



# Europass Curriculum Vitae

## Personal information

First name(s) / Surname(s)

**Doina Danes**

Address(es)

Splaiul Independenței nr.105, sector5 Bucuresti

Nationality

Română

Date of birth

3 aprilie 1957

Gender

Female

## Work experience

Dates

2006 – Present

Occupation or position held

Full professor

Director of Clinical Sciences Department of the Veterinary Faculty

Member of the Faculty Council

Main activities and responsibilities

- Teaching topics:
  - Infectious diseases and preventive medicine in veterinary licence track
  - Risk analysis and veterinary surveillance in master track (2008 – 2011)
  - Animal health management in Postgraduate Veterinary School (2007 – 2010)
- Faculty coordinator of Phare Project RO 0006.11 "Development of Training Facility and Training Program for the Romanian Veterinary Service". Technical assistance to the National sanitary veterinary agency of the Ministry of agriculture, food and forestry.
- Faculty of coordinator of the project "Technical Assistance, Training and Capacity Building in Response to Avian Influenza", set up by USDA, USAID, DIPP (2007)

Name and address of employer

Faculty of Veterinary Medicine, University of Agronomical Sciences and Veterinary Medicine Bucharest

Dates

2000 - 2006

Occupation or position held

Senior lecturer

Name and address of employer

Faculty of Veterinary Medicine, University of Agronomical Sciences and Veterinary Medicine Bucharest

Dates

1989 – 2000

Occupation or position held

Lector in infectious diseases of animals (diagnosis and therapy) and veterinary epidemiology and laboratory diagnostic techniques

Name and address of employer

Faculty of Veterinary Medicine, University of Agronomical Sciences and Veterinary Medicine Bucharest

## Education and training

Dates

1999

Title of qualification awarded

Ph.D. in Veterinary Medicine

Name and type of organisation providing education and training

Faculty of Veterinary Medicine, University of Agronomical Sciences and Veterinary Medicine Bucharest

Dates

1981

Title of qualification awarded

Degree in Veterinary Medicine

Name and type of organisation providing education and training

Faculty of Veterinary Medicine, University of Agronomical Sciences and Veterinary Medicine Bucharest

## **Personal skills and competences**

### ***International experience***

**2017** Invited *External expert* - lecturer of the Vocational master in Feed and Food safety for Human health, University of Perugia Italy, the module “Safe production food meat and meat products: animal infectious diseases and bacterial zoonoses”, course topic “Animal infectious diseases and bacterial zoonoses – ruminants and swine”.

**2013** Invited speaker (8 -11.05.2013) THIRD INTERNATIONAL EPIZOOTIOLOGY DAYS & XV SERBIAN EPIZOOTIOLOGY DAYS;  
[http://www.vet.bg.ac.rs/uploads/file/seminari\\_simpozijumi/Epizootiolski.dani.2013.ZBORNIK.pdf](http://www.vet.bg.ac.rs/uploads/file/seminari_simpozijumi/Epizootiolski.dani.2013.ZBORNIK.pdf)

**2011.** Visiting profesor (5 – 11.06) la Universitatea Perugia/Italia în cadrul programului Erasmus . Tema prelegerii a fost: *“Control of infectious diseases”*.

**2010 (18 – 30 septembrie).** “Regional Training Course on Animal Health in Molecular Diagnosis and Genotyping and Phylogenetic Analyses of Avian Influenza A subtypes” organizat in cadrul proiectului regional RER5/015 de catre Agentia Internationala pentru Energie Atomica (AIEA) Viena

**2007** Compte rendu du colloque «ACTUALITES VETERINAIRES SUR L'INFLUENZA AVIAIRE» 15 mars 2007, ENVAlfort – speaker- [www.avancement-sciences.org/fichiers/CR\\_2007\\_03\\_15.pdf](http://www.avancement-sciences.org/fichiers/CR_2007_03_15.pdf)

**2007** Training for “Technical Assistance, Training and Capacity Building in Response to Avian Influenza” stagiu la Delmavra , Delaware, USA, <http://ag.udel.edu/abc/romania.htm>

**2006** Conference: “Sharing Knowledge across the Mediterranean” 6-8 November 2006, Trieste, Italy - speaker- [http://cdsagenda5.ictp.trieste.it/full\\_display.php?ida=a06143](http://cdsagenda5.ictp.trieste.it/full_display.php?ida=a06143)

**2006** Trainer for Romanian Lecturers for Food safety Inspectors, Van Hall Larenstein, Leeuwarden, The Netherlands, 25. 11 - 9.12.2006

### ***Research topics***

Diagnostic kits for avian micoplasmosis.

