



Curriculum vitae

Europass



Personal information

First name(s) / Surname(s)

Fendrihan Sergiu

Address(es)

Bucharest Romania

E-mail

Ecologos23@yahoo.com,

Nationality

Romanian

Date of birth

23.08.1955

Gender

Male

**Desired employment /
Occupational field**

Biologist, microbiologist, environment protection, agriculture, plant protection, medical microbiology

Work experience

Worked in Pharma Industry (1979-1984) , in Reaserch institute for Food Industry (1984-1994), Institute For Plant Protection (1994-2003, 2009-2020), In University of Salzburg (2003-2008), University Vasile Goldis Arad (Part time),

In National Research Institute for Environment Potection (actually from 2022) as senior resercher in microbiology In the Department of Environment Quality and impact analysis

National Research Development Institute for Environment Protection ICIM,
Splaiul Independenței 294, Bucharesti 060031 Romania, Tel: 004-021-
2693231 (32, 34) Fax: 004-021-2693239

I worked as scientific consultant Romanian Institute for Polar Researches Bd.
Libertății, nr 1, Bl A1, sector 4 Bucharest, Romania 021 337 29 86

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**From 2016 member of the National Antarctic Research Commission of
Romanian Academy**

Education and training

1975-1979

Faculty of Biology Bucharest University University of Bucharest, Faculty of
Biology, Section of Biology, Splaiul Independentei, Nr. 91-95, sector 5,
Bucharest Romania

Diploma

pH D I In Plant protection 1999-2003

University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca
Calea Mănăștur 3-5, 400372 Cluj-Napoca, Romania, Tel: 0040264-596.384
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pH D II in Medicine 2013-2017.

Medical microbiology

University of Medicine and Pharmacy Carol Davilla

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Languages

French C1 level, English C1 level, German C1 level, Spanish A1 Italian A1
level

Main publications related with the field of activity

- Fendrihan, S.**, Leuko, S. Stan-Lotter, H. (2003) Embedding of Halobacteria in salt crystals- Exo/Astrobiology, Proc. Third Eur. Workshop ESA, Madrid Spain, 17-20 nov. 2003 SP-545, 203-204.
- .Rittman S., Legat A, **Fendrihan S.**, Stan-Lotter, H., (2003) Viability and morphology of *Halobacterium* species following desiccations implications for contamination on Mars Exo/Astrobiology, Proc. Third Eur. Workshop ESA Madrid Spain, 17-20 nov. 2003. SP-545, 275-276.
- Stan-Lotter, H., **Fendrihan, S.**, Dornmayr-Pfaffenhuemer, M., Holzinger, A., Gerbl, F.W., Frethem, C. (2008) Extremely halophilic archaea from ancient salt sediments and microbial survival in halite fluid inclusions. Orig. Life Evol. Biosph. 39, 23.
- Fendrihan, S.**, Musso, M., Stan-Lotter, H. (2009) Identification of possible microbial life in Martian subsurface halite by Raman spectroscopy studies. Orig. Life Evol. Biosph. 39, 76.
- Stan-Lotter, H., **Fendrihan, S.**, Weidler, G. W., Dornmayr-Pfaffenhuemer, M., Legat, A., Gruber, C., Gerbl, F. W., Holzinger, A., Polacsek, T. K. (2008) Life detection in ancient subsurface salt sediments and in radioactive thermal springs in the central alps. Astrobiology 8, 452.
- Fendrihan S.**, Leeb A., Stan-Lotter, H. Preparations for the EXPOSE-ADAPT experiment: studies of the effects of UV radiation on *Halococcus dombrowskii*, an isolate from Austrian rock salt EGU meeting, Vienna 2006.
- Stan-Lotter, H. **Fendrihan S.**, Leeb A. (2006), Preliminary study of the effects of UV radiations on *Halococcus dombrowski* an isolate from Austrian rock salt and implications for further space studies. EANA Conference Lyon, France,.
- Fendrihan S.**, Stan-Lotter, H. (2007) Life-detection simulation and viability assessment studies with haloarchaea as possible models of recognition of past or present life on Mars. European Geosciences Union General Assembly, Abstr. A-06225, April 15-20, 2007, Vienna, Austria
- Fendrihan S.**, Musso, M., Stan-Lotter, H. (2007) Raman spectroscopy studies of extremely halophilic Archaea. 4th Int. Conf. Adv. Vibrational Spectroscopy, June 10-15, 2007, Corfu, Greece.
- Fendrihan, S.**, Stan Lotter, H. (2007) Astrobiological studies with extremely halophilic Archaea. Abstr. EPSC2007-A-00330, Europlanet, Eur. Planet. Science Congr., Aug. 19-24, 2007, Potsdam, Germany
- Fendrihan S.** (2007) The extreme environment from Earth-models to astrobiological studies, with special focus on Antarctic environment. The 2th National Symposium of Polar scientific research with international participation. November 12-13, 2007, Bucharest, Romania, **invited talk**
- Matei, S., Matei, G., Negoita, T. Gh; **Fendrihan S.** Microbiological studies of East Antarctic soils (solicited) BG0066 POSTER EGU2008-A-11439; BG6.5-1TH4P-0066; Poster Area: BG Area EGU General Assembly 2008

