



Curriculum vitae Europass

Personal information



First name(s) / Surname (s)

Fendrihan Sergiu

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Telephone (s)

Mobile:

004-0723669854

Fax (es)

E-mail

Ecologos23@yahoo.com,

Nationalitatea

Romanian

Date of birth

23.08.1955

Sex

Masculin

Domeniu ocupational

Biologie, microbiologie, protectia mediului, biologie moleculara, agricultura, protectia plantelor, microbiologie medicala

Prezent

Perioada

Ianuarie 2022- prezent

Functia sau postul ocupat

Cercetator stiintific grd II

Activitati si responsabilitati principale

Cercetari microbiologie de mediu

Numele si adresa angajatorului

Institutul de cercetare dezvoltare pentru Protectia Mediului ICIM, Splaiul Independentei 294, Bucurestii 060031 Romania, Tel: 004-021-2693231 (32, 34) Fax: 004-021-2693239

Tipul si domeniul de activitate

Cercetare stiintifica

In pensie din septembrie 2020.

Perioada August 2011-sept 2020

Functia sau postul ocupat

Cercetator stiintific grd II

Numele si adresa angajatorului

Cercetari de microbiologie agricola si protectia plantelor

Tipul sau domeniul de activitate

Institutul de Cercetare Dezvoltare pentru protectia plantelor.Bd. Ion Ionescu de la Brad nr.8, sector 1, Bucuresti, Romania, Tel: 004-021-2693231 (32, 34) Fax: 004-021-2693239

E-mail: secretariat_stiintific@icdpp.ro www.icdpp.ro

Tipul sau domeniul de activitate

cercetare

Perioada Octombrie 2011-2020

Functia si postul ocupat

Conferentiar universitar asociat

Activitati si responsabilitati principale

Predare microbiologie medicala

Numele si adresa angajatorului	Universitatea de Vest „ Vasile Goldis” Facultatea de Medicina Arad, Romania, Adresa: Str. Henri Coanda nr. 31 Arad 310429 004-0257 212204 E-mail: medicina@uvvg.ro www, uvvg.ro
Tipul sau domeniul de activitate	Educatie universitara
Perioada	septembrie 2009- august 2011
Functia si postul ocupat	Profesor de biologie
Activitati si responsabilitati principale	Predare discipline biologice la elevii de liceu
Numele si adresa angajatorului	Grup scolar „ Nicolae Teclu”, Str. Ion Tuculescu nr. 42 sector 3,, Bucharest, Romania tel. 0040-021-3245475
Type of business or sector	educatie
Perioada	Julie-august 2010
Functia sau postul ocupat	Om de stiinta cercetator invitat
Activitati si responsabilitati principale	cercetare
Numele si adresa angajatorului	Universitatea „Paris Lodron” din Salzburg, Billrothstrasse 11, 5020 Salzburg, Austria, 0043-662-8044-7210 www.sbg.ac.at
Type of business or sector	Cercetare educatie
Perioada	Septembrie 2009-iunie 2011
Functia sau postul ocupat	Profesor de biologie la nivel de liceu/colegiu in Bucuresti
Activitati si responsabilitati principale	Predarea disciplinelor biologice
Numele si adresa angajatorului	Grupul scolar „N Teclu” Bucuresti
Tipul sau domeniul de activitate	educatie
Perioada	Martie 2003-Noiembrie 2004; Octombrie 2005-Noiembrie 2008
Functia sau postul ocupat	Cercetator stiintific invitat
Principalele activitati si responsabilitati	Cercetari de microbiologia mediilor extreme , spatiul cosmic
Numele si adresa angajatorului	Universitatea „Paris Lodron” din Salzburg, Billrothstrasse 11, 5020 Salzburg, Austria, 0043-662-8044-7210, www.sbg.ac.at
Tipul sau domeniul de activitate	Cercetare stiintifica si educatie universitara
Perioada	August 2007-August 2008
Functia sau postul ocupat	Cercetator stiintific colaborator
Activitati si responsabilitati principale	Consulting in scientific research in microbiological projects from polar areas
Numele si adresa angajatorului	Romanian Institute for Polar Researches Bd. Libertății, nr 1, BI A1, sector 4 Bucharest, Romania 021 337 29 86 www.polar-institute.ro
Tipul sau domeniul de activitate	Cercetare si dezvoltare
Perioada	Martie 1994-februarie 2003
Functia sau postul ocupat	Cercetator stiintific III
Activitati si responsabilitati principale	Cercetari in protectia plantelor
Numele si adresa angajatorului	Institutul de Cercetare Dezvoltare pentru Protectia Plantelor Bd. Ion Ionescu de la Brad nr.8, sector 1, Bucuresti, Romania, Telefon: 004-021-2693231 (32, 34) Fax: 004-021-2693239 E-mail: secretariat_stiintific@icdpp.ro www.icdpp.ro
Tipul sau domeniul de activitate	Cercetare dezvoltare
Perioada	Septembrie 2001-ianuarie 2003

