euro pass				
Curriculum vitae Europass				
Personal information				
Name / Surname	CALINA PETRUTA CORNEA			
Address	Str.Musat Constantin nr.1, bloc 16, sc.2, ap.25, Sector 5; București			
Phone	+40213182564/266 Mobile: 0723980432			
E-mail	pccornea@yahoo.com			
Nationality	Romanian			
Date of birth	10.01.1959			
Sex	F			
Experience				
Period	2003-present			
Occupation or position held	Professor			
Main activities and responsibilities	Holder disciplines of genetic engineering, Genetics, Plant Molecular Biology, coordinating activities at teaching research			
Name and address of employer	University of Agricultural Sciences and Veterinary Medicine Bucharest, Faculty of Biotechnologies, Bd.Marasti, nr.59, Sector 1, Bucharest			
Type of business activity or sector	Education- Research			
Period	2003-present			
Occupation or position held	Researcher, Head of the Department of Molecular Biology and Genetic Engineering			
Main activities and responsibilities	Coordinating research			
Name and address of employer	Centre for Applied Biochemistry and Biotechnology Bucharest (BIOTEHNOL) Bd.Marasti, nr.59, Sector 1, Bucharest			
Type of business activity or sector	Research activity			
Period	2001-2003			
Occupation or position held	Associate Professor			
Main activities and responsibilities	Holder disciplines of genetic engineering, genetics, coordinating activities and teaching research			
Name and address of employer	University of Agricultural Sciences and Veterinary Medicine Bucharest, Faculty of Biotechnologies, Bd.Marasti, nr.59, Sector 1, Bucharest			
Type of business activity or sector	Education- Research			
Period	1997-2001			
Occupation or position held Main activities and responsibilities	Lecturer			
Name and address of employer	Holder discipline of genetic engineering, coordination activities, teaching and research University of Agricultural Sciences and Veterinary Medicine Bucharest, Faculty of Biotechnologies,			
maine and address of employer	Bd.Marasti, nr.59, Sector 1, Bucharest			
Type of business activity or sector	Education- Research			
Period	1984-1997			
Occupation or position held	Scientific researcher			
Main activities and responsibilities	Research Scientific			
Name and address of employer	Institute of Biology of Romanian Academy, Splaiul Independentei 296, Sector 6, Bucharest			

Period	1982-1984					
Occupation or position held	Professor of Biology					
Main activities and responsibilities	Educational Activities					
Name and address of employer	Secondary School Pre	deal, Jud.Brasov				
Type of business activity or sector	Education					
Education and training						
	1077 1001					
Period	1977-1981	C 11111				
Qualification awarded		Diploma of the license, field biology				
Disciplines Principal subjects / occupational skills acquired	Cytology, Cell Biology, General Chemistry, Biochemistry, Microbiology, Genetics, Plant Physiology, Animal Physiology, Anatomy, Plant systematic, Zoology, Ecology, Fundamentals of Agriculture, Hydrobiology Oncobiology, Geology and palaeontology					
Name and type of organization providing education and training	University of Bucharest, Faculty of Biology					
Level in national or international classification	License (bachelor)					
Period	1981-1982					
Qualification awarded	Certificate in Biology Medical Specialization					
Disciplines Principal subjects /	Immunology, Medical Microbiology, Parasitology, Endocrinology					
occupational skills acquired						
Name and type of organization providing education and training	University of Bucharest, Faculty of Biology					
Level in national or international classification	Specialization (Masters)					
Period	1989-1996					
Qualification awarded	PhD Diploma, de doct	tor, field biology				
Name and type of organization providing education and training	University of Bucharest, Faculty of Biology					
Level in national or international classification	PhD					
Maternal language	Romanian					
Languages known	English and French					
Self evaluation	Understa	ınding	Spee	ch	Writing	
European level (*)	Listening	Reading	Participation oral conversation	Speech	Written Express	
Language	1. English	C1	C1	B2	C1	
Language	2 French	C1	B2	B2	B2	
	(*) The Common Euro	pean Framework	of Reference for Langua	nges		
Skills and social skills	team spirit, good communication skills gained from the experience of teacher-class master at a school in a small town					
Skills and organizational competences	Experience in coordinating the activities of groups of pupils or students; organizational abilities developed during the previous research leadership (carrying on many years of the function of Scientifi Secretary and then Vice Dean of the Faculty of Biotechnologies in Bucharest; today Head of Departme in BIOTEHNOL)					

