

Curriculum Vitae

Name: Stjepko Golubic, Ph.D.

Rank: Professor Emeritus

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Born: May 4, 1934 in Zagreb, Croatia

Education: Ph.D. Biological Sciences, University of Zagreb, Croatia --- 1963

Employment:

2013- Professor Emeritus, Department of Biology, Boston University

1979-2013 Professor, Department of Biology, Boston University

1970-79 Associate Professor, Tenure 1973 – Department of Biology, Boston University,

1969-70 Associate Professor - Department of Biology, Paterson State College, Wayne, NJ,

1966-69 Instructor/Assistant Professor – Biology Department, Yale University, New Haven, CT

1965-66 Research Associate - Department of Geology, Princeton University, Princeton, NJ,

1963-65 Post-doctoral Fellowship, Alexander-von-Humboldt Foundation, Institute of Limnology,
University of Freiburg/Breisgau and Bavarian Inst. for Experimental Biology, Munich, Germany.

1956-63 Research Assistant - Institute of Experimental Biology, Zagreb and Institute of Marine Biology,
Rovinj, Croatia, both of the Yugoslav Academy of Sciences and Arts.

Teaching: General Microbiology (BI-311), Ecology of Lakes and Rivers (Limnology) (BI-317), Marine Microbial Ecology (BI-468/668). Evolution; Microbiology for Allied Health Professionals; Plant Biology; Ecology; Global Ecology; Introductory Biology; Biology of Algae; Environmental Evolution; Biology, Art, and Technology; Marine Microphytes; Microbial Geology; Graduate Seminars Limnology. Function and Evolution of Ecosystems. Directed Studies, Distinction Research.

Student Advising: Ph.D. and Master student research supervision, Undergraduate Advising, Advising students at other academic institution as guest professor.

Research Interest: Microbial ecology of carbonate deposition and bioerosion in Marine and Freshwater environments. - Diversity and Phylogeny of Cyanobacteria. - Ecology and diversity of coral reef cyanobacteria. Marine toxic cyanobacteria.

Recent projects: Role of microorganism in carbonate deposition in modern and ancient environments: Deep Sea Bioerosion: Diversity of microorganisms penetrating carbonate substrates. - Microbial mats and Microbialite-constructing microorganisms in tropical lagoons and coral reefs: Tahiti and Moorea Islands; Microbialites in "Scatterer Islands" of the Indian Ocean (collaboration w. Dr. Mayalen Zubia)

Honors, Fellowships and invited participations: - 2017 Field research on microbial bioerosion on limestone coast of the Adriatic Sea, Croatia. -- 2016 Field research on Hydrothermal Springs in Yunnan Province, China. -- 2015 Senior Fulbright Specialist Award to NW University in Xi'an, and

Biological Institute of the Chinese Academy of Sciences in Changdu, China: Study of ambient temperature travertine in National Parks Jiuzhaigou and Huanglong, Sechuan, China. -- 2015 Research collaboration with Dr. M. Zubia on Coral Reefs in Tahiti and Moorea, French Polynesia. -- 2014 Visiting professorship at the University of Dhahran, SA. -- 2014 Membership *Honoris Causa* of the German Palaeontological Society. -- 2013-14 FNRS-supported Research and Teaching at the University of Liege, Belgium. -- 2012 Invited convenor of the Symposium "Microbial Carbonates" at the Meeting of International Association of Sedimentologists (IAS) in Schladming, Austria, Sep. 10-13, 2012. -- 2010-11 Hanse Institute for Advanced Studies Delmenhorst, Germany - Fellowship (Jun.-Aug. 2010; Sep.-Nov. 2011). -- 2009-10 Invited External evaluator, Biology Department, Sultan Qabus University, Oman: (05/25-06/04, 2010 & 06/15-28, 2009. -- 2009 Spiridion Brusina Award of The Croatian Society of Natural Sciences for lifetime achievement and promotion of Croatian science. -- 2008 Invited Keynote Speaker at: (a) Symposium "Cyanobacteria, architects of our environment": Edinburgh, 03/31-04/03 and (b) International Symposium "Evolution across scales – Biosphere/Geosphere", 06/26-28, Potsdam, Germany. -- 2007 Invited Keynote Speaker: "Natural populations of Cyanobacteria" at 17th Symposium of the International Association for Research of Cyanobacteria, Merida Mexico, June 25-29. -- 2002 Invited lecturer at International Geobiology Course, at Wrigley Marine Laboratory of the University of Southern California. -- 2001-2006 Journal of Paleontological Society of Korea, Editorial Board Member. -- 1999 Fellowship of Hanse Institute for Advanced Study, Delmenhorst, Germany. -- 1998 onward: *Geologia Croatica*, Editorial Board Member. -- 1997 NASA, Exobiology Panel. -- 1991 Senior Research Award, Alexander-von-Humboldt Foundation, Germany. -- 1991 Nobel Conference on Early Life, Karlskoga, Sweden. -- 1990-2000 Precambrian Research, Editorial Board Member. -- 1988 Alfred Wegener Conference on Early Organic Evolution, Maria Laach. Germany, co-organizer. -- 1987 International Geological Coordination Program, IGCP-261. 1983, -- 1986 9th and 10th International Symposium on Cyanophyte Taxonomy - Co-organizer. -- 1977-1980, NASA, Planetary Biology, Panel. -- 1977 National Academy of Sciences, Ecology Panel. -- 1975 Research Fellowship, Alexander-von-Humboldt Foundation, Germany. -- 1972-1988, International Geological Coordination Program (IGCP-157), Sub-project coordinator.