Functia sau postul ocupat	Lector apoi profesor (part time position)
Activitati si responsabilitati principale	Curs de protectia plantelor si patologii vegetale
Numele si adresa angajatorului	Universitatea Bioterra, Str. Garlei nr. 81, sector 1, Bucuresti, Romania, Tel: 021.269.32.02.Fax: 021.269.34.38. Tel: 021.269.34.39. Email: cepa_bioterra@yahoo.com www.bioterra.ro
Tipul sau domeniul de activitate	Educatie si cercetare
Perioada	November 1990-February 1994
Functia sau postul ocupat	Biolog in conservare-restaurare a bunurilor culturale
Activitati si responsabilitati principale	Investigation and control and treatments of biotdeterioration of cultural heritage
Numele si adresa angajatorului	National Art Muzeum, Calea Victoriei 49-53i, sector 1 Bucharest, Romania tel 0040-021-314.81.19, 0040-021-3133030 www.mnar.arts.ro
Tipul sau domeniul de activitate	cultura
Perioada	Decembrie 1984- Octombrie 1990
Functia sau postul ocupat	Biolog in cercetare
Activitati si responsabilitati principale	Cercetari in domeniul tratamentului deseurilor si apelor uzate din agricultura si industrie alimentara
Numele si adresa angajatorului	Institutul de Chimie alimentara , Garlei nr. 1D sector 1 Bucuresti, Romania, tel, 0040-021-2305090
Tipul sau domeniul de activitate	Cercetare dezvoltare
Perioada	Octombrie 1979-Noiembrie 1984
Functia sau postul ocupat	Biolog in productie
Activitati si responsabilitati principale	Supervizarea si controlul productiei de medicamente opoterapice si extracte din plante si productia de medicamente
Numele si adresa angajatorului	Intreprinderea de medicamente „Biofarm”, Logofat Tautu nr.99, sect. 3, cod 031212, Bucuresti, Romania tel 0040-021-3010600, fax-0040-021-3010605, office@biofarm.ro, www.biofarm.ro
Type of business or sector	Productie
Educatie si formare	
Armata	1974-1975 UM 01068
Perioada	1975-1979
Calificarea/ diploma obtinuta	Diploma de licenta in biologie
Disciplinele principale studiate/competentele profesionale dobandite	Biologie, aptitudini de predare si cercetare in stiinte biologice
Numele si tipul institutiei de invatamant /furnizorului de formare	Universitatea din Bucuresti, Facultatea de Biologie, Sectiia Biologie, Splaiul Independentei, Nr. 91-95, sector 5, Bucuresti Romania Tel: 004021-318.15.67; +4021-318.15.66 E-mail: secretariat@bio.unibuc.ro
Doctorat I	
Perioada	1999-2002
Calificarea /diploma obtinuta	Diploma e doctor in Protectia plantelor
Disciplinele principale/competentele profesionale dobandite	Protectia plantelor
Numele si tipul institutiei de invatamant / furnizorului de formare	Universitatea de Stiinte Agricole si Medicina Veterinara Cluj-Napoca Calea Mănăştur 3-5, 400372 Cluj-Napoca, Romania, Tel: 0040264-596.384 Fax: 0040264-593.792 E-mail: contact@usamvcluj.ro www.usamvcluj.ro
Doctorat II	
Perioada	1999-2002

Calificarea /diploma obtinuta	Diploma e doctor in Medicina
Disciplinele principale/competentele profesionale dobandite	Microbiologie medicala
Numele si tipul institutiei de invatamant / furnizorului de formare	Universitatea de Medicina si Farmacie Carol Davila Bucuresti Romania, Tel: 0040264-596.384 Fax: 0040264-593.792 E-mail: contact@usamvcluj.ro www.usamvcluj.ro
Perioada	1988
Calificarea/diploma obtinuta	Certificat de Participare
Disciplinele principale/competentele profesionale dobandite	Metode de cercetare stiintifica in cercetarea din Industria alimentara
Numele si tipul institutiei de invatamant/ furnizorul de formare	Academia de Stiinte Agricole si Silvicultura, Bd. Marasti nr. 61, sector 1 Bucuresti, Romania, www.asas.ro
Perioada	Aprilie -iune
Calificarea/diploma obtinuta	Diploma
Disciplinele principale/competentele profesionale dobandite	Curs de Management si analiza de sistem
Numele si tipul institutiei de invatamant /furnizorului de formare	CEPECA Consulting Center, bdul Natiunile Unite nr. 5, bl. 110, sect. 5, Bucuresti, Romania email: office@cepeca.ro tel/fax: +4 021 33.66.4.99 www.cepeca.ro
Perioada	Noiembrie-Decembrie 1999
Calificarea / diploma obtinuta	Diploma
Disciplinele principale/competentele profesionale dobandite	Restaurare conservare a patimoniului cultural Baza stiintifica a conservarii restaurarii , metode si tehnici de investigare si de tratament si conservare
Numele si tipul institutiei de invatamant/ furnizorului de formare	Ministerul Culturii, Centrul de formare a personalului din institutiile culturale. Bucuresti, Romania, Piața Valter Mărăcineanu, nr. 1-3, intrarea 2, et. 6, cam. 410, sector 1021/310.08.15, 021/310.08.16021/310.08.16 www.cppc.ro
Perioada	Septembrie- Decembrie 1999
Calificarea/diploma obtinuta	Certificat de participare
Disciplinele principale/competentele profesionale dobandite	Curs de limba germana
Numele si tipul institutiei de invatamant/furnizorului de formare	Goethe Institut Str. Tudor Arghezi 8-10 RO-020945 Bucharest, Romania Tel.: + 40 21 3119762,+40 21 3119782,+40 21 3120231 Fax:+ 40 21 3120585 info@bukarest.goethe.org
Perioada	Noiembrie-Decembrie 2000
Calificarea/diploma obtinuta	Diploma
Disciplinele principale /competentele profesionale dobandite	Web Design, HTML DHTML, Front Page
Numele si tipul institutiei de invatamant/furnizorului de formare	Total School SRL Str. Ion Neculce, nr 2, Sector 1, Bucuresti, Romania Tel: 021 222 81 07 / 021 312 23 53 / 031 805 34 12 Fax: 021 223 25 12 Tel: (021) 222.81.07 totalschoolbucuresti@yahoo.com www.totalschool.ro
Perioada	Januarie 2001
Calificarea/diplomele obtinute	Diploma
Disciplinele principale /competentele profesionale dobandite	Programare avansata Java script
Numele si tipul institutiei de invatamant / furnizorului de formare	Total School SRL Str. Ion Neculce, nr 2, Sector 1, Bucuresti, Romania, Tel: 021 222 81 07 / 021 312 23 53 / 031 805 34 12 Fax: 021 223 25 12 Tel: (021) 222.81.07 totalschoolbucuresti@yahoo.com www.totalschool.ro