Technical skills and competences	Utilization of specific scientific equipments		
Skills and competences to use the high level of computer			
Other information			
List of published scientific works	주를 보고 있는데 있는데 있는데 있는데 있는데 있는데 보고 보고 있다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었		
Membership in professional associations and organizations	- Vice President of the Romanian Commission for Biological Safety (2008-present)		
Awards and prizes	-Golden Medal at Geneva Invention Salon in 2009 for the invention Biotechnological procedure for PHAs productionSilver medal at the Geneva Inventions Fair of 2000 for the invention «Probiotics dairy products and protection» - Medal "Merit for Education" (2004) - Prize for best poster "MSc-PHA accumulation in <i>Pseudomonas putida</i> P5 (wild type and mutants) in lipid containing media (author CPCornea, I. Lupescu, C. Voaides, D. Constantinescu, M. Ciuca, I. penknife, A. Pop: International Conference on Industrial Biotechnology and Applied Microbiology, Galati 2008		
Other information	PhD coordinator in biology (starting 2009) and in Biotechnology (starting 2011) Scientific and technical expert in National Research Programs (CNCSIS, BIOTECH, AGRAL,RELANSIN, CEEX and PNCDI II) and international (Bulgarian Research Program) Scientific and monitoring activities in National Programs BIOTECH și CEEX. Vice Dean of Faculty of Biotechnologies (2004-2008) Scientific Secretary of Faculty of Biotechnologies (1998-2004) Head of Department of Biotechnology, Faculty of Biotechnology Bucharest (starting 2011) Member of various committees of the contest and promotion for the posts of lecturer and professor in USAMV and other universities in the country (the University of Craiova, University "Ovidius" of Constanta, USAMV of Banat Timişoara) Official referee for more than 25 doctoral theses		

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SELECTIVE LIST OF PUBLICATIONS

