

## Curriculum Vitae Dr. Sergey Dobretsov

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Google Scholar: <http://scholar.google.com/citations?user=melxUqMAAAAJ&hl=en>

Research Gate: [https://www.researchgate.net/profile/Sergey\\_Dobretsov](https://www.researchgate.net/profile/Sergey_Dobretsov)

### **SUMMARY OF EXPERIENCE**

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An academia leader with more than 26 years of teaching and 28 years of research experience in several countries (Russia, Hong Kong, Germany, USA, UK, Oman, Brazil) with increasing operational responsibilities in managing and developing people, leading teams and managing research projects. Project leader of teams that delivered new innovative solutions led to 5 international patents. An active board member of leading marine biotechnology committees and societies and an internationally recognized scientific expert (Google h-index = 36) in aquatic sciences and microbiology with over 90 published articles, 2 books and 10 book chapters, leading history of high quality research, and > US\$1.5 million of federal, provincial and industrial funding. Dr. Dobretsov is the president of European Society for Marine Biotechnology. He is an editorial board member of Biofouling and Marine Ecology Progress Series journals.

### **EDUCATION**

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**1993-1998: Ph.D. in Science of Biology**, St. Petersburg State University, Russia (advisor: Prof. A.I. Railkin)

**1994: Marine Biology and Human Impact**, Denmark's International Study Program (DiS), Copenhagen University, Denmark

**1985-1991: M.Sc. in Biology**, with an award. Leningrad State University, Russia (advisor: Prof. L.N. Seravin)

### **CAREER HISTORY**

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**2016 – now: Director of [Center of Excellence in Marine Biotechnology](#)**, Sultan Qaboos University (SQU), Sultanate of Oman;

- Revised mission, vision, objectives and strategies of the Center;
- Established scientific and steering committees for the Center;
- Started microalgae culture research at the Centre;
- Built connections with industrial partners (aquaponics and aquaculture companies) and governmental organisations from Oman, Singapore, UK, South Africa, Italy, and Russia (Sur College, National University of Singapore, Portsmouth University, University of South Africa, University of Naples, Joint Institute of Nuclear Physics);
- Constructed an aquaponic facility at the Center;
- The number of publications of the Centre increased 4-fold and the number of workshops increased 2-fold;
- The centre has attracted > US\$ 1.7 mil. for research funding;

- Visibility of the Center has been improved through series of media and public presentations;
  - The Centre is organized the 2<sup>nd</sup> International Marine Biotechnology Conference in 2017 and conducted several training in electron microscopy and genetics.
- 2014 – 2017: Head of Department, [Marine Science and Fisheries](#), SQU, Sultanate of Oman;**
- Increased the number of department's peer review publications and research grants in 1.5 and 1.2- folds, correspondingly;
  - Established the new international connections with East Anglia University (UK), Newcastle University (UK), Second University of Napoli (Italy), Wageningen University (Netherlands), IFREMER (France) and KTH (Sweden);
  - A review of department teaching programs has been initiated; English language courses have been revised in order to improve our students language proficiency; four new courses in aquaculture have been developed and taught; learning outcomes for courses have been revised.;
  - Started the degree program accreditation;
  - Doubled the number of MSc and PhD students at the department;
  - The first PhD student graduated the department in 2015; the total of 3 PhD students graduated;
  - Visibility of the department has been improved through series of newspaper presentations, workshops and presentations;
  - An international conference on marine research of the Indian ocean and water treatment nanotechnology was organized in 2015;
  - Three new faculties, one technical staff and a labourer have been recruited.
- 2012 – now: Associate Professor, Dep. Marine Science and Fisheries, SQU, Oman. Full Professor title was suspended due to budget cut.**
- Teach undergraduate (UG) and postgraduate (PG) courses in English (average 3 courses (48 contact hours) courses per year);
  - All courses use on-line Moodle teaching platform;
  - Graduated: 4 PhD and 8 MSc students;
  - Serve in the Department Board, College Board, College Executive, College Academic Promotion, Thesis examination and National Animal Biodiversity committees;
  - Review research international manuscripts (average 39 per year), international grant proposals (average 2 per year) and thesis of local (average 5 per year) and international (average 1.5 per year) MSc and PhD students;
  - Leader of the Biofouling Project Oman research group ([www.biofouling.org](http://www.biofouling.org) ; [www.facebook.com/biofoulingoman/](https://www.facebook.com/biofoulingoman/));
  - Conduct research projects about microplastic, algal toxins, microbial fouling; nanotechnology; marine biofilms and their eradication; marine natural products; oil bioremediation;
  - Since promotion published 34 peer-reviewed high impact factor publications;
  - Developed new courses: Marine Microbiology, and Ocean and Human Health;
  - Attracted more than 725,000 USD as research grants.
- 2007 – 2012: Assistant Professor, Dep. Marine Science and Fisheries, SQU, Oman**
- Taught UG and PG courses (2 courses per semester) and supervised 7 MSc and 2 PhD students;
  - Consulted private companies and Ministries about food safety, toxins and biofouling;

- Conducted research projects about biofouling in Oman waters; bioactive compounds from marine microorganisms; and harmful algal blooms;
  - Attracted more than 500,000 USD as research grants;
  - Published 25 scientific peer-reviewed high impact factor publications;
  - Promoted in 2012 to the Associate Professor by international reviewers and the local promotion committee based on the excellence in research, teaching and community service.
- 2007 – 2010: George E. Burch Fellowship** [in Theoretical Medicine and Affiliated Sciences](#), Smithsonian Institute, USA
- Fellowship is given for the most distinguished world scientists in theoretical medicine;
  - Project involved investigation of quorum sensing and its inhibition in cyanobacteria;
  - Resulted in 5 peer review publications;
  - A new QS inhibitory pathway was discovered.
- 2006 - 2007: Alexander von Humboldt Research Scholar**, Benthic Ecology, IFM-GEOMAR, Kiel University, Kiel (host - Prof. M.Wahl).
- Investigated ecology of microbial and benthic communities in the Baltic Sea;
  - Supervised German and international PG students;
  - Developed a microbiology lab;
  - Published 8 scientific publications.
- 2003 - 2006: Research Associate**, Biology Dep., [Hong Kong University of Science and Technology](#), Hong Kong (supervisor Prof. P-Y Qian).
- Described new bacterial species and investigated microbial-larval interactions and development of microbial communities on different substrata;
  - Applied and received 1 research grant;
  - Published 35 peer review publications;
  - Co-supervised a PhD student.
- 2001-2003: Visiting Scholar**, Biology Dep., Hong Kong University of Science and Technology, Hong Kong (supervisor Prof. P-Y Qian).
- Isolated several antibacterial and antifouling compounds from marine organisms;
  - Managed the East Sha Chau benthic rehabilitation project;
  - Developed and helped in patenting of 3 scientific discoveries;
  - Co-supervised a PhD student;
  - Published 8 peer-review publications.
- 2000 –2001: Assistant Professor**, Invertebrate Zoology Dep. [St. Petersburg State University](#), Russia (left to accept offers from HKUST)
- Taught and supervised UG and PG students;
  - Investigated larval dispersal and population dynamics of mussels at the White and Barents Seas;
  - Increased aquaculture yield of blue mussel;
  - Attracted more than 70,000 USD as research grants.
- 1991 – 1999: Research Fellow**, Biological Research Institute, St. Petersburg State University, Russia (supervisor Prof. A. Railkin).
- Taught and supervised UG and PG students;
  - Investigated the effect of abiotic (salinity, temperature) and biotic factors (phytoplankton, micro- and macro-biota) on the distribution and recruitment of mussel larvae;

- Developed an “environmentally friendly” coating against fouling together with the paint company “Pigment” (Russia).