Perioada 2006-2007
 Calificarea/diplomele obtinute Certificat B2 germana
 Disciplinele principale/competentele profesionale dobandite Limba germana
 Numele si tipul institutiei de invatamant/furnizorului de formare Universitatea „Paris Lodron” din Salzburg, Centrul de invatarea limbilor, Erzabt-Klotz-Straße 1 / II / 2.441 (office) 5020 Salzburg Austria

Perioada Mai 2011
 Calificarea/ diplomele obtinute diploma
 Disciplinele principale/competentele profesionale dobandite Molecular biology identification of microorganisms and preservation of microorganism in collections (Identificare prin biologie moleculara a microorganismelor si Pastrarea microorganismro in colectii).Address: UK - Science Site, UK (Egham), Bakeham Lane, Egham, Surrey, TW209TY, United Kingdom Tel: +44 (0)1491 829098
 Numele si tipul institutiei de invatamant/furnizorului de formare CABI Biosciences UK Address: UK - Science Site, UK (Egham), Bakeham Lane, Egham, Surrey, TW209TY, United Kingdom Tel: +44 (0)1491 829098 www.cabi.org Research non-profit organization

Perioada 1.10.2013-31.01.2017
 Calificarea/diploma obtinuta doctor in medicina specialitatea boli infectioase
 Disciplinele principale/competentele profesionale dobandite Micrbiologie medicala fungi patogeni
 Numele si tipul institutiei de invatamant /furnizorului de formare Universitatea de Medicina si Farmacie „Carol Davilla” Bucuresti Romania

Aptitudini si competente profesionale

Limba materna Romana

Limbi straine cunoscute

Autoevaluare Nivel European (*)

Franceza
Engleza
Germana
Rusa
Spaniola
Italiana

Intelegere				Vorbire				Scriere	
ascultare		citire		interactiune		vorbire			
C2	Utilizator Experimentat	C2	Utilizator Experimentat	C1	Utilizator Experimentat	C1	Utilizator Experimentat	C1	Utilizator Experimentat
C1	Utilizator Experimentat	C2	Utilizator Experimentat	C1	Utilizator Experimentat	C1	Utilizator Experimentat	C1	Utilizator Experimentat
B2	Utilizator independent	B2	Utilizator independent	B1	Utilizator independent	B2	Utilizator independent	B1	Utilizator independent
A1	Cunostinte de baza	A1	Cunostinte de baza	A1	Cunostinte de baza	A1	Cunostinte de baza	A1	Cunostinte de baza
A1	Cunostinte de baza	A1	Cunostinte de baza	A1	Cunostinte de baza	A1	Cunostinte de baza	A1	Cunostinte de baza
A1	Cunostinte de baza	A1	Cunostinte de baza	A1	Cunostinte de baza	A1	Cunostinte de baza	A1	Cunostinte de baza

(*) [Common European Framework of Reference for Languages](http://www.cedefop.europa.eu)

Participare la manifestari stiintifice Participare in peste 34 nmanifestari stiintifice ca ABSCICON, EANA, EGU, si multe altele

Competente si abilitatit sociale Munca in echipa in cercetare Competente in educatie si comunicare in calitate de conferentiar universitar si profesor de liceu

Competente si si aptitudni organizatorice	Am organizat seminarii si o conferinta in Romania Am absolvit un curs de management (training la CEPECA Centre 2006), Am castigat un grant Land Salzburg Fellowship Universitatea din Salzburg, Austria Am organizat de la 0 primul laborator de microbiologie si biodeteriorarea si prevenirea biodeteriorarii in Muzeul National de Arta Am organizat Prima Conferinta Nationala a Colectiilor de Culturi de Microorganisme si Linii Celulare din Romania in 2009.
Competente si abilitati tehnice	-tehnice clasice de laborator microbiologic si de biologie moleculara Pregatirea culturilor microbiene identificarea microorganismelor prin sistemul Biolog si Api -extractia DNA Analiza proteinelor - electroforeza proteinelor ai a ADN - SDS 1 D protein electrophoresis - western blotting -extractia and determinarea ATP -testarerea activitatii enzimatic -microscopie cu fluorescent si tehnici de colorare a preparatelor -observations with Confocal Laser Scanning Microscope -conservarea culturilor bacteriene -analiza prin spectrscoapie Raman -infintarea si conducerea statiilor pilot de producer de biogas si alte fermentatii
Competente si aptitudini de utilizare a calculatorului	Programe de web design HTML Java script (Total Computer school Bucharest, 2000, 2001), Microsoft Office, Adobe Photoshop, Sigmastat
Competente si aptitudini artistice	Sculptura in lemn si restaurarea mobilei antice (invatare cu maestru)
Alte aptitudini si competente	Arte martiale Karate do Kioku Shinkai (Grivita Rosie Club)
Permis de conducere	Permis de conducere B din april 2001
Informatii suplimentare	-Diploma si Medalie of Excelenta in cercetarea stiintifica in 2000 si in 2002 -Membru al Societatii Romane de Protectia Plantelor, Societatea Internationala pentru Extremofile, Societatea Internationala de Ecologie Microbiana.,membru si presedinte fondator al Centrului Roman de Bioresurse si Cercetare avansata, European Astrobiology Network Association, expert Blue dot habitability team, member of the Romanian Technical Experts Association -Reviewer pentru jurnale stiintifice din strainatate -reviewer pentru MCT UEFICSDI a proiectelor de cercetare stiintifica -Publicatii- 9 articole in ISI , 9 capitole de carte, 7carti dintre care 2 in strainatate, 38 participari la manifestari stiintifice internationale -co-editor a unei carti Adaptation of microbial life to environmental extremes research and applications (Springer Publishing House) Adaptarea microorganismelor la conditiille extreme de mediu -organizator al Primei Conferinte Nationale a Colectiilor de Culturi de Microorganisme si linii celulare din Romania. -participare in 25 research projects in Romania, si 5 in Austria -indice Hirsh
Anexe	Copie Diploma Copie Diplome doctor I, II
Recomandari	<u>Prof dr. Helga Stan Lotter</u> University of Salzburg, Billroth strasse 11, 5020 Salzburg Austria tel 0043-662-8044-7233, email helga.stan-lotter@sbg.ac.at <u>Prof dr. Maurizio Musso</u> University of Salzburg, Hellbrunnerstrasse 34, 5020 Salzburg Austria, tel 0043-662-8044-5525, email maurizio.musso@sbg.ac.at

