biological materials. During this project, we will insure that the fish used will be exploited in the most complete way possible, and be used for meristic, parasitological and molecular surveys. The grey mullets are common in the Mediterranean and are subjects to fishery.

Fish will be sampled from fished open-access areas in coastal waters off Cap de Creus and lagoons on delta of the Ebro, Spain. For this reason, no permission is required for the collection of grey mullets from these localities. Samples from protected area of Natural Marine Reserve of Cerbere-Banyuls will be done in zones with regulated fishery under help and supervision of the marine reserve staff. The NMRCB will be involved in the project execution and results dissemination in frameworks of the partner organization according to the previous arrangement.

ENDPAGE

MARIE SKŁODOWSKA-CURIE ACTIONS

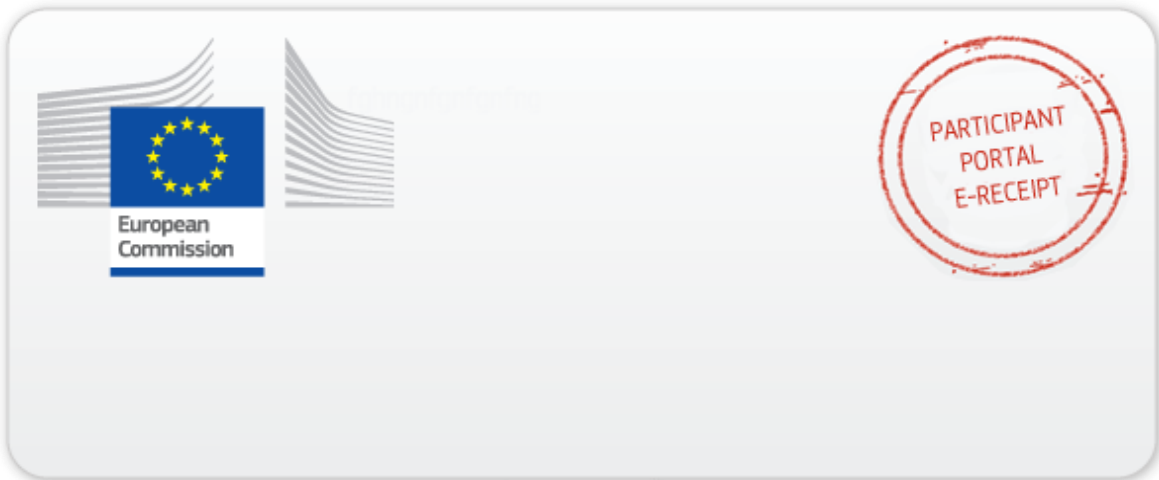
**Individual Fellowships (IF)
Call: H2020-MSCA-IF-2017**

PART B

“PARASITES OF MPA”

This proposal is to be evaluated as:

[Standard EF]



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