Vaccins for the main viral diseases of dogs.

Prevalence of biotic factors inducing tumors in different Romanian countys.

Prevalence of viral respiratory diseases in pigs

Prionic disease in romanian farmed sheeps

Epidemiology of zoonotic bacterioses originating in pet's

Serological surveillance of new emerging viruses – Schmallenberg

Emerging and re-emerging zoonosis

Arboviruses and arboviroses.

### ***Results registered by the Office for Inventions and Trademarks***

- nr. 84572 din 1982 – Certificat of inventor „Procedeu de preparare a vaccinului contra difterovariolei aviare – cesianat „Romvac”
- nr. 94729 din 1986 – Certificat of inventor „Procedeu de cultivare a microorganismului Mycoplasma gallisepticum” – aplicat de către „Romvac”
- nr. 106761 din 30.06.1993 – Certificat of inventor „Procedeu de obținere a antigenului Mycoplasma galisepticum pentru inhibarea hemaglutinării” – cesianat INMV „Pasteur”.

### ***Main research projects***

<b>Project</b>	<b>Position</b>	<b>Period</b>
Grant 5020/1993 financed by Ministry of education – Morphostructural studies, including electro-microscopy, of poultry tumoral diseases.	Expert	1993
Grant 2208/1993 financed by Hygiene Institut for Public Health – Evaluation of chemical, prionic and oncoretroviral pollution of environement due to the animal farming.	Expert	1994
BIOTECH - proiect BIO 50.1 / 19.10. 2001 "Identification and cuantification of some oncoinductor biotic factors in targeted Romanian counties" (2001 – 2004) .	Director Coordinator	2001 – 2004
Phare Project RO 0006.11 "Development of Training Facility and Training Program for the Romanian Veterinary Services". 2003 – 2004	Director Coordinator Member	2003 – 2004
CEEX – nr.17/2005 „Critical points in the control of respiratory viral diseases in swine: identification of etiopathogenetic peculliarities associated with the Romanian pathotypes ” (2005-2007)	Coordinator	2005 – 2007
Project “Technical Assistance, Training and Capacity Building in Response to Avian Influenza”, set up by USDA, USAID, DIPP (2007)	Director	2007
Grant PN II – nr. 61-34 / 14.09.2007 „Inovative studies on the prevention and control of bacterial zoonoses, inducing pasteurelosis and leptospirosis in companion animals and humans, in order to improve the therapy” (2007-2010)	Director	2007 – 2010
Grant PN II – nr. 295 /2014 -Kit multiplex REAL TIME PCR to detect viruses (FHCCv și TBEv) and bacteria (Francisella tularensis și Borrelia burgdorferi s.l.) spread by ticks.	Member	2014-2016
Horizon 2020 - DISARM – 817591 „Disseminating Innovative Solutions for Antibiotic Resistance Management”	Member	2014 – 2017
		2019 - 2021

Mother tongue(s)	Romanian
Other language(s)	
Self-assessment European level (*)	
English	C2 Proficient User
French	C2 Proficient User

(\*) Common European Framework of Reference for Languages

## Additional information

### Memberships

- Corresponding member of the Agriculture and Forestry Academy
- Member of the Association pour l'Etude de l'Epidemiologie des Maladies Animales (AEEMA), Maisons Alfort, France (since 2000)
- Member of the Romanian Veterinary College
- Registered Expert of European Association of Establishments for Veterinary Education (EAEVE) (since 2009)
- Member of the National register of Experts of the National Council for University Scientific Research (CNCSIS, [www.cnccsis.ro](http://www.cnccsis.ro)) of the Ministry of Education and member of the Expert team of the National Center for Programs Management (CNMP, [www.cnmp.ro](http://www.cnmp.ro)) (2005 – 2010)