Publicatii si lucrari selectie

Lucrari

Doctorate –

I Doctorat in protectia plantelor

1. Dr. Sergiu Fendrihan-2002, Cercetari de sistematica , biologie, ecologie si combatere a viespii semintelor de lucerna *Bruchoiphagus roddi* Guss. (*Hymenoptera; Eurytomidae* - prezentata la 18.10.2002. Universitatea de Agronomie si Medicina Veterinara Cluj-Napoca, Romania. Doctor in agronomie, specialitatea Protectia Plantelor

II Doctorat in medicina

2. Dr. Sergiu Fendrihan 2017 Date Clinice, epidemiologice, si de laborator privind infectiile cu drozii din genul *Candida* Universitatea de Medicina si Farmacie Carol Davila Bucuresti Doctor in medicina, specialitatea boli infectioase.

Articole in jurnale cu panel de evaluatori

Numar de citari 458 H index 9 (AU- Scopus ID 6507573207)

1. Vernescu S.V., Oancea F., **Fendrihan S.**-1998-Beekeeping and therapeutical fodder isosyrup obtained from Jerusalem artichoke (*Helianthus tuberosus*)-APIACTA-XXXII-1-PAG.13-16.
2. Vernescu S.V., **Fendrihan S.**, Oancea F.-1998-Studies on the efficiency of the vaccine against the acute paralysis virus of honey bees. APIACTA, XXXIII 4, 18-20.
3. Leuko, S., Legat, A., **Fendrihan, S.**, Stan-lotter, H., (2004), Evaluation of the LIVE DEAD BacLight Kit for the detection of extremophilic Archaea and visualisation of microorganisms in environmental hypersaline samples Appl. Environmental Microbiol. 2004, 70: 6884-6886.
4. **Fendrihan, S.**, Legat, A., Pfaffenhuemer, M., Gruber, C., Weidler, G., Gerbl, F., Stan-Lotter, H. (2006). Extremely halophilic Archaea and the issues of long term microbial survival Reviews in Environmental Science and Biotechnology. 5, 1569-1605.
5. **Fendrihan, S.**, Bérceş, A., Lammer, H., Musso, M., Rontó, G., Polacsek, T. K., Holzinger, A., Kolb, C., Stan-Lotter, H. (2009) Investigating the effects of simulated Martian UV light on *Halococcus dombrowskii* and other extremely halophilic archaeobacteria Astrobiology Volume 9, Number 1.
6. **Fendrihan, S.**, Musso, M., Stan-Lotter, H., (2009) Raman spectroscopy of extremely halophilic Archaea embedded in halite as a potential method for their detection in terrestrial and possibly extraterrestrial samples Journal of Raman Spectroscopy 40 (12):1996-2003
7. Marion Dornmayr-Pfaffenhuemer, Andrea Legat, Karin Schwimbersky, **Sergiu Fendrihan**, Helga Stan-Lotter (2010) Responses of haloarchaea to simulated microgravity. Astrobiology 11(3):199-205.
8. **Fendrihan S** (2013) Optimisation of biomass production of antagonistic bacteria for control of phytopathogenic fungi RJPP
9. Siciua O, Constantinescu F., Dinu S., **Fendrihan S** Assessment of some abiotic factors on microbial bioproducts useful in the biocontrol of phytopathogens Journal of advances in agriculture
10. **Fendrihan S** Constantinescu F., Siciua O., Dinu S., Bacillus strains improve plants resistance to phytopathogens JEAB vol1, 22, p 139 -142. BDI
11. **Fendrihan S** (2013) The beneficial microorganisms, soil biology and modern agriculture Romanian Journal of Plant Protection Vol. VI 82 -91.
8. **Fendrihan S.** (2016) Beneficial *Bacillus* strains improve plant rezistance to phyto pathogens Vol Simpozion International ISB INMATECH Agriculture and mecahnical enginnering Bucuresti 27-29 oct. 2016/pag 263-266.
9. **Sergiu Fendrihan** (2016) Bioproducts with living microorganisms used in agriculture RJPP vol. IX, p 10-14.
10. **Fendrihan S** Phytopathogenic fungi in forest trees nurseries JAA Journal of advances in agriculture Journal: Vol. 4, No. 3 07-512 ISSN 2349-0837
11. **Fendrihan S.** (2015) Testing of the antagonism of *Bacillus* strains against the grey mold (*Botrytis cinerea*) Romanian Journal for Plant Protection, 2015, Vol. VIII, ISSN 2248 – 129X; ISSN-L 2248 – 129X
12. Lixandru M., **Fendrihan S.** (2014) The control of the thick couch grass (*Cynodon dactylon*) and of the quack grass (*Agropyron repens*) from cultivated and not cultivated lands RJPP
13. **Fendrihan S.**, Constantinescu F., Siciua O, Dinu S. (2017) *Azospirillum* a practical review Journ of Advaces in Agriculture 7(3) 1096-1108.
14. **Fendrihan S.**, Constantinescu F., Siciua O., Dinu S., Lixandru M. (2017) Ice nucleation bacteria- a chalenge for agriculture IJIESR 1 (1)
15. Lixandru M., **Fendrihan S.** (2017) Experiments and observations regarding the presence of crown gall (*Agrobacterium tumefaciens*) in vineyards RJPP
16. Lixandru M., Fendrihan S. (2017) Management and risks in the frame of IPM with biological control methods Journal of Advances in Agriculture; 8 (1):1488-1497. <https://doi.org/10.24297/jaa.v8i1.7541>
17. Fendrihan S, Lixandru M, Dinu S. (2018) Control methods of *Botrytis cinerea*. International Journal of Life Sciences and Technology 11 (4):31-36
- Fendrihan S, Lixandru M. (2018)-Focul bacterian (*Erwinia amylovora*) boală periculoasă pentru livezile de pomi fructiferi (specii semănătoare) și combaterea acestora Volumul Protectia plantelor, cercetare interdisciplinara in slujba dezvoltării durabile a agriculturii și protecției mediului-, pag 6
18. Lixandru M. **Fendrihan S.**, Stefan V. (2020) Correlation between fertilization carbohydrate content and frost rezistance of vineyards ISB INMA TEH vol. simpozion 2021, ISSN-23-44-4118-pag. 48.
19. Lixandru M., **Fendrihan S.** (2021) Evaluation of the downy mildew (*Plasmopara viticola*) and of the gray rot (*Borytis cinerea*) attack correlated with the leaf treatments and of the gray rot (*Borytis cinerea*) attack correlated with the leaf treatments and the soil fertilization. Romanian Journal for Plant Protection, Vol. XIV, 2021- ISSN2248-129X; ISSN-L 2248-129X