## **TRAINING**

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### *Post-doctoral experience*

#### Germany

**2006-2007:** IFM-GEOMAR Leibniz institute for Marine Sciences (now [GEOMAR](#), Helmholtz Centre for Ocean Research), Kiel. Investigated chemical interactions between benthic organisms (host Prof. M. Wahl);

**2006:** [Max Planck Institute for Marine Microbial Ecology](#), Bremen. Developed a CARD-FISH technique for analysis of bacterial communities on algae (host Prof. R. Amann);

#### Hong Kong

**2001-2003:** [Hong Kong University of Science and Technology](#), Hong Kong. Isolated bioactive compounds from marine bacteria (host Prof. P-Y Qian).

### *Learning courses*

Adding resources: Adding resource from the SQU libraries to Moodle", Center for Preparatory Studies, SQU, 3 January 2017;

Outcome based learning education organized by Center of Education Learning, Oman, March 2016;

Professional Development Series organized by College of Agricultural and Marine Sciences, Oman, March 2015;

Professional Development Series organized by College of Agricultural and Marine Sciences, Oman, April 2014;

Professional Development Series organized by College of Agricultural and Marine Sciences, Oman, March – April, 2013;

How to publish a scientific journal article. Organized by Springer and Edanz, Oman, February 2013;

eLearning webinar for Mastering Microbiology, Organized by Pearson, UK, 2012;

eLearning webinar "University venture funding", University of Rochester Technology Development Fund, March 2012;

Effective supervision of postgraduate students. Center for Excellence in Teaching and Learning, SQU, Oman, March 2011;

Outlines for active learning courses. Center for Educational technology, SQU, Oman, May 2009;

Moodle – an online course management system. Center for Educational technology, SQU, Oman, May 2008;

## **TEACHING EXPERIENCE**

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**2016: new UG lecture course Sultan Qaboos University, Oman (instruction language English)**

The new course “Oceans and Human Health” (3 credits = 48 contact hours) has been developed and taught.

**2012-now: PG lecture courses Sultan Qaboos University, Oman (instruction language English)**

“Marine Biotechnology” (3 credits), MASF 6007; this course has been significantly revised as a problem based course with enhanced practical experience of students.

**2007-now: UG lecture courses Sultan Qaboos University, Oman (instruction language English)**

"Marine Microbiology" (3 credits), MASF 3094; this course has been developed and taught;

"Marine Natural Products" (3 credits), MASF 4100 course has been developed and taught;

"Marine Tourism" (3 credits), MASF 3100 course has been significantly revised and taught.

**2013, 2016: UG lecture courses Sultan Qaboos University, Oman (instruction language English)**

Taught "Critical Reading" (3 credits), MASF 4001 as one of several instructors.

**2008-2009: UG lecture courses Sultan Qaboos University, Oman (instruction language English)**

Taught "Computer Applications II" (2 credits), CAMS 2001;

Taught "Marine Biochemistry and Molecular Biology" (3 credits), MASF3093 as one of several instructors.

**2008-2014: UG lecture courses Sultan Qaboos University, Oman (instruction language English)**

"Marine Science Practicum" (3 credits), MASF 3021; course has been revised and taught.

**2006-2007: Lecture course Kiel University, Germany (instruction languages English & German)**

"Biofouling and Epibiosis" (20 contact hours) for MSc students.

**Fall 2005: Lectures** in Marine Biology for undergraduate students, Hong Kong University of Science and Technology, Hong Kong (instruction language English).

**Summer 2005: Instructor, Hong Kong University of Science and Technology**, organized and taught summer course "Marine Biotechnology" (26 contact hours) for UG students.

**2004: Invited lecture**, Mollusca for UG students, Baptist University, Hong Kong.

**Summer 2002: Instructor, St. Petersburg State University, Russia.** Head of summer practice

Lectures and a practical course for undergraduate students on biology and ecology of marine pelagic and benthic animals (26 contact hours, instruction language Russian);

Supervise and mentor 80 UG students (210 contact hours).

**1999 –2001: Lecture courses St. Petersburg State University, Russia (instruction language Russian)**

"Sessile invertebrates" (18h) for MSc students;

"Invertebrate Zoology" (132h) for UG students;

"Marine Ecology" (64h) for UG students;

"Marine Biology" (64h) for UG students.

**Summers 1997; 1998; 1999; 2000; 2001; Instructor, St. Petersburg State University, Russia.**

Taught a field course of invertebrate zoology (140h) for UG students.

**1993 -1994: Lecturer**, Leningrad Region Pedagogical Institute, Russia (instructor language Russian)

"Environmental Change" (80h) for UG students;

"Zoology" (80h) for UG students;

The summer course "Zoology" (130h) for UG students.

**1991 -1993: Teacher of Biology**, Secondary Schools No 225 and No 237, St. Petersburg, Russia. Teaching load include teaching 14 contact hours per week.