### Publications

#### Books

- "Salmonelosis" in Animal Infectious Diseases, Bacterioze, vol.1, Ed.Universitas (2011) edited by Perianu Tudor, pg.270 – 323
- Transboundary infectious diseases of animals" (2005) Ed.All, Doina Danes – coordinator
- Mihai Danes, Ana Virgilia Popa, Andrei Popovici, Doina Danes (1999) "Patologie celulară", 134 pg., Ed. Risoprint Cluj Napoca,
- Nicolae Dojana, Doina Danes (1997) "Biologia și patologia animalelor de laborator", vol.II, 176 pg., Ed. Rotech Pro,
- Doina Danes, Mihai Danes (1996) "Note de curs"(Infectious pathology of cats and dogs) to the students of the VI-th, 110pg., AMD - USAMV
- Mihai Danes, Doina Danes (1996) "Febra aftoasa"(Foot and mouth disease), 210 pg., Ed. Medical Veterinara

#### h-index

h-index web of science: 3  
h-index google scholar: 4

#### Articles

- Stelian Baraitareanu, Doina Danes, Maria Rodica Gurau, Gabriela Victoria Dumitrescu, Marius Alexandru Ciocanau, Lucia Elena Ionescu, Alexandru Filip Vladimirescu. Options for the Active Surveillance of Tick-borne Encephalitis Virus in Farm Animals and Wildlife: A Critical Review. Journal of biotechnology 2015, Vol.208, Supplement, pages S87
- Elena Awwad, Kamel Adwan, Mohammed Farraj, Tamer Essawi, Issa Rumi, AssadManasra, Stelian Baraitareanu, Maria Rodica Gurau, Doina Danes, Molecular basis of cell envelope virulence genes among field strain of Brucella melitensis isolated in West Bank part of Palestine, Journal of biotechnology 2015, Vol.208, Supplement, pages S5–S120
- Otelea, M. R.; Zaule, M.; Dudu, A.; Otelea, F.; Baraitareanu, S.; Danes, D. The scrapie genetic susceptibility of some sheep breeds in southeast Romanian area and genotype profiles of sheep scrapie infected. Romanian Biotechnological Letters 2011 Vol. 16 No. 4 pp. 6419-6429
- Câmpeanu, M. V.; Dorca, L.; Bărăitařeanu, S.; Cobzariu, D.; Popp, M.;Danes, D. Episode of PRRS-epidemiological and clinico-lesional aspects. Scientific Works - University of Agronomical Sciences and Veterinary Medicine, Bucharest Series C, Veterinary Medicine 2010 Vol. 56 No. 1 pp. 8-15
- Stelian, B.; Ivana, S.; Zaule, M.; Otelea, M.; Otelea, R.; Rotaru, E.; Judith, I.; Danes, D. Molecular epidemiology investigations in 8 Romanian outbreaks of rabbit Pasteurellosis by pulsed-field gel electrophoresis. Romanian Biotechnological Letters 2011 Vol. 16 No. 1 pp. 5841-5849
- Bărăitařeanu, S.; Bezman, M.; Marinache, S.; Cobzariu, D.; Bagrinovschi, G.; Otelea, M.; Câmpeanu, M. V.; Ivana, S.; Danes, D. Etiology and pathology in porcine respiratory disease complex (PRDC) in finishing pigs. Lucrări Științifice - Medicina Veterinara, Universitatea de Științe Agricole și Medicina Veterinara "Ion Ionescu de la Brad" Iași 2010 Vol. 53 No. 12(4) pp. 920-926
- Bărăitařeanu, S.; Cobzariu, D.; Otelea, M.; Câmpeanu, M. V.; Ivana, S.;Danes, D. Signs and lesions of the spontaneous acute pneumonic pasteurellosis in pet rabbits. Lucrări Științifice - Medicina Veterinara, Universitatea de Științe Agricole și Medicina Veterinara "Ion Ionescu de la Brad" Iași