Proceeding de la simpozoane, si alte manifestari stiintifice.

1. Vernescu S.V., **Fendrihan S.**-1999-Reseaches on immunisation of honey bees against the attack of acute paralysis virus-Vol. Internationale Entomologen Tagung-XVI SIEEC-BASEL PAG.159.
2. **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.
3. Rittman S., Legat A, **Fendrihan S.**, Stan-Lotter, H., (2003) Viability and morphology of Halobacterium species following dessications implications for contamination on Mars Exo/Astrobiology, Proc. Third Eur. Workshop ESA Madrid Spain, 17-20 nov.2003. SP-545, 275-276.
4. 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.

5. **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.
6. 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.
- Abstracte**
1. Stan-Lotter H., **Fendrihan, S.** (2004) Survival of halobacteria in fluid inclusions as a model of possible biotic survival in Martian halite. Abstr. P7, 4th EANA Workshop on Astrobiology, Milton Keynes, UK, November 2004.
2. **Fendrihan S.**, Rittmann S., San-Lotter H. (2004) Extremely halophilic Archaea and stress effect following embedding in salt crystals. Abstr. 6, Int. Workshop Geomicrobiology, Aarhus, Denmark, January 2004.
3. Leuko S., Legat, A., **Fendrihan S.**, and Stan-Lotter H. (2004) Application of the LIVE/DEAD BacLight kit and DAPI to Haloarchaea in environmental hypersaline samples. Abstr. SO1, Halophiles 2004, Ljubljana, Slovenia.
5. Stan-Lotter H **Fendrihan S.** Leuko S. Legat A., Gruber C. Pfaenhuemer M. Weidler G., Busse H.J. (2005) Survival of haloarchaea in fluid inclusions as a model of biotic survival in subterranean extraterrestrial halite, presented at EGU Meeting Vienna 24-29 April, 2005 as poster
6. Stan-Lotter H., **Fendrihan S.** (2005) Survival of halobacteria in fluid inclusions as a model of possible biotic survival in Martian halite ROME meeting, Graz, May 21, 2005
7. Stan-Lotter H., Legat A, Pfaffenhuemer M., Gruber C., **Fendrihan S.**, Weidler G., Leuko S, Radax C, Busse H, (2005) Remnants from ancient oceans viable haloarchaea in rock salt ASM Meeting, San Francisco June 2005.
8. Stan-Lotter, H., **Fendrihan S.**, Legat, A., Pfaffenhuemer M., Gruber C., Weidler G., (2005) Lebensfähige Halobakterien aus Permischen Steinsalz – und im Weltraum? **Linz 2005.**
9. **Fendrihan S.**, Stan-Lotter H., (2006) Survival of extreme halophilic archaea in halite fluid inclusions and possibly in the Martian subsurface environments. EGU meeting, Vienna 2006.
10. **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.
11. 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.,
12. **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
13. **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.
14. **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
15. Stan-Lotter, H., **Fendrihan, S.**, Dornmayr-Pfaffenhuemer M., Legat, A., Gruber, C., Weidler, G.W., Gerbl F.W. (2007) Detection of microbial life in the subsurface. Abstr. EPSC2007-A-00217, Europlanet, Eur. Planet. Science Congr., Aug. 19-24, 2007, Potsdam, Germany
16. **Fendrihan S.**, Stan-Lotter, H. (2007) Assessment of the presence and viability of haloarchaea in fluid inclusions in halite. Abstr. Halophiles 2007, Sept. 2-6, 2007, Essex, UK
17. **Fendrihan, S.**, Stan-Lotter, H. (2007). Studies of resistance to Mars UV conditions with extremely halophilic archaea. Abstr. P3.5, 7th EANA Workshop on Astrobiology, Oct. 22-24, 2007, Turku, Finland
18. **Fendrihan S.**, (2007) The extreme environment from Earth- models for 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
19. Musso M., **Fendrihan S.**, Stan-Lotter H., (2008) Detection of halophilic microorganisms in artificial made halite by Raman micro-spectroscopy and IR Raman spectroscopy. XXI International Conference on Raman Spectroscopy ICORS 2008 17th - 22nd August 2008 Uxbridge, West London, UK
20. Enache M., Filimon R., Fendrihan S., (2008) Preliminary characterization of a halophilic archeal strain from the Telega zone evaporite *The 48-a Annual Session of the Biology Institute of Romanian Academy. Abstracts Volume, Ars Docendi – University of Bucharest, 2008*
21. **Fendrihan S.**, Musso M., Stan-Lotter H. (2008) Identification of possible microbial life in Martian subsurface halite by Raman spectroscopy studies Abstract EANA 2008, Switzerland
22. Stan-Lotter H., **Fendrihan S.** (2008) Studies of resistance to UV radiation with haloarchaeal strains Europlanet, Potsdam, Germany
23. 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. ABSCICON 2008.
24. 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
25. Stan-Lotter H., Dornmayr-Pfaffenhuemer M., **Fendrihan S.**, Holzinger, A., Polacsek, T.K., Grösbacher, M. (2009) Survival of simulated space conditions by haloarchaea. Abstr. HDID P10. VAAM Meeting March 12, Bochum, Germany.
26. **Fendrihan S.**, Stan-Lotter H., Musso M. (2009) Detection of biomarkers with Raman spectroscopy as a model for the detection of possible remnant microorganisms in extraterrestrial and planetary samples. EANA Conference, October 12-14 2009, Bruxelles Belgium
27. Stan-Lotter H., **Fendrihan S.**, Legat A., Dornmayr-Pfaffenhuemer M., Grösbacher M., Gruber C., Holzinger A., Schwimbersky K.. (2009) Halophilic life in fluid inclusions of halite in terrestrial and extraterrestrial environments. Abstr. 9th EANA Workshop, Oct. 12-14, 2009, Brussels, Belgium.
28. **Fendrihan S.**, Grösbacher M., Stan-Lotter H. (2010) Response of the extremely halophilic *Halococcus dombrowskii* strain H4 to UV radiation and space conditions in the EXPOSE -ADAPT project on the International Space Station European Geosciences Union (EGU) Vienna May 2-7, 2010.
29. **Fendrihan S.**, Stan-Lotter H., Musso M. 2010, RAMAN Spectroscopy detection of the Haloarchaea in salt crystals. Sesiunea de Comunicari Stiintifice a Institutului de Biologie al Academiei Romane, 29-30 septembrie, 2010, volum pag.