BOOKS

- 1. INGINERIE GENETICA, 2010, C, Autor: Cornea, C.P., ISBN 973-8400-97-X, 406 pag.
- 2. GHID PENTRU DIAGNOZA BOLILOR PLANTELOR, 2009, Edit. Ceres București, Autori: Severin, V., Cornea, C.P., 2009, ISBN 978-973-40-0821-6
- 3. TRATAT DE BIOTEHNOLOGIE, Volumul 2, 2007, Editura Tehnică București, Autori: S.Jurcoane, C.P.Cornea, T.Vassu ș.a., ISBN 973-31-2279-3
- 4. GENETICĂ, 2005, Edit.Ceres, Autor: C.P.Cornea, ISBN 973-40-0689-4, 302 pagini
- 5. BAZELE MICROBIOLOGICE ALE BIOTEHNOLOGIILOR, 2005, Edit.Printech, Bucuresti, Autori: C.P.Cornea, P.Niculiță, ISBN 973-718-313-4, 394 pagini
- 6. BIOLOGIE GENERALĂ ŞI EVOLUŢIONISM, 2004, Edit.Arta Grafică, Autor: **C.P.Cornea**, ISBN 973-0-03374-9, 277 pagini
- 7. INGINERIE GENETICĂ. Principii de realizare. Aplicații. Aspecte economice și etice, 2002, Edit.Printeh București, Autor : C.P.Cornea, ISBN 973-652-694-1, 291 pag.
- 8. GENETICĂ MOLECULARĂ, 2001, Editura Alma Mater Sibiu, Autori: I.Vătafu, C.P.Cornea, ISBN 973-8371-08-2, 365 pagini
- 9. ELEMENTE DE INGINERIE GENETICĂ, 1999, Editura ALL București, Autori: C.P.Cornea, I.Vătafu, A.Barbu, ISBN 973-9431-08-9, 185 pagini
- 10. Mecanisme moleculare si celulare ale interactiunilor dintre microorganisme si plante, 2011, **Cornea,C.P.**, in Complexitatea biologica sun aspect macro, micro, nano, Editura Academiei Romane, p.51-70, ISBN 978-973-27-2063-9
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- 12. BIOCONTROL OF ALTERNARIA TENUIS DAMPING-OFF OF TOMATO AND PEPPER WITH BACILLUS SPP. STRAINS, 2007, R. Mateescu, C.P. Cornea, I. Grebenişan, G. Câmpeanu, V. Popescu în ISHS Acta Horticulturae vol.761, Editor D.J. Cantliffe, p.163-170, ISBN 978-90-66055-70-4
- Vasilica Stan, Calina Petruta Cornea, Eugenia Gament, Catalina Voaides, Aneta Pop, 2011, Heavy metal resistant Rhizobium leguminosarum biovar trifolii isolates: characterization and use in rhizoremediation of polluted soils, Current Opinion in Biotechnology, Vol.22, supl.1, p. S74
- 2. Calina Petruta Cornea, Catalina Voaides, Vasilica Stan, Eugenia Gament, 2011, Genetic diversity of romanian *Rhizobium leguminosarum* biovar.trifolii strains isolated from root nodules of clover grown in heavy metal polluted soil, Current Opinion in Biotechnology, Vol.22, supl.1, p.S77
- 3. Călina Petruţa CORNEA, Cătălina VOAIDEŞ, Matilda CIUCA, Vasilica STAN, Eugenia GAMENT, Iosif RAZEC, Mirela DUŞA, 2011, Molecular Methods for Assessement the Bacterial Communities from Different Type of Soils in Romania, Notulae Botanicae Horti Agrobotanici Cluj-Napoca, Vol 39, No 1, p.64-70
- 4. Vasilica STAN, Eugenia GAMENT, Călina Petruța CORNEA, Cătălina VOAIDEȘ, Mirela DUŞA, Georgiana PLOPEANU, 2011, Effects of Heavy Metal from Polluted Soils on the Rhizobium Diversity, Notulae Botanicae Horti Agrobotanici Cluj-Napoca, Vol 39, No 1, p.88-95
- 5. Olteanu V., Sicuia, O., Ciuca, M., Carstea, MD., Voaides, C., Campeanu, G., Cornea, CP., 2011, Production of biosurfactants and antifungal compounds by new strains of *Bacillus spp.* isolated from different sources, Rom. Biotechnol. Letts. (vol. 16. supliment), nr. 1, p. 84-91