## **AWARDS, DISTINCTIONS AND FELLOWSHIPS**

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- 2017: best publication award** at SQU Medical journal
- 2017:** my Ph.D. student Ms. Al-Naamani won the **best student thesis award**, Sultan Qaboos University, Oman
- 2016:** My PhD student Ms. Sathe won the **student travel award** from [Office of Naval Research Global](#), USA.
- 2016:** My PhD student Ms. Al-Naamani won **the best oral presentation** in marine biotechnology during 18<sup>th</sup> International Congress on Marine Corrosion and Fouling, France.
- 2015: Top N5** scientist in Oman according to [Ranking Web of Universities](#) .
- 2015:** SQU journal publication award in 2014
- 2014: Top N8** scientist in Oman according to Ranking Web of Universities.
- 2014: Invited speaker** at 17<sup>th</sup> International Congress on Marine Corrosion and Fouling, Singapore sponsored by Office of Naval Research Global (USA);
- 2014:** my Ph.D. student Ms. T.Muthukrishnan won the **student travel award** from Office of Naval Research Global, Singapore, USA;
- 2014:** SQU journal publication award in 2013
- 2013-2014: CNPq fellowship**, Science without frontiers, Brazil, for the investigation of quorum sensing inhibitors from marine organisms. Collaborator - Prof. Ricardo Coutinho, IEPM;
- 2013:** Ms. Nicole Schwartz's **visit** to Oman was supported by German academic exchange service ([DAAD](#)), Germany
- 2012:** Alexander von Humboldt Foundation **research fellowship**, Germany;
- 2012:** my Ph.D. student Ms. Muthukrishnan won the **student travel award** at 16<sup>th</sup> International Congress on Marine Corrosion and Fouling, Seattle, USA;
- 2012: Session chair**, 16<sup>th</sup> International Congress on Marine Corrosion and Fouling, Seattle, USA ;
- 2012:** the **award from the Vice Chancellor** for the participation in the Committee for preparation for Korean Expo on Oman's Marine Environment;
- 2011:** SQU **Distinction in Research** Award 2010 in recognition of the exceptional performance in research in the College of Agricultural and Marine Sciences, Sultan Qaboos University, Sultanate of Oman;
- 2008:** My M.Sc. student Ms. Al Wahaibi won the **best student poster award** at the 1<sup>st</sup> Euro-Mediterranean Conference on Marine Natural Products, Sharm El-Sheikh, Egypt;
- 2007-2010: George E. Burch Fellowship** in Theoretical Medicine and Affiliated Sciences, Smithsonian Institute, USA;
- 2006-2007: Alexander von Humboldt** Foundation **research award**, Germany;
- 2004:** my PhD student Ms. Huang at HKUST won the **best student poster** award at 6<sup>th</sup> International Larval Biology Conference, Hong Kong;
- 1998: Fellowship** #M98 for young scientists, Mayor of St.Petersburg, Russia;
- 1997: Marine Ecology Fellowship**, Otto-Kinne Foundation, Germany;
- 1997: Fellowship** # M97-2.4K-110 for young scientists, Mayor of St. Petersburg, Russia.
- 1996: Fellowship** # M96-138-24 for young scientists, Mayor of St. Petersburg, Russia.
- 1991: Award** for MS thesis, by Society of the Explorers of St. Petersburg, Russia.

## **VISITING PROFESSOR POSITIONS**

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- 2017:** Visiting Professor [Universidad Catolica del Norte](#) , Chile

**2017:** Visiting Professor [Shanghai Ocean University](#), China  
**2016:** Visiting Professor [UNISA](#), Johannesburg, South Africa  
**2016:** Visiting Professor [KTH](#), Stockholm, Sweden  
**2014:** Visiting Professor [Toulon University](#), France  
**2014:** Visiting Professor [Shanghai Ocean University](#), China  
**2013:** Visiting Professor [UFF](#), Niteroi, Brazil  
**2012:** Visiting Professor [Dusseldorf University](#), Germany  
**2007-2011:** Visiting Professor [Smithsonian Marine Station](#), Smithsonian Institute, Fort Pierce, FL, USA  
**2006-2007:** Visiting Lecturer [Newcastle University](#), School of Biology, UK

## **PROFESSIONAL AND PUBLIC SERVICE**

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### *International*

- **President**, European Society of Marine Biotechnology (ESMB, 2018-now)
- **Board member** of the Comité International Permanent pour la Recherche sur la Préservation des Matériaux en Milieu Marin (COIPM), an international committee for research into material protection in the marine environment (2015- now), European Society of Marine Biotechnology (ESMB, 2016 – now)
- **Member**, Federation of European Microbiological Societies (FEMS, 2011- now)
- **Member**, International Biodeterioration and Biodegradation Society (IBBS, 2011- now)
- **Member**, International Society of Microbial Ecology (ISME 2008-2012)
- **Member**, International Society of Microbial Ecology (ISME 2008-2012)
- **Member**, International Bryozoological Association (IBA; 1990-2001)
- **Member**, American Society of Limnology and Oceanography (ASLO; 1991-1998)
- **Review Editor**, journal of *Marine Ecology Progress Series* (since 2009)
- **Editorial Board**, journal of *Biofouling* (since 2013)
- **Reviewer** for QS global academic ranking survey 2015-2018 (Oman, Europe and Asia)
- **Reviewer** 2<sup>nd</sup> edition of the book [Marine Microbiology](#) by C. Munn (2010) and book [Algae and cyanobacteria symbiosis](#) by Grube, Seckbach, Muggia (2017)
- **Review Editor** of [Marine Ecology Progress Series](#) (since 2009)
- **Editorial Board** of [Biofouling](#) (since 2013)
- **Reviewer of the journals:** *Journal of Marine Biological Association of UK* (since 2004), *Biofouling* (since 2004), *Journal of Marine Systems* (since 2004), *Marine Ecology Progress Series* (since 2005), *Aquaculture* (since 2005), *Marine Biology* (since 2006), *Marine Biotechnology* (since 2006), *Limnology and Oceanography* (since 2008), *Aquatic Biology* (since 2009), *Environmental Science and Technology* (since 2009), *Journal of Applied Microbiology* (since 2009), *International Journal of Microbiology* (since 2010), *Journal of Marine Biology* (since 2010), *PLoS ONE* (since 2010), *World Journal of Microbiology and Biotechnology* (since 2010), *Aquatic Microbial Ecology* (since 2010), and *African Journal of Biotechnology* (since 2011), *Marine Drugs* (since 2011), *Molecular Ecology* (since 2011), *Journal of Experimental Marine Biology and Ecology* (since 2011) and *ISME Journal* (since 2011), *International Biodeterioration and Biodegradation journal* (since 2013). **On average review 39 per year**
- **Reviewer of the grant agencies:** *South Africa's National Research Foundation (NRF)* (2006), *Hong Kong Research Grant Committee* (since 2008), *Research Council of*

*Oman* (TRC, since 2011), the *Cluster of Excellence "Future Ocean"* IFM-GEOMAR, Kiel, Germany (2008), *National Science Foundation* (NSF, USA, since 2012), the *French National Research Agency* (*Agence Nationale de la Recherche*, 2012), the *Czech Science Foundation* (since 2013). **On average 1.5 per year**

- **External examiner**
  - for PhD thesis, the University of New South Wales, Australia, National University of Singapore, and University of the Western Cape, South Africa, **on average 1 per year**
  - for MSc thesis at Sultan Qaboos University and University of KwaZulu-Natal, South Africa, **on average 5 per year**
- **Organizer of symposia and conferences**
  - International conference “Second GCC Marine Biotechnology conference, 31 October – 1 November 2017, Muscat, Oman
  - Mini-workshop “Seaweeds and their use in Oman”, October 25, 2016, CAMS, SQU
  - Workshop “Chemical ecology of marine macroalgae”, Coquimbo, Chile 22-24 July 2017
  - International conference “Nanotechnology for Water Treatment and Solar Energy Applications”, 15-16 December 2016, Muscat, Oman
  - The second International Conference on Fisheries, Aquaculture and Environment in the Indian Ocean; 24-26, February 2015, Muscat, Oman
  - Marine Biotechnology Symposium, Muscat, Oman 12-13 November 2013, Muscat, Oman
  - 31<sup>st</sup> European Marine Biological Symposium, St. Petersburg, Russia
- **Keynote speaker and chair of conferences**
  - Invited keynote speaker for the Meeting of the Society of European Marine Biotechnology, 30 September 2015, Gothenburg, Sweden
  - Keynote speaker for Microfouling session, 17<sup>th</sup> International Congress on Marine Corrosion and Fouling, June 2014, Singapore
  - Chair, Microfouling session, 16<sup>th</sup> International Congress on Marine Corrosion and Fouling, June 24-28, 2012, Seattle, USA