- 30.Fendrihan S.**, Stan-Lotter 2010, The UV effect on haloarchaea-Researches in the frame of EXPOSE, ADAPT and HALOSPACE projects. Sesiunea de Comunicari Stiintifice a Institutului de Biologie al Academiei Romane, 29-30 septembrie, 2010, volum pag. -about 34 participation in international and national meetings
- 31.Enache M., Filimon R., Fendrihan S.**,2008Preliminary characterization of a halophilic archeal strain from the Telega zone evaporite The 48-a Annual Session of the Biology Institute of Romanian Academy. Abstracts Volume, Ars Docendi – University of Bucharest, 2008
- 32.Matei, S., Matei, G., Negoita, T. Gh; Fendrihan S.** 2008 Microbiological studies of East Antarctic soils (solicited BG0066 EGU2008-A-11439; BG6.5-1TH4P-0066; EGU General Assembly 2008
- 33.Fendrihan S.**, Stan-Lotter H., Musso M., 2010 RAMAN Spectroscopy detection of the Haloarchaea in salt crystals Sesiunea de Comunicari Stiintifice a Institutului de Biologie al Academiei Romane (Communication Insti Biol. Acad Rom), 29-30 septembrie, 2010,
- 34.Fendrihan S.**, Stan-Lotter, Maurizio Musso 2010 The UV effect on haloarchaea-Researches in the frame of EXPOSE, ADAPT and HALOSPACE projects.Sesiunea de Comunicari Stiintifice a Institutului de Biologie al Academiei Romane, 29-30 septembrie, 2010, volum
- 30.Fendrihan S.** 2011 The Romanian Bioresource Centre Conferinta Societatii de Biologie Celulara Arad 15-16 iunie 2011
- 35. Fendrihan S.** Efectul anti Candida al uleiurilor volatile obtinute din diferite plante medicinale in vitro (Anti-Candida effect of volatile oils) Conference ANATECOR 3-5 octomber 2015 Arad
- 36.Fendrihan S.** Epidemiologia si statistica infectiilor vaginale cu drojii din genul Candida in Romania Sesiunea de comunicari stiintifice a Institutului (Epidemiology and statistic of vaginal infections with Candida yeasts) V Babes Scientific communications 2016
- 37. Fendrihan S** Structura infectiilor cu Candida din punct de vedere al speciilor implicate (Structure of infections with Candida species) Scientific communications of V Babes Institute.2016
- 38.Fendrihan S.** Bioprospectarea tulpinilor de microorganisme endofite si din rizosfera plantelor pentru productia de antifungice si antibiotice (Bioprospecting of endophytic and rhizospheres microorganisms for production of fungicides and antibiotics) (Sinaia dec 2015 Scientific communications of Insti V Babes.
- 39. Fendrihan S,** Scorțan E, Popa MI. Epidemiologia infecțiilor orale cu *Candida* (stomatita), (Epidemiology of oral infections with *Candida*) presented to Session of scientific communications of the Hospital „Matei Balș”, Bucharest , 23-25 november 2016

Prezentari in plen

- 3 prezentari invitate si 3 prezentari orale la metinguri stiintifice nationale si internationale

- 1.Fendrihan S. (2009) Microorganisms isolated from the terrestrial subsurface. First National Conference of culture collection of microorganisms and cells lines from Romania, 17 November , ITA-National Institute for Research in Biology Bucharest. Romania **talk**
3. Fendrihan S. (2008) Establishment of a Bioresource Centre in Romania- A strategic objective for Romanian and European research and durable development in our country. Romanian Scientific Diaspora Meeting Bucharest Romania September 17/ 19.2008 **invited talk**
4. Fendrihan S. (2007) The extreme environment from Earth-models to astrobiological studies, with special focus on Antarctic environment. The 2 th National Symposium of Polar scientific research with international participation. November 12-13, 2007, Bucharest, Romania, **invited talk**
5. Fendrihan. S., Stan-Lotter H: (2004) Survival of halobacteria in fluid inclusions as a model of possible biotic survival in Martian halite paper lasi vol. "Mars and planetary science and technology" Teodorescu H. N. and Griebel H:S. (eds.) Ed. Performantica Iasi, Romania; pp.9-12 **invited talk**
6. Fendrihan S., Stan-Lotter H., (2007) Astrobiological studies with extremely halophilic archaea Europlanets, 19-24.08.2007, Postdam, Germany **talk, oral presentation**