Books and books chapters

Fendrihan S. (2010) Extreme halophilic microorganism-Archaea **Ars Academica** Publishing House, 220 pp (in Romanian with English abstract) 195 pp.

Fendrihan S., (2012) Extremophilic microorganisms, Bioflux Publishing House, Cluj Napoca, 270 pp.(in Romanian with English abstract) Helga Stan-Lotter, **Sergiu Fendrihan** (2011) DEEP BIOSPHERE OF SALT DEPOSITS Encyclopedia of Geobiology Joachim Reitner and Volker Thiel (eds.)

Sergiu Fendrihan, Teodor Gheorghe Negoitã (2011)

Psychrophilic microorganisms as source of important biotechnological processes in Helga Stan-Lotter et Sergiu Fendrihan (eds.)

Adaptation of microbial life to environmental extremes: research and application. Springer Verlag, Wien

Stan-Lotter, H., **Fendrihan, S.,** Legat, A., Dornmayr-Pfaffenhuemer, M., Gruber, C., Gerbl, F. W., Holzinger, A., Polacsek, T. K., Weidler, G. W., Grösbacher, M., Weigl, A. (2011) Lebensfähige Halobakterien aus 250 Millionen Jahre altem Steinsalz, die Suche nach Leben im Weltraum und Darwin's Konzepte. In: Blickpunkt Darwin. Sind Darwins Theorien heute noch gültig? Herzog, E.M. und Bauer, H. (Hrsg.), Verlag Books on Demand GmbH, Norderstedt, Deutschland, S. 163-179.

Sergiu Fendrihan, Teodor Gheorghe Negoitã (2011) Psychrophilic microorganisms as source of important biotechnological processes in Helga Stan-Lotter et Sergiu Fendrihan (eds.) Adaptation of microbial life to environmental extremes: research and application. Springer Verlag, Wien

Projects (selections)

-Project nr. 19620 Founded by FWF Austria-2003-2004-*PHYSICO-CHEMICAL*

LIMITS OF MICROBIAL LIFE:STUDIES WITH NOVEL HALOARCHEAL ISOLATES

FROM PERMIAN SALT DEPOSITS - in cooperation with Prof. Dr. Helga Stan-Lotter, Stephan Leuko, Gerhardt Weindler, Marion Pfaffenhuemer, Andreea Legat.

Project nr. 18256_P12, Founded by FWF., Austria, 2005-2007- EXTREME MICROBIAL LONGEVITY AND PREPARATIONS FOR EXOMARS in cooperation with Prof. Dr. Helga Stan-Lotter, Gerhard Weidler, Marion Pfaffenhuemer, Andrea Legat.

-2006-2008 EuTEF-Expose-Adapt (European Technology Exposure Facility-Exposure Experiment-Adapt) EuTEF-Expose-Life project of ESA with participation of several countries and group of work having as task the experiment of exposure of the haloarchaea and other organisms to space irradiation conditions

-2007-2008 Halospace Response of *Halococcus dombrowskii* Cells to the Space Environment and Preparation for Exposure Experiments on the International Space Station project funded by the Austrian Academy of Science

Projects in National Research Institute for Environmental Protection

1. Biotechnolnov- Development of integrated solutions in different environmental situations in the conditions of climate change and reduction of air and water pollution according to the task of UE – BIO-CliMission

2. Contract nr,30 /2023- analysis of biodiversity of plankton and bentos in lakes from Pascani area, Romania.