#### *National*

- Member of Oman Animal and Plant Genetic Resources Center (OAPGRC) Scientific Committee.
- Member of Oman Center of Marine Biotechnology (OCMB) Scientific Committee.
- Member of the following committees: Expo Uoso Korea 2012 (Oman), Marine Biotechnology (Oman), College Board (College, SQU), College Academic Promotion System Team (CAPS, SQU), Research (College, SQU), Scientific (College, SQU), Web (College, SQU), Biosafety (College, SQU), thesis committee (SQU).
- Member of MSc and PhD thesis committee (Sultan Qaboos University, since 2007)
- Member, the Russian Society of Protozoologists (Russia)
- Member, Society of the Explorers of St.Petersburg (Russia)

#### **ADMINISTRATION**

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- College Board,
- College Executive Committee,
- College Planning and Development Committee,



- Human Resources & Staff Development Committee,
- Staff/Student Liaison Committee,
- College Academic Promotion System Team CAPS,
- Director of the Center,
- Head of MSF Department (2014-2017),
- Department Board,
- Department Promotion committee,
- Contract renewal committee and recruitment committee.

## **STUDENTS**

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### PhD students:

2017-now: Liss Cárdenas Hinojosa, "Chemical defence of native and invasive Chilean algae", Universidad Catolica Del Norte, Chile. Member of Thesis committee

2015- now: Rufaida Dhuhai Gharib Al Breiki "Genetic diversity and connectivity of spine lobster populations in Indian Ocean", supervisor

2015- now: Sithara Suresh "Preservation of broccoli and its antioxidant activity". Member of Thesis committee

2015- now: Nader Al-Abri, "Ichthyoplankton in Oman waters". Member of Thesis committee

2014- now: Maral Khosravi (Shahid Beheshti University, Iran), "Impact of climate change on biofouling communities". Member of Thesis committee

2016-2017: Sumaya Habib "Application of Nano photocatalysis in the Pretreatment of Seawater Reverse Osmosis Desalination" main supervisor; moved to Australia due to family reasons;

2014 - 2017: Priyanka Sathe, "Prevention of biofouling using photocatalytic ZnO nanotechnology applications", supervisor, completed

2013 – 2017: Laila Salem Hashel Al Naamani, "Chitosan and Chitosan-ZnO nanocomposites for active food packaging and biofouling prevention", supervisor, completed

2011 – 2016: Thirumahal Muthukrishnan, "Quantitative and qualitative study of microbial biofilms on marine antifouling coatings", supervisor, completed

2011- 2016: Samiha Rashid Ali Al Kharusi, "Biodegradation of oil polluted sites in Oman". Member of Thesis committee, completed

2012-2016: Nicole Schwartz, "Why are aliens so successful? Explaining the invasion success of *Sargassum muticum*" visiting PhD student, supported by DAAD, Carl-von-Ossietzky-University Oldenburg, Institute for Chemistry and Biology of the Marine Environment (ICBM), Germany. Member of Thesis committee, completed.

2011: Annika Vaksmaa, "Development of microbial biofilms on anti-fouling coatings and their effect on larval settlement"; main supervisor, dropped due to family reasons;

2010: Dareen Al Mojil, "Genetic and chemical comparison of rays from the Sultanate of Oman", co-supervisor with Dr.A. Henderson, dropped due to health reasons;

2003- 2006: Huang Y-L., "Potential role of bacterial quorum sensing and biofilm formation in the biofouling process", co-supervisor with Dr. P.Y. Qian;

2001-2003: Ho A.Y.T., "Role of *Alexandrium* bacterial symbionts in toxin production", co-supervisor with Dr. P.Y. Qian and Dr. P.H. Hsieh.

### MSc students:

2017- now: Ahlam Sulieman, "Toxins produced by harmful algae in Oman waters", supervisor, in progress;

2017- now: Muna Al-Tarshi, "Nature and abundance of microplastic in different beaches in Oman", co-adviser with Dr. Michel Claereboudt, in progress;

2015- 2017: Yasmin Hamed Ali Al Alawi, "Microbial biofouling and its prevention in spiny lobster aquaculture", supervisor, completed;

2015- 2017: Sumaiya Hilal Said Al Riyami, "A study to assess the genetic structure of tropical spiny lobster (*Panulirus homarus*) in Dhofar governorate", co-adviser with Dr. M. Delghandi, completed;

2015- 2017: Sultana Sulaiman Humaid Al Jardani, "Isolation and characterization of novel microsatellite markers in tropical spiny lobster (*Panulirus homarus*) - An approach to discover the genetic diversity of population in Al-Wusta governorate", co-adviser with Dr. M. Delghandi, completed;

2013- 2015: Hajar Al Kaabi "Efficiency of capacitive deionization in reducing microbial contamination of brackish well water", supervisor, completed;

2011- 2014: Marwan Ahmed Al-Fori "Use of novel fouling release and nanotechnology-based coatings for marine biofouling prevention", supervisor, completed;

2011- 2013: Yousra Al Habsi, "Assessing the antifouling performance of natural and chemical paints on different substrates", co-adviser with Dr. R. Abed, completed;

2011-2013: Reem Al Rahdi, "Microfouling communities and their role in the reduction of the breaking strength of natural fibers", co-adviser with Dr. R. Abed, completed;

2009-2011: Badria Yousuf Abdullah Al Siyabi, "King-fish stock assessment", co-adviser with Dr. A.Govender;

2009: Angelique Kozmer. "Succession of marine fouling on experimental ship coatings in tropical waters, Oman", adviser with Prof. Benni Hansen and Dr. Atlung, Tove (RUC, Denmark) <http://rudar.ruc.dk/handle/1800/5789>;

2008- 2010: Laila Salem Hashel Al Naamani, "Production and characterization of amylases from *Cellulomicrobium* sp. and *Demequina* sp. isolated from marine organisms ", co-adviser with Prof. Bassam Soussi;

2008-2009: Samiha Al-Kharusi, "Microbiological characteriazation of biological soil crusts and hypersaline cyanobacterial mats from the Sultanate of Oman", co-supervisor with Dr. Raeid Abed;

2008-2010: Nader Mohammed Ali Al Abri, "Dynamics of micro- and zooplankton communities in Bander Al Khairan area" co-advisor with Dr. A. Al-Azri;

2007- 2009: Aisha Al-Wahaibi, "Antimicrobial and antifouling activities of soft corals extracts from Bandar Al-Khayran in Sultanate of Oman", main supervisor;

1998: Usov N., "Bryozoan biofouling" (Russia), main supervisor;

1996: Zubacha M.A., "*Mytilus edulis* movement and settlement", co-supervisor with Dr. A. Railkin (Russia).