Editor de carte

-Co-editor of the book, Adaption of microbial life to environmental extremes: research and application. Springer Verlag, Wien, ed 2012, and 2017

Reviewer

- Reviewer for Astrobiology Mary Liebert Publishing House
- Reviewer for International Journal of Medicinal Plant

Carti

- 1.Vernescu, S.V. (Coordinator), **Fendrihan S.**, (2002)-University course of plant pathology 200 ppg, (in Romanian with English abstract) **Printech** Publishing House, Bucharest.
- 2.Vernescu S.V., **Fendrihan S.**-(2003) **University course of plant protection**, **Printech** Publishing House, Bucharest.330 pp. (in Romanian with English abstract).
- 3.**Fendrihan S.**- (2006) Biodeterioration of works and monuments of art **Printech** Publishing House, Bucharest (in Romanian with English abstract).
- 4.**Fendrihan S.** (2009), Biodeterioration of cultural heritage, **Bioflux** Publishing House. Cluj Napoca 427 pp. (in Romanian with English abstract)
- 5.**Fendrihan S.** (2010) Extreme halophilic microorganism-Archaea **Ars Academica** Publishing House, 220 pp (in Romanian with English abstract) m 195 pp.
6. **Fendrihan S.**, Lăzureanu C., Prioteasa C, (2011) Bioterrorism Bioflux Publishing House, Cluj Napoca, 240 pp.
7. **Fendrihan S.**, Stoica C., (2013) Medical microbiology and parasitology Vasile Goldis University Press, Arad, 320pp
8. **Febdrihan S.**, Stoica C. (2013) Medical microbiology and parasitology for pharmacists Vasile Goldis University Press, Arad, 220pp
9. **Fendrihan S.**, Maria Oprea, Dorina Cachita Cosma, Radu Iulian Tanasa (2013) Collections of microorganisms and cell lines strategic support for sustainable development Vasile Goldis University Press, Arad, 360 pp.
10. **Fendrihan S.** Berari A., Lupulescu A. (2016) Microbiology for dentists. Ed Bioflux. Cluj Npoca, 2016
11. Stan Lotter H., Fendrihan S. (2012) Adaptation of Microbial Life to Environmental Extremes. Springer Verlag Wien
- 12.Stan Lotter H. Fendrihan S. (2017) Adaptation of Microbial Life to Environmental Extremes. Springer Verlag Wien ed.II

Capitole de carte

- 1.**Fendrihan, S.**, Stan-Lotter, H. (2004) Survival of halobacteria in fluid inclusions as a model of possible biotic survival in Martian halite. In: Mars

and Planetary Science and Technology, Teodorescu HN, Griebel HS (eds). Selected papers from EMC'04, pp. 9-18. Performantica Press, Iasi, Romania.

2.Stan-Lotter H; Wieland H., Radax C, **Fendrihan S.** (2005) Book chapter: Haloarchaea and 16S rRNA genes from Permo Triassic salt sediments In: Molecular markers; PCR; bioinformatics and ancient DNA-technology trouble shooting and applications. Dorado G (ed), Science Publishers, New York.

3.Leuko, S., Legat, A., **Fendrihan, S.**, Wieland H., Radax C., Gruber C., Pfaffenhuemer M., Weidler G., Stan-Lotter H. (2005) Isolation of viable Haloarchaea from ancient salt deposits and application of fluorescent stain for in situ detection of halophiles in environmental samples and model fluid inclusions In: Cellular Origins, Life in Extreme Habitats and Astrobiology (COLE), edited by Seckbach J. Vol. 9, Adaptations to Life at High Salt Concentrations in Archaea, Bacteria and Eukarya. Gunde-Cimerman N, Oren A, Plemenitas A (eds.), Springer Verlag, Heidelberg, New York.

4.Stan-Lotter H., Leuko S. Legat A. **Fendrihan S.** (2006) Methods of the assessment of the viability of microorganisms in natural communities, in Methods in microbiology, vol. 35. Ed. A. Oren and Fred Rainey, Ed. Elsevier Scientific pp.569-584.

5.**Fendrihan, S.**, Legat, A., Gruber, C., Pfaffenhuemer, M., Weidler, G., Gerbl, F., Stan-Lotter, H. (2007) Extremely halophilic archaea and the issue of long term microbial survival. In: Life in Extreme Environments. Amils, R., Ellis-Evans, C., Hinghofer-Szalkay, H.G. (Eds.) Springer, Dordrecht, The Netherlands, pp. 203 – 218.

6.Stan-Lotter, H., **Fendrihan, S.**, Legat, A., Pfaffenhuemer, M., Gruber, C., Weidler, G. (2007) Lebensfähige Halobakterien aus permischem Steinsalz – und im Weltraum? In: Phänomen Leben: Evolution und Genetik. Hrsg. F. Gusenleitner, Denisia Monographien-Reihe, Landesmuseum Linz, S. 313-322.

7.Stan-Lotter H., **Fendrihan, S.**, Dornmayr-Pfaffenhuemer, M., Gerbl, F., Legat, A., Gruber, C., Weidler, G. (2008) Microorganisms from the ancient terrestrial subsurface – and in outer space? In: From Fossils to Astrobiology. Series: Cellular origin and life in extreme habitats and astrobiology. Seckbach, J., Walsh, M. (Eds), Springer Netherlands, pp. 235-248.

8.Stan-Lotter H., **Fendrihan S.**, (2007) Viable haloarchaea from ancient salt sediments and their response to simulated Mars conditions ESA Special Publication SP1298, (Ed. C. Cockell), Chap. 9 ROME meeting volume

9. Helga Stan-Lotter, **Sergiu Fendrihan** (2011) Deep biosphere of salt deposits Encyclopedia of Geobiology Joachim Reitner and Volker Thiel (eds.)