- 6. Voaides, C., Groposila, D., Ciuca, M., Lupescu, L., Pop, A., Cornea, CP., 2010, PHAs Accumulation in *P. putida* P5 (wild type and mutants) in lipid containing media, Rom. Biotechnol. Letts. vol. 15, nr. 4, p. 5467-5473
- 7. Cornea, C.P., M.Ciucă, C.Voaides, V.Gagiu, M.Oprea, A.Pop, 2011, Incidence of *Aspergillus* species in Romanian bakeries: a molecular approach, Rom.Biotechnol.Letts.,vol.16, nr.1., p.5863-5871
- 8. Cornea, C.P., A.Pop, S.Matei, M.Ciuca, C.Voaides, M.Matei, G.Popa, A.Voicu, M.Stefanescu, 2009, Antifungal action of new *Trichoderma spp.* Romanian isolates on different plant pathogens, BIOTECHNOL.& BIOTECHNOL.EQ. 23/2009/SE SPECIAL EDITION/ON-LINE 45, p.766-770
- 9. Voicu, A., M.Stefanescu, P.Cornea, A.Gheorghe, 2009, Microorganisms with biotechnological potential isolated from natural environments, BIOTECHNOL. & BIOTECHNOL. EQ. 23/2009/SE SPECIAL EDITION/ON-LINE 45, p.747-750
- C.P.Cornea, S,Matei, M.Ciuca, C.Voaides, M.Matei, G.Popa, A.Pop, 2008, Molecular polymorphism in Romanian isolates of *Trichoderma spp*. with antifungal properties, Rom.Biotechnol.Letts, vol, 13, nr.6
- 11. **Cornea, C.P.**, Voaides, C., Ciuca, M., Dinu, S., Costache, M., Draganoiu, M., Severin, V., Oancea, F., 2008, In vitro inhibition of *Erwinia amylovora* romanian isolates by new antagonistic bacterial strains, Rom. Biotechnol. Letts, vol. 13, p.3737-3746
- 12. Narcisa Babeanu, O. Popa, Niculina Gheorghita, Catalina Voaides, **Petruta Cornea**, Marina Pamfil, A. Vamanu, Nela Zambila, E. Vamanu, 2008, The influence of various microbial bio-products, for bean crop, on biological activity of the red preluvosol soil, 2008, *Romanian Biotechnological Letters*, Vol. 13, (2), 3623 3630
- 13. Cornea, C.P., Popa,G., Ciuca,M., Pop,A., Voaides,C., 2008, Plant pathogen interaction and induction of gene expression in tomato, in FEBS Journal, 275 (suppl.1), p.268
- 14. Monica Carasan, **Petruta Cornea**, Florenta Helepciuc, Catalina Voaides, Aurelia Brezeanu, Aneta Pop, 2008, Influence of antagonistic microorganisms treatment on the antioxidant system of plant cells, in FEBS Journal, 275 (suppl.1), p.274
- 15. Csutak,O., Vassu,T., Cornea,C.P., Grebenisan,I., 2007, Genetic characterization of two new *Metschnikowia* strains with antifungal activity, Roum.Biotechnol.Letts, vol, 12, nr.2, p.3175-3182
- 16. **Cornea, C.P.**, Mateescu, R., Voaides, C., Popa, G., Babeanu, N., 2007, Use of *Bacillus licheniformis* based biopreparates for plant growth stimulation and protection against fungal pathogens, Journal of Biotechnology, vol. 131, Issue 2S, sept 2007, S.41
- 17. Băbeanu, N., O. Popa, Cornea, C.P., A. Vamanu, 2007, Plant growth-promoting microbial agents, Journal of Biotechnology, vol. 131, Issue 2S, sept 2007, S.34
- 18. Popa, G., Cornea, C.P., Brezeanu, A., 2007, Influence of different Agrobacterium rhizogenes strains on hairy roots induction in Eustoma grandiflorum, Roum. Biotechnol. Letts., vol. 11, p. 2587-2592
- 19. Voaides C., Cornea P., Tezel R., Babeanu N., 2010, Use of bacterial bioproduct for plant growth stimulation and protection against phythopathogenic fungi, Journal of Horticulture, Forestry and Biotechnology, vol.14,nr.2, p.299-303
- 20. Oancea, F., C.P. Cornea, G. Popa, O.Sicuia, M.Draganoiu, S.Dinu, 2009, Bacillus amyloliquefaciens strain antagonistic to Erwinia amylovora and elicitor of tomato defense response, in IOBC/wprs Bulletin, Vol. 43, 2009, Working Group "Integrated Control of Plant Pathogens", Proceedings of the meeting "Molecular Tools for Understanding and Improving Biocontrol" at Interlaken (Switzerland), 9-12 September, 2008. Edited by Yigal Elad, Monika Maurhofer, Christoph Keel, Cesare Gessler & Brion Duffy (ISBN 978-92-9067-217-3) p.172
- 21. Ittu, M., Cana, L., Ciuca, M., Voaides, C., Cornea, P., 2010, Phenotypic and marker assisted evaluation for pathogenicity and aggressiveness of Romanian *Fusarium* isolates *vs.* Wheat, 11th European Fusarium Seminar "Fusarium Mycotoxins, Taxonomy, Pathogenicity and