#### BSc students:

2015: Munther Al-Kharrasi. The protein content, hydrolysate, antioxidant and antimicrobial activity of different parts of Rosy Bream (*Parascolopsis eriomma*)", main supervisor

2014: Salim Al-Jaafari, "Biofouling on fishermen boats in Sharkea region (Al Ashkara)" main supervisor

2014: Fatma Al-Harbi, "Photocatalytic degradation of a protein (bovine serum albumin, BSA) using ZnO nanorods modified filter." Co-supervision with Dr. Arne Malzhan

2012: Yasmin Hamed Al-Alawi, "Effect of salt marshes plants toxicity on *Artemia salina* larvae", main supervisor

2012: Laila Al-Sarkhi, "Growth of bethic diatoms on different culture media", main supervisor

2009-2010: Marwan Ahmed Al-Fori "Searching for Biotechnological Products from Extremely Halophilic Archaea Isolated from Hypersaline Microbial Mats from Muqshin, Oman" co-supervisor with Dr. Raeid Abed

2009-2010: Miaad Rashid Hamed Al Maamari "The Effects of Biofouling Organisms on Mechanical Properties of the Natural Fibers", main supervisor

2009-2010: Zulfat Fadhil Salim Al Zakwani "Fatty acid of sharks", co-supervisor with Dr. Henderson

2009-2010: Manal Al Shukeili "Assessment of toxicity of bacteria extracted from spine of three species of Oman sting ray using a brine shrimp assay", co-supervisor with Dr. Henderson

2008-2009: Sultan Mohammed Sultan Al-Maskari. "Bioactive compounds from microbial mats", co-supervisor with Dr. Raeid Abed

2007-2008: Iman Mohammed Said Al-Ma'mari, "Bioactive compounds from Omani sea cucumbers", main supervisor

2000-2001: Tyntareva N.A., "Naked amoebas from microfouling", co-supervisor with Dr. A. Goodkov (Russia).

## **MAJOR FINDINGS AND DISCOVERIES**

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- For the first time, used metagenomics to investigate microbial communities on coatings and other artificial substrata;
- For the first time, demonstrated production of antimicrobial and anti-quorum sensing compounds by bacterial and archaeal halophiles;
- Isolated the first quorum sensing inhibitor from cyanobacteria and demonstrated that it inhibits bacterial signaling by a novel pathway;
- Showed *in situ* production of antibacterial compounds by hot spring cyanobacterial mats;
- Identified growth forms of diatoms on antifouling coatings;
- Demonstrated that quorum sensing compounds enhance oil biodegradation;
- Demonstrated antimicrobial properties of photocatalytic ZnO nanorod coatings;
- Demonstrated presence of acyl homoserine lactone signals in marine biofilms and measured their concentrations *in situ*;
- Isolated the first antifouling compound from a deep-sea bacterium;
- Isolated several antimicrobial and antifouling compounds from marine bacteria, algae, soft corals, sponges and demonstrated their industrial potential;
- Showed importance of microbial biofilm composition and its 3D structure for larval settlement;
- Showed that recruitment of the blue mussel *Mytilus edulis* larvae is a multistage process;
- Demonstrated possibilities of a non-toxic defense from biofouling using repellents, enzymes, and narcotizing substances .

## **RESEARCH GRANTS**

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### ***My grants***

*Governmental funding (total > US\$2 million)*

*Governmental:*

2018-2019: Antifouling, photocatalytic track-etched nano-filters. South Africa- SQU research grant CL/SQU-SA/18/01, Oman (8,000 OR)

2018-2020: Biofouling of fishing gear and its prevention in Muscat waters, SQU internal grant, IG/AGR/FISH/18/01, Oman (5,500 OR)

2017: Office of Naval Research Global (ONRG-CSP-N62909-17-1-2135) grant for the Conference: 2nd GCC Marine Biotechnology conference (\$18,861.50).

2017-2018: Epizoic diatom community on marine turtles from Omani coasts: an ultrastructural and biogeographical analysis. SQU internal grant, IG/DVC/CRMB/17/01, Oman (10,000 OR)

2017-2019: High Grade Epithelial Ovarian Cancer: Overcoming Chemotherapy Resistance with Omani Marine Compounds, SQU HM grant, SR/MED/MEDE/17/01, PI Ikram Bruney (80,000 OR)

2017-2019: Elimination of polluted brine well-recharge using solar-powered zero-liquid discharge brackish water desalination in Oman, SQU HM grant, SR/ENG/PCED/17/01, PI Mohammed Al-Abri (79,000 OR)

2017 – 2021: CLAIM: Cleaning litter by developing and applying innovative methods in European seas. Horizon 2020 EU project. Head of the supervision panel. Project coordinators: Dr. Triantafyllou, Dr. Bellou (Greece) (EUR 5,654,786).

2016-2018: Biofouling in Oman waters and prevention of microbial and algal fouling using novel nanorod photocatalytic coating. TRC grant ORG/EBR/15/003, RC/AGR/FISH/16/01, Oman (252,300 OR)

2016: VINNOVA - VINNMER Planning Grant 2016-02838, Sweden (25,000 OR);

2015-2017: Antimicrobial and antifouling nanocoatings. SQU internal grant, IG/AGR/FISH/15/02, Oman (10,000 OR)

2015: Office of Naval research Global (ONRG) grant N62909-15-1-C121 for the Conference: Nanotechnology for water treatment and solar energy applications, UK. Prof. Joydeep Dutta (PI) (\$20,216)

2014-2015: Identification, comparative analysis and presentation of English, German and Arabic terminology on marine tourism, SQU internal grant, IG-HURC-14-01, Oman, PI Dr. Tuzlukova (3,000 OR)

2013-2015: The population dynamics, pathology and treatment of parasites on commercially important demersal fishes in Oman, Gilha Yoon (PI), SQU internal grant, IG/AGR/FISH/13/02, Oman (11,000 OR)

2012-2014: Bioactive compounds from Oman marine organisms. SQU internal grant, IG/AGR/FISH/12/01, Oman (10,250 OR)

2012-2015: Science without frontiers CNPq (collaborative research with Brazil), Quorum sensing inhibitors from marine organisms, Brazil (55,000€)

2010-2015: Economical, social and environmental impacts of marine biofouling in the Sultanate of Oman. His Majesty Fund for Strategic Research SR/AGR/FISH/10/01, Oman (80,000 OR)

2009-2011: Non-Toxic antifouling compounds from marine bacteria. SQU internal grant, IG/AGR/FISH/09/03, SQU, Oman (12000 OR)

2003-2004: UGC Research Travel Grant, Hong Kong University of Science and Technology, PR China ;

2002-2004: Induction of settlement and metamorphosis of invertebrate larvae. Grant for young PhD scientists, Ministry of Education, Russia # PD-02-4-190

*Industrial:*

- 2010: Tests of antifouling paints. In-kind contribution from a coatings company (name of the company protected by a non-disclose agreement) that sponsored 1 MSc student;
- 2009: Green chemicals for water treatment process. Petroleum Development of Oman, PDO. In-kind travel support;
- 2009: Marine bacteria on the surface of antifouling paints. In-kind contribution from Bio Locus (Denmark) that sponsored 1 MSc student.