Recent publications (5 yers, 2013-2017)

- Zubia M, De Clerck O, Leliaerth F, Payri C, Mattio L, Vieira C, Cambert H, Pascal Quod J, Loiseau N, Golubic S, Showe-Mei L, Shao-Lun L, Pinault M (2018) Diversity and assemblage structure of tropical marine flora on lava flows of different ages. *Aquatic Botany* **144**: 20-30.
- Tribollet A., Pica D., Puce S., Campbell, S.E., Radtke, G., Golubic S (2017) Euendolithic Conchocelis stage (Bangiales, Rhodophyta) in the skeletons of stylasterid reef corals. *Marine Biodiversity* (DOI 10.1007/s12526-017-0684-5 - <https://www.researchgate.net/publication/315482023>)
- Palinska KA, Abed RMM, Vogt J, Radtke G, Golubic S (2017) Diversity of Microbial Endoliths on East Adriatic Limestone Coast: Morphological vs. Molecular Diversity *Geomicrobiology Journal* **34(10)**: 903-915.
- Kleinteich J, Golubic S, Pessi IS, Velazquez D, Storme JY, Darchambeau F, Borges AV, Compere P, Radtke G, Lee SJ, Javaux EJ, Wilmotte A (2017) Cyanobacterial Contribution to Travertine

Deposition in the Hoyoux River System, Belgium. *Microbial Ecology* **74**(1):33–53
(Doi:10.1007/s00248-017-0937-7).

Brandes M, Albach DC, Vogt JC, Mayland-Quellhorns E, Mendieta-Leiva, G, Golubic S, Palinska KA (2015) Supratidal Extremophiles—Cyanobacterial Diversity in the Rock Pools of the Croatian Adria, *Microbial Ecology*, **70** (4): 876-888.

Echenique-Subiabre I, Villeneuve A, Golubic S, Turquet J, Humbert J-F, Gugger M (2015) Influence of local and global environmental parameters on the composition of cyanobacterial mats in a tropical lagoon. *Microbial Ecology* **69**: 234-244.

Prusina, I., Peharda, M., Ezgeta-Balic, D., Puljas, S., Glamuzina, B., Golubic, S. 2015. Life-history trait of the Mediterranean keystone species *Patella rustica*: growth and microbial bioerosion. *Mediterranean Marine Science*, Feb. 2015. Available at: <<http://www.medit-mar-sc.net/index.php/marine/article/view/1121>>. Date accessed: 13 Feb. 2015.

Roué M, Gugger M, Golubic S, Amzil Z, Araoz R, Turquet J, Chinain M, Laurent D (2014) Marine cyanotoxins potentially harmful to human health. In: La Barre S, Kornprobst J-M (eds.): *Outstanding Marine Molecules: Chemistry, Biology, Analysis*, Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany, pp. 3-22.