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24. Cornea, C.P., Dinu, S., Ciuca, M., Voaides, C., Oancea, F., 2008, Molecular characteriyation of some Azospirillum spp. And Rhizobium spp. Strains useful for plant protection, *Lucrări*

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25. Pop A., Togoe I., Cornea C.P., Cotor G., Tudor L., 2007, Interaction of some plant lectins with poultry gastrointestinal pathogenic bacteria – an alternative to antibiotic therapy, *Proceedings of the 16th European Symposium on Poultry Nutrition*, Strasbourg, France, p.373-376

26. Cornea, C.P., Tezel, R., Voaides, C., Popa, G., Babeanu, N., Popa, O., Boie, J.F., 2007, Bacillus licheniformis based biopreparates useful for planth growth stimulation and protection against fungal pathogens, Lucrari stiintifice - Biotehnologii, 2007, seria F,

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27. Cornea C.P., Ciuca M., Voides C., Popa G., Babeanu N., Pop A., Natural Products with antifungal properties produced by *Pseudomonas spp*. Strains, 2007, *Annals of West University*

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28. Cornea, C.P., Ciuca, M., Voaides, C., Popa, G., Babeanu, N., Pop, A., 2007, Molecular detection of the genes involved in the antifungal properties of some *Pseudomonas spp.* Strains, Bul. USAMV-CN, 63-64, p.350-355

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sp.transformed hairy roots, Roum.Biotechnol.Letts., vol.11, p.2619-2625

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GRANTS – PROGRAMS 2006 – 2010

- 1. PN II 32147/2008 Effects of pollution on natural population size, distribution and genetic diversity of species from *Rhizobium* genus, in different agricultural areas in Romania and their role in soil remediation (acronym ECODIVERGEN) -Responsible (partner)
- 2. PN II 31-078/2007 Natural product based on fungal elicitors used for plant immunization by vaccination against phytopathogens (acronym PEFIMVAF) Responsible (partner)
- 3. PN II 51 040/2007 Managing risks of wheat contamination with fusariotoxins during vegetation (acronym GRIFOX) Responsible (partner)
- 4. PN II 51 005/2007 Integrated system to reduce contamination by fungi and mycotoxins in the bakery industry, in order to increase food security (acronym MYCREDPAN) Responsible (partner)
- 5. CEEX 88/2006 Integrated system to limit damage caused by pathogenic bacteria through the sustainable use of antagonistic strains of microorganisms (acronym POMONA) Responsible (partner)
- 6. P-CD 87/2006 Development of a preventing system for toxinogenic moulds contamination of food products by the predictive microbiology and the molecular biology technique team member
- 7. CNCSIS 1099/2006 Study of mechanisms of action of antifungal and plant growth promoting bacteria Project coordinator
- 8. CEEX 132/2006 Alternative system of agriculture based on biocomposite mulch with multiple actions (acronym ASTARTE) Responsible (partner)
- CEEX 59/2006 Biotechnology-based processes of fermentation and renewable resources to produce biodegradable polyesters with multiple applications (acronym BIOEST) - project coordinator
- CEEX 52/2006 Advanced biotechnologies for obtaining bioproducts to combat diseases of plants of horticultural interest and provide quality products in accordance with EU requirements (acronym BIOCOMB) - project coordinator
- 11. CEEX 38/2005 Conversion products from the manufacture of biofuels in bioproducts for nutrition and plant protection (acronym CONVERTOL) Responsible (partner)

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