#### **Co-investigator in governmental grants**

- 2014 -2015: EU 7<sup>th</sup> framework LEAF project, coatings testing; principal investigator (PI) Dr. Pinori E.;
- 2015: US Office of Naval Research Global (ONRG) grant N62909-15-1-C121 for the Conference: Nanotechnology for water treatment and solar energy applications, USA. (PI) Prof. Dutta J.;
- 2014-2015: Identification, comparative analysis and presentation of English, German and Arabic terminology on marine tourism, SQU internal grant, IG-HURC-14-01, Oman, (PI) Prof. Tuzlukova V.;
- 2013-2015: The population dynamics, pathology and treatment of parasites on commercially important demersal fishes in Oman, Gilha Yoon (PI), SQU internal grant, IG/AGR/FISH/13/02, Oman;
- 2013-2016: Larval culture of the tropical spiny lobster, *Panulirus homarus*; a new candidate species for aquaculture in Oman, TRC ORG/EBR/13/003, Oman, Goddard – Gallardo (PI);
- 2010-2015: Bioremediation of oil-polluted ecosystems in the Sultanate of Oman. TRC grant, Oman, RC/SCI/BIOL/11/01, Oman, Dr. Raeid Abed (PI);
- 2010-2012: Reproduction on population dynamics of *Perna perna* in the Sultanate of Oman, Fisheries Fund, Ministry of Fisheries, Oman, Dr. Said Al Barwani (PI);
- 2008-2010: Assessments of mesoscale physical-biological interactions along the coast of Oman as the bases for understanding the periodic fisheries losses, Grant from Ministry of Fisheries, Oman, Dr. Adnan Al-Azri (PI);
- 2005-2009: Value-added marine raw materials and health, His Majesty Fund for Strategic Research SR/AGR/FOOD/05/01, Oman, Prof. Bassam Soussi (PI);
- 2004-2006: Bioactive compounds from deep-sea marine organisms. grant from China Ocean Mineral Resources Research and Development Association (COMRRDA03/04.SC01), China, Prof. P-Y Qian (PI);
- 2004- 2006: Microbial communities associated with congeneric species of sponges from different seas. RGC grant HKUST6240/04M, Hong Kong, Prof. P-Y Qian (PI);
- 2002: Recruitment of bryozoans in the White Sea. 1 of 5 co-investigators, Grant of the Russian Foundation of Fundamental Research (Russian equivalent of NSF), Russia # 02-04-50020, A.Grishankov (PI);
- 2000-2001: Natural UV-Radiation and Marine Biodiversity. 1 of 14 co-investigators, Grant of Deutsche Gesellschaft für Technische Zusammenarbeit, Germany; M.Wahl (PI);
- 2000-2001: Recruitment of the blue mussel *Mytilus edulis* in the Barents Sea and the White Sea, Grant of the Russian Foundation of Fundamental Research (Russian equivalent of NSF), Russia # 00-04-49328, A.Sukhotin (PI);
- 2000-2001: Long-term investigation of benthic populations at the Barents Sea. One of 5 co-investigators, Grant of the Russian Ministry of Education, "Integration", Russia CO-130, A.I.Granovich (PI).

## List of scientific publications

*Web of Science: 2473 citations, h-index= 29*

*SCOPUS: 2669 citations, h-index= 29*

*Google scholar: 4408 citations, h-index = 36*

*\* corresponding author; # work of my students,*

### Peer reviewed journals

1. Schwartz N\*, Rohde S, Dobretsov S., Hiromori S, Schupp PJ. 2017# The role of chemical antifouling defence in the invasion success of *Sargassum muticum*: A comparison of native and invasive brown algae. PloS one 12 (12), e0189761, **Impact Factor 2.8, Q1**
2. Dahms H-U, Dobretsov S\*. 2017. Antifouling Compounds from Marine Macroalgae. 2017. Marine Drugs 15 (9): 265; doi:10.3390/md15090265 **Impact Factor 3.3, Q2**
3. Al-Hinai MH, Sathe P, Al-Abri MZ, Dobretsov S, Al-Hinai AT, Dutta J. 2017#. Antimicrobial Activity Enhancement of Poly (ether sulfone) Membranes by in Situ Growth of ZnO Nanorods. ACS Omega 2: 3157-3167, **cited 1**
4. Sathe P, Laxman K, Myint MTZ, Dobretsov S\*, Richter J, Dutta J. 2017#. Bioinspired nanocoatings for biofouling prevention by photocatalytic redox reactions. Nature Scientific Reports 7, 3624 **Impact Factor 5.2, Q1**
5. Jupp BP, Fowler SW, Dobretsov S\*, van der Wiele H, Al-Ghafri A. 2017. Assessment of heavy metal and petroleum hydrocarbon contamination in the Sultanate of Oman with emphasis on harbours, marinas, terminals and ports. Marine Pollution Bulletin 121: 260-273 **Impact Factor 3.1, Q1, cited 1**
6. Muthukrishnan T., Dobretsov S.\*, De Stefano M., Abed RMM., Kidd B., Finnie A.A. 2017#. Diatom communities on commercial biocidal fouling control coatings after one year of immersion in the marine environment. Marine Environmental Research 129: 102-112 **Impact Factor 3.1, Q1, cited 1**
7. Schwartz N, Dobretsov S\*, Rohde S, Schupp PJ. 2017#. Comparison of antifouling properties of native and invasive *Sargassum* species. European Journal of Phycology 52: 116-131, **Impact Factor 2.2, Q1, cited 3**
8. Ziegler M, Arif C, Burt J, Dobretsov S, Roder C, LaJeunesse T, Voolstra C\*. 2017. Biogeography and molecular diversity of coral symbionts in the genus *Symbiodinium* around the Arabian Peninsula. Journal of Biogeography 44: 674-686, **Impact Factor 4.5, Q1, cited 17**
9. Carrasou L\*, Al-Kindi AS, Dobretsov S. 2017. Preliminary assessment of the trophic structure of demersal fish community in the Sea of Oman. Regional Studies in Mar Sci 16; 145-151
10. Carvalho AP, Batista D., Dobretsov S., Coutinho R. 2017#. Extracts of seaweeds as potential inhibitors of quorum sensing and bacterial growth. Journal Applied Phycology 29: 789-797 **Impact Factor 2.56, Q2, cited 5**
11. Bora T, Sathe P, Laxman K, Dobretsov S\*, Dutta J. 2017#. Defect engineered visible light active ZnO nanorods for photocatalytic treatment of water. Catalysis today. 284: 11-18 **Impact Factor 4.3, Q1, cited 10**