- 2010 Vol. 53 No. 12(4) pp. 927-930
- Bagrinovschi, G.; Băraitaeanu, S.; Cobzariu, D.; Danes, D. The implementation of molecular biology techniques in diagnosing feline rhinotracheitis. Scientific Works - University of Agronomical Sciences and Veterinary Medicine, Bucharest Series C, Veterinary Medicine 2009 Vol. 55 No. 2 pp. 161-165
  - Cobzariu, D.; Baraitareanu, S.; Radulescu, S.; Gustere, F.; Danes, D. Identification of canine blood groups using in-clinical methods. Scientific Works - University of Agronomical Sciences and Veterinary Medicine, Bucharest Series C, Veterinary Medicine 2009 Vol. 55 No. 3 pp. 74-79
  - Cobzariu, D.; Baraitareanu, S.; Duca, I.; Radulescu, S.; Gustere, F.; Danes,D.Dermatophyte surveillance in companion animals: horses, dogs and cats. Scientific Works - University of Agronomical Sciences and Veterinary Medicine, Bucharest Series C, Veterinary Medicine 2009 Vol. 55 No. 3 pp. 67-73
  - Câmpeanu, M. V.; Băraitaeanu, S.; Cobzariu, D.; Danes, D. New aspects in myxomatosis evolution. Scientific Works - University of Agronomical Sciences and Veterinary Medicine, Bucharest Series C, Veterinary Medicine 2009 Vol. 55 No. 3 pp. 53-59
  - Baraitareanu, S.; Cobzariu, D.; Câmpeanu, M. V.; Danes, D. Immunological diagnostic in surveillance of feline retroviruses in Romania. Scientific Works - University of Agronomical Sciences and Veterinary Medicine, Bucharest Series C, Veterinary Medicine 2009 Vol. 55 No. 3 pp. 17-19
  - Baraitareanu, S.; Bezman, M.; Marinache, S. D.; Bagrinovschi, G.; Cobzariu, D.; Câmpeanu, M. V.; Danes, D. PRRSV and PRV control programs in professional swine herds. Scientific Works - University of Agronomical Sciences and Veterinary Medicine, Bucharest Series C, Veterinary Medicine 2009 Vol. 55 No. 3 pp. 12-16
  - Popa, V.; Stanuica, D. A.; Bucur, E.; Cadar, D.; Catana, N.; Danes, D.; Baraitareanu, S.; Botus, D.; Nica, I.; Stan, A.; Belteghi, C.; Pastrama, F.; Tamas, T. Studies regarding to the presence of porcine circovirus type 2 in swine industrial growth farms from Romania. Lucrari Stiintifice - Universitatea de Stiinte Agricole a Banatului Timisoara, Medicina Veterinara 2008 Vol. 41 pp. 784-792
  - Baraitareanu, S.; Câmpeanu, M. V.; Bezman, M.; Marinache, S. D.; Bagrinovschi, G.; Radulescu, S.; Cobzariu, D.; Danes, D. Management of Pseudorabies virus infection in swine herds. Lucrari Stiintifice - Universitatea de Stiinte Agricole a Banatului Timisoara, Medicina Veterinara 2009 Vol. 42 No. 1 pp. 237-240
  - Baraitareanu, S.; Câmpeanu, M. V.; Bezman, M.; Marinache, S. D.; Radulescu, S.; Bagrinovschi, G.; Cobzariu, D.; Danes, D. Control strategies of SRGP in new contaminated farms. Lucrari Stiintifice - Universitatea de Stiinte Agricole a Banatului Timisoara, Medicina Veterinara 2009 Vol. 42 No. 1 pp. 232-236
  - Danes, D.; Baraitareanu, S.; Cobzariu, D.; Danes, M. Current state of the diagnosis of canine parvovirus infection and distemper. Lucrari Stiintifice - Medicina Veterinara, Universitatea de Stiinte Agricole si Medicina Veterinara "Ion Ionescu de la Brad" Iasi 2007 Vol. 51 No. 10(2) pp. 731-733
  - Baraitareanu, S.; Stone, C. S.; Danes, D. Implementation of the Delaware Technical Model for education of laboratory technicians in Romania. Lucrari Stiintifice - Medicina Veterinara, Universitatea de Stiinte Agricole si Medicina Veterinara "Ion Ionescu de la Brad" Iasi 2007 Vol. 51 No. 10(2) pp. 648-650
  - Câmpeanu, M. V.; Băraitaeanu, S.; Cobzariu, D.; Danes, D. Actual aspects in mixomatosis evolution. Lucrari Stiintifice - Universitatea de Stiinte Agronomice si Medicina Veterinara Bucuresti. Seria C, Medicina Veterinara 2008 Vol. 53 pp. 39-42
  - Baraitareanu, S.; Cobzariu, D.; Câmpeanu, M. V.; Hiotu, A.; Danes, D. Programs and methods used for feline retrovirosis surveillance in Romania. Lucrari Stiintifice - Universitatea de Stiinte Agronomice si Medicina Veterinara Bucuresti. Seria C, Medicina Veterinara 2008 Vol. 53 pp. 16-21
  - Baraitareanu, S.; Băraitaeanu, A. P.; Danes, D.; Bercea, I. Strategies of FeLV surveillance in Romania. Lucrari Stiintifice - Medicina Veterinara, Universitatea de Stiinte Agricole si Medicina Veterinara "Ion Ionescu de la Brad" Iasi 2007 Vol. 51 No. 10(2) pp. 641-643
  - Baraitareanu, S.; Băraitaeanu, A. P.; Cobzariu, D.; Balaban, A.; Câmpeanu, M. V.; Danes, D. Young swine management for infectious respiratory pathology. Lucrari Stiintifice - Medicina Veterinara, Universitatea de Stiinte Agricole si Medicina Veterinara "Ion Ionescu de la Brad" Iasi 2007 Vol. 51 No. 10(2) pp. 644-647
  - Câmpeanu, M. V.; Danes, D.; Popp, M. Particular aspects in avian leukemia infections. Lucrari Stiintifice - Universitatea de Stiinte Agronomice si Medicina Veterinara Bucuresti. Seria C, Medicina Veterinara 2006 Vol. 40 pp. 313-321
  - Danes, D.; Băraitaeanu, S.; Hiotu, A. Epidemiological screening on feline retroviruses. Lucrari Stiintifice - Universitatea de Stiinte Agronomice si Medicina Veterinara Bucuresti. Seria C, Medicina Veterinara 2006 Vol. 49 pp. 141-144
  - Danes, D. Avian influenza outbreaks Romania 2005-2006. Lucrari Stiintifice - Universitatea de