10. **Sergiu Fendrihan**, Teodor Gheorghe Negoită (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

11. 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.

Alte activitati

-Editor al buletinului Centrului Roman de Bioresurse

-Presedinte fondator a primului Centru de Bioresurse din Romania ONG acreditat la Comisiile Parlamentului Romaniei si membru WDCM 628.

Inglobat in Global Bioresource Centre Network 2010.

Proiecte de cercetare

1.8065/1980- 1986 Valorificarea energetica a dejectiilor din complexe de zootehnice

2.3567/1984-1985, Cercetari experimentale si studii privind valorificarea energetica cu producere de biogaz prin fermentarea anaeroba a tescovinei si a drojdiei epuizate provenite din complexe de vinificatie.

3.5077/1985, Cercetari privind obtinerea de biogaz prin fermentarea anaeroba a substantelor poluante din apele uzate de la topirea canepii .

4.6095/1986, Cercetari privind obtinerea de biogaz prin fermentarea anaeroba a substantelor poluante din apele uzate provenite de la topirea canepii si extinderea instalatiei de productie a biogazului.

5.6033/1986-1987, Cercetari privind reducerea efectului poluant al deseurilor de la distilarii prin metanizare

6.6051/1987-1989, Cercetari in vederea valorificarii in scop energetic a deseurilor rezultate de la prelucrarea legumelor si fructelor

7. /1994, Izolarea purificarea si identificarea serologica si atenuarea virusului paraliziei acute a albinelor pe embrioni de gaina

8.1994-1995, Testarea diferitelor produse obtinute in laborator pe colonii de albine afectate de micoze in vederea stabilirii eficacitatii.

9. 1994-1995, Testarea eficacitatii produsului antiviral pe unitati biologice reduse (micronuclei) in vederea stabilirii dozei optime de administrare

10.1995-1997, Noi tehnologii de productie a medicamentelor si biopreparatelor destinate prevenirii si combaterii unor maladii virale si micotice care afecteaza grav familiile de albine

11.1995-1996, Studii si cercetari privind obtinerea si utilizarea unor acaridice de uz apicol.

12. 1995-1996, Impactul asupra organismelor standard al tehnologiilor care includ tratamente cu poluare redusa si tratamente cu mijloace de protectia platelor obtinute prin biotehnologii

14. contract nr. 819. 1997 2000. Elaborarea unor metode de mentinere a sanatatii polenizatorilor majori in vederea asigurarii sanogeziei agrosistemelor .

15.A363-2001, Cercetari privind ridicarea nivelului de integrare a insectelor utile si polenizatoare in activitatea ecosistemelor.

16.CTR. ASAS 1999-2002 Tema B44 Protectia si utilizarea polenizatorilor factori majori in cadrul protectiei plantelor de cultura entomofile

17.1392/1996- 2002 Tema A.1 Cercetari privind valoarea terapeutica a polenului colectat de albine

18. ctr 828/ 2000-2003, Cercetari privind atenuarea impactului tehnologiilor clasice de protectie a plantelor medicinale si aromatice asupra mediului su calitatii materiei prime vegetale prin promovarea unor tehnologii alternative.

19.proiect nr. 19620 Founded by FWF Austria-2003-2004-Physico-chemical limits of microbial life:studies with novel haloarhaeal isolates from Permian salt deposits Limitele fizico chimice ale vietii microbiene : studii cu un noi haloarchaea izolat din minele de sare.

20.Salzburg Land research Fellowship – Austria- GENTNER PASTEUR Payload Mars Programme August- Octombrie 2004.- (determinarea biomarkerilor arheeni in mediu hipersalin si incluzii fluide cu spectroscopie Raman ca model a detectiei vietii pe Marte).

21.proiect nr. 18256_P12, Founded by FWF., Austria, 2005-2007- Extreme microbial longevity and preparations for EXOMARS (Longevitate extrema a microorganismelor si pregatirea pentru misiunea Exo Mars).

22. 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
23. 2007-2008 Halospace Raspunsul celulelor de *Halococcus dombrowskii* la mediul spatial si pregatirea pentru experimentele de expunere pe International Space Station project funded by the Austrian Academy of Science
24. 2008-2009. Proiectul ESF INTERHEMISPHERES Structura si dinamica ecosistemelor polare: Comparatie interhemisferica a micro macro flora si a proceselor biogeochimice legate de schimbarea climatica" cu 12 tari avand coordoator Romanian Institute for Polar Researches.
25. 16-29-02-01 2012-2015. Managementul durabil al riscurilor fitosanitare prin aplicarea unor mijloace biologice complexe și produse chimice cu toxicitate redusă
26. Proiect: PN 02 02 -2014-2018. Secvențe tehnologice alternative pentru creșterea rezistenței fiziologice a plantelor de cultură față de factorii de stres abiotici și biotici
27. **PN III 28 PCCDI 2016-2018** - "Sistem integrat de management al rezistenței agroecosistemului față de agenții de dăunare în scopul promovării agriculturii durabile în condițiile schimbărilor climatice" (SEDMAGRO)
- ADER 4.1.2-2016-2018 Evaluarea impactului fitosanitar al materialului pentru plantare utilizat în programul de reconversie viticolă în România asupra plantațiilor tinere de viță de vie
28. 2018-2020 Proiect HG 4690-Metode si tehnologii pentru imbunatatirea rezistentei la boli si factorii climatici-ger a vitei de vie, in vederea eficientizarii culturii si obtinerii unei productii de calitate superioara.
- 29, 2018-2020-Proiect HG 4660 Reducerea riscurilor biotice la produsele agricole depozitate in vederea cresterii sigurantei alimentare
30. Proiect HG 4689-Solutii ecologice pentru reducerea riscurilor sanitare la cultura capsunului
31. Proiect HG-4688 Bioproduse mixte destinate cresterii rezistentei sistemice a legumelor fata de agentii de daunare.