12. Al Naamani L, [Dobretsov S\\*](#), Dutta J, Burgess G. 2017#. Chitosan-ZnO nanocomposite coatings for the prevention of marine fouling. *Chemosphere* 168: 408-417 **Impact Factor 3.13, Q1, cited 12**
13. Muthukrishnan T., Govender A, [Dobretsov S\\*](#), Abed RMM. 2017#. Evaluating the reliability of counting bacteria using epifluorescence microscopy. *Journal of Marine Science and Engineering* 5 (1): 4, **cited 1**
14. Yang J-L, Li Y-F, Liang X, Guo X-P, Ding D-W, Zhang D, Zhou S, Bao W-Y, Bellou N, [Dobretsov S](#). 2016. Silver nanoparticles impact biofilm communities and mussel settlement. *Scientific Reports* 6:37406, DOI: 10.1038/srep37406 **Impact Factor 5.23, Q1, cited 6**
15. Al Naamani L, [Dobretsov S\\*](#), Dutta J. 2016#. Chitosan-ZnO nanoparticle composite coating for active food packaging applications. *Innovate Food Science and Emerging Technologies* 38: 231-237 **Impact Factor 3.03, Q1, cited 20**
16. Yang JL, Li YF, Guo XP, Liang X, Xu YF, Ding DW, Bao WY, [Dobretsov S\\*](#). 2016. The effect of carbon nanotubes and titanium dioxide incorporated in PDMS on biofilm community composition and subsequent mussel plantigrade settlement *Biofouling* 32: 763-777. **Impact Factor 3.4, Q1, cited 10**
17. [Dobretsov S\\*](#), Tamimi Y, Al-Kindi MA, Burney I. 2016. Screening for Anti-Cancer Compounds in Marine Organisms in Oman, Sultan Qaboos University Medical Journal 16 (2): e168. **The key article selected by the editor in 2016. Impact Factor 0.6, Q2, cited 1**
18. Sathe P, Myint MTZ, [Dobretsov S\\*](#), Dutta J. 2016#. Self-decontaminating photocatalytic zinc oxide nanorod coatings for prevention of marine microfouling: a mesocosm study *Biofouling* 32: 383-395. **Impact Factor 3.4, Q1, cited 9**
19. Sathe P, Myint MTZ, [Dobretsov S\\*](#), Dutta J. 2016#. Removal and regrowth inhibition of microalgae using visible light photocatalysis with ZnO nanorods: A green technology. *Separation and Purification Technology* 162: 61-67. **Impact Factor 3.09, Q1, cited 5**
20. Al-Kharusi S, Abed RMM, [Dobretsov S](#), 2016#. EDTA addition enhances bacterial respiration activities and hydrocarbon degradation in bioaugmented and non-bioaugmented oil-contaminated desert soils. *Chemosphere* 147: 279-286. **Impact Factor 3.13, Q1, cited 4**
21. Al-Kharusi S, Abed RMM, [Dobretsov S\\*](#), 2016#. Changes in respiration activities and bacterial communities in a bioaugmented oil-polluted soil in response to the addition of acyl homoserine lactones. *International Biodeterioration and Biodegradation* 107: 165-173. **Impact Factor 2.2, Q2, cited 2**
22. Sherwani N, Abed RMM, [Dobretsov S](#), Mary S. 2015. Antibacterial and antifungal activities of cyanobacterial strains isolated from hot springs in Oman. *SQU J Science* 20 (1): 11-19.
23. [Dobretsov S\\*](#), 2015. Biofouling on artificial substrata in Muscat waters. *SQU J Agricultural and Marine Sciences* 19 (1): 24-29. **cited 4**
24. Muthukrishnan T, [Dobretsov S](#), 2015#. Microfouling on biocidal and non-biocidal antifouling coatings. *SQU J Agricultural and Marine Sciences* 19(1): 30-33.

25. Al-Naamani LSH, Dobretsov S, Sabahi J, Soussi B, 2015#. Identification and characterization of two amylase producing bacteria *Cellulosimicrobium* sp. and *Demequina* sp. isolated from marine organisms. SQU J Agricultural and Marine Sciences 19 (1): 8-15. **cited 2**
26. Laxman K, Myint M, Sathe P, Al Abri M, Dobretsov, S, Dutta J, 2015#. Desalination of inland brackish ground water in a capacitive desalination cell using nanoporous activated carbon cloth electrodes. Desalination 362: 126-132. **Impact Factor 3.76, Q1, cited 24**
27. Goddard S, Delghandi M, Dobretsov S, Al-Oufi H., Al-Habsi S., Burgess G. 2015. The first GCC Marine Biotechnology symposium: emerging opportunities and future perspectives. Marine Biotechnology 17: 285-289. **Impact Factor 3.2, Q1, cited 4**
28. Dobretsov S.\*, Al-Wahaibi A.S.M., Lai D., Al-Sabahi J., Claereboudt M., Proksch P., Soussi B. 2015#. Inhibition of bacterial fouling by soft coral natural products. International Biodeterioration and Biodegradation 98: 53-58. **Impact Factor 2.2, Q2, cited 12**
29. Batista D., Polycarpa Carvalho A., Costa R., Coutinho R., Dobretsov S\*. 2014#. Extracts of macroalgae from the Brazilian coast inhibit bacterial quorum sensing. Botanica Marina 57: 441-447. **Impact Factor 1.4, Q2, cited 7**
30. Muthukrishnan T., Abed, R., Dobretsov, S.\*, Kidd, B., Finnie, A. 2014#. Long-term microbial fouling on commercial biocidal fouling control coatings. Biofouling 30: 1155-1164. **Impact Factor 3.4, Q1, cited 34**
31. Al Fori M., Dobretsov S.\*, Myint MTZ., Dutta J. 2014#. Antifouling properties of zinc oxide nanorods. Biofouling 30: 871-882. **Impact Factor 3.1, Q1, cited 19**
32. Dobretsov S.\*, Abed R M. M., Voolstra C.R. 2013. The effect of surface colour on the formation of marine micro- and macro-fouling communities. Biofouling 29: 617-627. **Impact Factor 3.1, Q1, cited 43**
33. Abed R.M.M., Dobretsov S.\*, Al-Fori M., Gunasekera S., Kumar S., Paul J.V. 2013#. Quorum-sensing inhibitory compounds from extremophilic microorganisms isolated from a hypersaline cyanobacterial mat. Journal of Industrial Microbiology and Biotechnology 40: 759-772. **Impact Factor 2.4, Q1, cited 29**
34. Dobretsov S.\*, Abed R, Teplitski M. 2013. Mini-review: Inhibition of biofouling by marine microorganisms. Biofouling 29: 423-441. **Impact Factor 3.1, Q1, cited 101**
35. El Amrani M., Debbab A., Aly A.H., Wray V., Dobretsov S., Müller W.E.G., Lin W., Lai D., Proksch P. 2012. Farinomalein derivatives from an unidentified endophytic fungus isolated from the mangrove plant *Avicennia marina*. Tetrahedron letters 53: 6721-6724. **Impact Factor 2.37, Q2, cited 12**
36. Wahl M, Goecke F, Labes A, Dobretsov S and Weinberger F. 2012. The second skin: ecological role of epibiotic biofilms on marine organisms. Frontiers Microbiology 3:292. doi: 10.3389/fmicb.2012.00292. **Impact Factor 3.9, Q1, cited 147**
37. Bellou N., Papathanassiou E., Dobretsov S., Lykousis V., Colijin F. 2012. The effect of substratum type, orientation and depth on the development of bacterial deep-sea biofilm communities grown on artificial substrata deployed in the Eastern Mediterranean. Biofouling 28:199-213. **Impact Factor 3.1, Q1, cited 20**