Ştiinţe Agronomice şi Medicina Veterinară Bucureşti. Seria C, Medicina Veterinară 2006 Vol. 49 pp. 253-261

- Danes, D. Influenza: a retrospective view and the current situation. Revista Română de Medicina Veterinară 2005 Vol. 15 No. 4 pp. 11-16
- Popa, V.; Vanghele, M.; Botus, D.; Stănică, A.; Popovici, A.; Şofei, D.; Danes, D. Molecular typing of Romanian avian Escherichia coli strains by the use of random amplified polymorphic DNA technique-RAPD. Studies and Researches in Veterinary Medicine 2003 Vol. 9 pp. 1-32
- Danes, M.; Botus, D.; Danes, D.; Popa, V.; Cuca, D. The assessment of the postvaccinal humoral immune response in Gumboro disease through ELISA test. Buletinul Universităţii de Ştiinţe Agricole şi Medicina Veterinară Cluj-Napoca, Seria Medicina Veterinară 2003 Vol. 60 pp. 208-213
- Popovici, A.; Bucur, E. O.; Pîrvulescu, M.; Danes, M.; Sîfei, D.; Popa, V.; Danes, D. Cyto- and histopathological findings in the experimental infection with the avian infectious bursal disease virus (AIB). Buletinul Universităţii de Ştiinţe Agricole şi Medicina Veterinară Cluj-Napoca, Seria Medicina Veterinară 2003 Vol. 60 pp. 290-293