Golubic S, Radtke G, Campbell SE, Lee S-J, Vogel K; Wisshak M (2014) The complex fungal microboring trace *Saccomorpha stereodiktyon* isp. nov. reveals the growth strategy of its maker, *Ichnos*, **21**: 100–110.

Ćurin M, Peharda M, Calcinaï B, Golubic S (2014) Incidence of damaging endolith infestation of the edible mytilid bivalve *Modiolus barbatus*. *Marine Biology Research* **10** (2): 179-189.

Abed RMM, Barry MJ, Al Kindi S, Golubic S (2013) Structure and cyanobacterial species composition of microbial mats in an Arabian Desert stream. *African Journal of Microbiology Research*, **7**(15): 1434-1442.

Supported Research: 2016 – Fulbright Foundation support for work in China. -- 2015 Field Research in Coral Reefs, French Polynesia. – 2013-2014. FNRS Belgium. – 2019-2010 Hanse Institute for Advanced Studies, Delmenhorst, Germany: Collaborative research with K. Palinska, University of Oldenburg, Germany. – 2006-2010 Institute pour l' Développement (I.R.D), Marseille, France, Collaborative Research with: L. Charpy, D. Laurent, A. Tribollet. Papeete, FP, Noumea, New Caledonia. Cyanobacteria and Nitrogen flux in the lagoons and coral reefs of Mayotte (2006). Tulear SW Madagascar (Sep.-Oct, 2007), Noumea, NC. (Oct. 2008, 2010), Tahiti, Raivavae, FP.(Sep.-Oct. 2010). – 2005-2006 Alexander-von-Humboldt foundation, Reinvited Senior Research Award, Frankfurt, Erlangen,. Germany 2003-2005 CEREGE – CNRS, Collaborative research w. G. Camoin: Microbialite in the Noumea Lagoon, New Caledonia. – 1998-1999 CEREGE - CNRS., France, Research Project: Microbialites of Tikehau lagoon (French Polynesia). Collaborative research with G. Camoin and T. Le Champion-Alsumard on Tikehau Atoll, FP.5 1993, 1994, 1996, 1998 French National Associate Professor Program. 1989-1991 NSF International Programs U.S.-Yugoslavia: INT-(4/1/89-3/31/91); INT- 8509365 (10/1/85-9/30/87). 1986-1988 Resources for the Future: Use of Nitrogen Fixing Cyanobacteria in Dry Land Agriculture to Improve Soil Fertility, Water Holding Capacity and

Crop Yield (9/1/86-8/31/88). 1983-1986 NSF: Fossil Endolithic Microorganisms: Depth Distribution, Paleoecology & Evolution, Boston University: NSF EAR 8306179 (10/1/83-9/30/86). 1983-1984 NSF International Programs U.S.- Switzerland: 9th Symposium and Workshop of the IAC, International Travel and organization support (7/1/83- 6/30/84). 1976-1979 NSF: Fossil Endolithic Algae and Fungi: Depth Distribution, Paleoecology, and Evolution, Boston University: NSF EAR-8107686 (6/1/81-5/31/83); EAR79- 11200 (6/1/79-5/31/81 with B.W. Cameron and S.E. Campbell); EAR76-84233 & EAR76-84233 A01 (6/1/77-12/31/79 with B.W. Cameron). 1981-1983 NASA: The Earliest Occurrence and Evolutionary Development of Microbial Endoliths, Boston University: NASA NAGW-141 (2/1/81-9/30/83 with S.E. Campbell). 1979-1981 NASA: Soil Stabilization by a Prokaryotic Terrestrial Mat in the Southwestern U.S.: Implications for Precambrian Terrestrial Biota: NASA NSF-7588 (4/15/79-11/30/81). 1974-1976 NSF: Biology of Algal Mats and Recent Stromatolites, Boston University: NSF GA-43391 (7/1/74-12/31/76). 1971-1975 NSF: Ecology of Marine Endolithic Algae, Boston University: NSF GB- 25271 (9/1/71-9/30/71); NSF GA-31168 (10/1/71-3/31/73); NSF OCE71-00530-A-03 (4/1/73-6/30/75). 1967-1969 NSF: Ecology of Marine Endolithic Algae, Yale University: NSF GB-6543 (7/1/67-6/30/69).