38. Dobretsov S.\*, Teplitski M, Bayer M, Gunasekera S, Proksch P, Paul VJ. 2011. Inhibition of marine biofouling by bacterial quorum sensing inhibitors. *Biofouling* 27: 893-905. **Impact Factor 3.1, Q1, cited 103**
39. Abed RMM, Dobretsov S., AL-Kharusi S, Jupp B, Golubic S. 2011#. Microscopic diversity and bioactivity of an inland extremely hypersaline cyanobacterial mats from a desert stream in the Sultanate of Oman. *Fottea* 11 (1): 215-224. **Impact Factor 1.9, Q2, cited 26**
40. Dobretsov S.\*, Thomason J. 2011. The development of marine biofilms on two commercial non-biocidal coatings: a comparison between silicone and fluoropolymer technologies. *Biofouling* 27: 869-880. **Impact Factor 3.1, Q1, cited 69**
41. Weinberger F., Rohde S, Oschmann Y., Shahnaz L., Dobretsov S., Wahl M. 2011. Effects of limitation stress and of disruptive stress on induced antigrazing defense in the bladder wrack *Fucus vesiculosus*. *Marine Ecology Progress Series* 427:83-94. **Impact Factor 2.6, Q1, cited 33**
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43. Dobretsov S.\*, Abed RMM, Al Maskari SMS, Al Sabahi JN, Victor R. 2011#. Cyanobacterial mats from hot springs produce antimicrobial compounds and quorum sensing inhibitors under natural conditions. *Journal of Applied Phycology* 23: 983-993. **Impact Factor 2.56, Q2, cited 26**
44. Dobretsov S.\*, Teplitski M., Alagely A., Gunasekera S., Paul V. 2010. Malyngolide from the cyanobacterium *Lyngbya majuscula* interferes with QS circuitry. *Environmental Microbiology Reports* 2(6): 739-744. **Impact Factor 3.3, Q1, cited 50**
45. M. Wahl, L. Shahnaz, S. Dobretsov, M. Saha, F. Symanowski, K. David, T. Lachnit, Matthias Vasel, F. Weinberger. 2010. Ecology of the bladder wrack's *Fucus vesiculosus* resistance to fouling: 1. patterns of microfouling and antimicrobial protection. *Marine Ecology Progress Series* 411: 33-48. **Impact Factor 2.6, Q1, cited 46**
46. Dobretsov S.\*, Gosselin L., Qian P-Y. 2010. Direct and indirect effects of solar photosynthetically active radiation and ultraviolet radiation on the development of tropical micro- and macro-fouling communities. *Marine Ecology Progress Series* 402: 31-43. **Impact Factor 2.6, Q1, cited 6**
47. Berns V., BAP da Gama, F Vieira-Silva, S. Dobretsov, M Thiel, N Valdivia, AJ Scardin, C McQuaid, E Diaz, H Sudgen, JC Thomason, M Wahl. 2010. Relevance of Mytilid shell microtopographies for antifouling defence – a global comparison. *Biofouling* 26: 367-377. **The key article selected by the editor in 2009. Impact Factor 3.4, Q1, cited 42**
48. Dobretsov S.\*, Teplitski M., Paul V.J. 2009. Quorum sensing in the marine environment and its relationship to biofouling. *Biofouling* 25 (5): 413 – 427. **The most downloaded article in 2009; the key article selected by the editor in 2009; one out of 6 selected reviews 2008-2010. Impact Factor 3.4, Q1, cited 249**
49. Abed R, Dobretsov S., Kumar S. 2009. Applications of cyanobacteria in biotechnology. *Journal Applied Microbiology* 106 (1): 1-12. **Impact Factor 2.39, Q1, cited 250**
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53. Huang Y-L, Dobretsov S., Ki J-S, Yang L-H, Qian P-Y. 2007#. Presence of acyl-homoserine lactone in subtidal biofilm and the implication in larval behavioral response in the polychaete *Hydroides elegans*. *Microbial Ecology* 54(2): 384-392. **Impact Factor 2.97, Q1, cited 58**
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55. Huang YL, Dobretsov S., Xiong H, Qian P-Y. 2007#. Relevance of biofilm formation of *Pseudoalteromonas spongiae* for its inductiveness to larval settlement of the polychaete *Hydroides elegans* *Applied and Environmental Microbiology* doi:10.1128/AEM.00578-07 **Impact Factor 3.66, Q1, cited 3**
56. Qian P-Y, Lau S.C.K., Dahms H-U., Dobretsov S., Harder T. 2007. Marine biofilms as mediators of colonization by marine macroorganisms: implications for antifouling and aquaculture. *Marine Biotechnology* 9 (4): 399-410 **Invited review. Impact Factor 3.2, Q1, cited 276**
57. Dobretsov S.\*, Dahms H-U, Huang Y-L, Wahl M, Qian P-Y. 2007#. The effect of quorum sensing blockers on the formation of marine microbial communities and larval attachment. *FEMS Microb. Ecol.* 60: 177-188. **Impact Factor 3.87, Q1, cited 66**
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63. Dobretsov S., Dahms H.U., Harder T., Qian P.Y. 2006. Allochemical defense against epibiosis in the macroalga *Caulerpa racemosa* var. *turbinata*. *Mar. Ecol. Prog. Ser.* 318: 165-175. **Impact Factor 2.6, Q1, cited 37**
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65. Lau S. C. K., Tsoi M. M. Y., Li X., Plakhotnikova I., Dobretsov S., Wu M., Wong P.-K., Pawlik J. R., Qian P.-Y. 2006. Description of *Fabibacter halotolerans* gen. nov., sp. nov. and

- Roseivirga spongicola* sp. nov., and reclassification of [*Marinicola*] *seohaensis* as *Roseivirga seohaensis* comb. nov. *Int. J. Syst. Evol. Microbiol.* 56: 1059-1065. **Impact Factor 2.79, Q2, cited 30**
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68. Lau S. C. K., Tsoi M. M. Y., Li X., Plakhotnikova I., Dobretsov S., Wu M., Wong P.-K., Pawlik J. R., Qian P.-Y. 2006. *Stenothermobacter spongiae* gen. nov., sp. nov., a novel member of the family Flavobacteriaceae isolated from a marine sponge in the Bahamas, and emended description of *Nonlabens tegetincola*. *Int. J. Syst. Evol. Microbiol.* 56: 181-185. **Impact Factor 2.79, Q2, cited 17**
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### **Other presentations**

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Dobretsov S. 28 February 2011. Decryption of the secret social lives of bacteria. *SAME seminar at SQU*, Muscat, Oman.

Dobretsov S. 14 March 2010. Antimicrobial compounds from marine microorganisms. *Invited lecture* at the SQU hospital, Muscat, Oman

Dobretsov S. 8 March 2010. Bioactive natural products from Omani marine organisms, *SAME seminar at SQU*, Muscat, Oman

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Dobretsov S. September 2008. Quorum sensing in marine environment and its prevention. *SAME seminar at SQU*, Muscat, Oman.

Dobretsov S. 2008. Non-toxic antimicrobial and antifouling compounds from marine organisms. Research oral presentation at *the University day*, SQU, Muscat, Oman.

Dobretsov S. 2006. Bacteria-associated with marine organisms – new source of antifouling compounds. **Invited lecture**, Tjarno Marine Biological Station, Sweden

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### **Technical reports**

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