#### Papers in conference proceedings

- Daneş D., Popa V., Josef C., Mihalache M., Lesage M.C., Leroy-Setrin s., Lafont J.P., Millemann Y., Chaslus-Dancla E., 1995, Genetic characterisation of some avian Salmonella strains, Studies and Researches in Veterinary Medicine, 3, 54 - 61 (ISSN 1224 -7685)
- Popa AV., Danes D., Avram E., Sandu I., Descauses M.C., Leroy-Setrin S., Millemann Y., Chaslus-Dancla E., Lafont J.P., 1997, Characterization of antibioresistance avian Salmonella typhimurium strains by ribotyping, IStyping and plasmidic profile, Stud. Rec. Vet. Med., 5, 93 – 98 (ISSN 1224 - 7685)
- Danes D., Popa A.V., Descauses M.C., Leroy-Setrin S., Millemann Y., Chaslus-Dancla E., Lafont, J.P., 1997, Molecular epidemiology aspects of antibioresistant avian Salmonella typhimurium strains , Stud. Rec. Vet. Med., 5, 99 – 103 (ISSN 1224 -7685)
- Popa V., Borca M., Danes D., Nita D., Avram E., Sandu I., Gruia M., Danes M., 1998, Molecular characterisation of tetracycline resistance of some avian Salmonella typhimurium and Salmonella enteritidis strains, Macedonian Veterinary Review 27 (1-2): 7-15, Proceedings of the VI Macedonian Poultry Days, Ohrid 6-9 May 1998 (ISSN 1409-7621)
- Virgilia Popa, Doina Danes, I.Sorescu, Marinela Borca, Daniela Nita, Mariana Sarca, Antonela Tamaş, D.Turcu, M.Gruia, I.Caraivan M.Pîrvulescu, 1999, Biochemical, genetic and pathogenicity characters of some pig Escherichia coli strains, Stud. Rec. Vet. Med., 7: 91-101 (Cabi Publishing) (ISSN 1224 - 7685)
- Virgilia Popa, Monica Vanghele, Daniela Botuş, Andreea Stănică, A. Popovici, Doina Şofei, Doina Daneş, 2003, Molecular typing of Romanian avian Escherichia coli strains by the use of random amplified DNA technique – RAPD, Studies and Res. In Vet. Med., (Cabi Publishing), ISSN 1224 – 7685, 9:1-32
- Avian influenza. Prevention, response and control August 21 – 23, 2006, Vatra Dornei - [www.romania.jsi.com/Docs/padco\\_avian\\_flu\\_curric.pdf](http://www.romania.jsi.com/Docs/padco_avian_flu_curric.pdf)
- Savuta Gh., Danes Doina. Evaluation préliminaire de la grippe aviaire en Roumanie. Vol., Journées d'épidémiologie AESA-AEEMA, Liege, Belgia, 18-19 mai 2006.
- Ștefan N., Olaru E., Sandu I., Ontanu Gh., Danes Doina, Savuta Gh.. La strategie de surveillance et diagnostic de la grippe aviaire en Roumanie, Vol., Journées d'épidémiologie AESA-AEEMA, Liege, Belgia, 18-19 mai 2006 .
- OIE/FAO INTERNATIONAL SCIENTIFIC CONFERENCE ON AVIAN INFLUENZA AND WILD BIRDS Rome 30-31 May 2006 - [http://www.fao.org/avianflu/conferences/rome\\_avian/documents/ListofParticipants.pdf](http://www.fao.org/avianflu/conferences/rome_avian/documents/ListofParticipants.pdf)
- Conference: "Sharing Knowledge across the Mediterranean" 6-8 November 2006, Trieste, Italy – [http://cdsagenda5.ictp.trieste.it/full\\_display.php?id=a06143](http://cdsagenda5.ictp.trieste.it/full_display.php?id=a06143)
- COMPTE RENDU DU COLLOQUE «ACTUALITES VETERINAIRES SUR L'INFLUENZA AVIAIRE» 15 MARS 2007, ECOLE NATIONALE VETERINAIRE D'ALFORT - [www.avancement-sciences.org/fichiers/CR\\_2007\\_03\\_15.pdf](http://www.avancement-sciences.org/fichiers/CR_2007_03_15.pdf)
- Final Project Report on DIPP Technical Assistance, Training and Capacity Building in Response to Avian Influenza in Romania- <http://aq.udel.edu/abc/romania.html>
- AMVAC 12 noiembrie 2008 - <http://www.amvac.ro/sinaia.php>
- Virgilia Popa, D.A. Stanuica, E. Bucur, D. Cedar, N. Catana, Doina Danes, S. Baraitareanu, Daniela Botus, Irina Nica, Adela Stan, C. Belteghi, F. Pastrama, T.Tamas 2008, Studies regarding to the presence of porcine circovirus type 2 in swine industrial growth farms from Romania, Scientific Papers Veterinary Medicine, CNCSIS B259 USAMV Timişoara, 41: 784-792, ISSN:1221-5295
- EAEVE Experts List Sept. 2009 - [http://www.eaeve.org/fileadmin/downloads/executive\\_summaries/EAEVE\\_Experts\\_List\\_Sept\\_2009.pdf](http://www.eaeve.org/fileadmin/downloads/executive_summaries/EAEVE_Experts_List_Sept_2009.pdf)

- [Seminarii Nestlé Purina \(se acordă puncte în cadrul SNEC\)  
http://fmvstudents.blogspot.com/search/label/seminarii](http://fmvstudents.blogspot.com/search/label/seminarii)

September 2020

Prof. Daneş Doina

