



Curriculum vitae



Informații personale	
Nume / Prenume	GAL ADRIAN FLORIN
Adresă	Calea Mănăstur 3-5, Cluj-Napoca, Romania
Telefon	Mobil: -
E-mail	adrian.gal@usamvcluj.ro
Naționalitate	română
Data nașterii	
Sex	masculin
Locul de muncă	Universitatea de Științe Agricole și Medicină Veterinară Cluj-Napoca Facultatea de Medicină Veterinară Disciplina de Biologie celulară, histologie și embriologie veterinară
Domeniul ocupațional	Medic veterinar
Experiența profesională	
Perioada	2002-2005
Funcția sau postul ocupat	Preparator universitar, Disciplina de Anatomie Patologică, Diagnostic Necropsic și Medicină Legală Veterinară, FMV Cluj-Napoca
Numele și adresa angajatorului	USAMV Cluj-Napoca, Calea Mănăstur nr. 3-5
Tipul activității	Diagnostic Necropsic, Histopatologie, Oncologie, Medicină Legală Veterinară
Perioada	2001 – 2009
Tipul activității	Doctorand fără frecvență
Numele și adresa angajatorului	USAMV Cluj-Napoca, Calea Mănăstur nr. 3-5
Tema tezei de doctorat	Studiul tumorilor mamare la cățea
Coordonator doctorat	Prof. Dr. Alecsandru Ioan Baba
Perioada	2005 - 2008
Funcția sau postul ocupat	Asistent universitar, Disciplina de Anatomie Patologică, Diagnostic Necropsic și Medicină Legală Veterinară, FMV Cluj-Napoca
Numele și adresa angajatorului	USAMV Cluj-Napoca, Calea Mănăstur nr. 3-5
Tipul activității	Diagnostic Necropsic, Histopatologie, Oncologie, Medicină Legală Veterinară
Perioada	2008-2013
Funcția sau postul ocupat	Șef lucr., Disciplina de Anatomie Patologică, Diagnostic Necropsic și Medicină Legală Veterinară, FMV Cluj-Napoca
Numele și adresa angajatorului	USAMV Cluj-Napoca, Calea Mănăstur nr. 3-5

Tipul activității	Diagnostic Necropsic, Histopatologie, Oncologie, Medicină Legală Veterinară, Biologie celulară, Histologie și embriologie veterinară
Perioada	2013 - 2017
Funcția sau postul ocupat	Conferențiar, Disciplina de Anatomie Patologică, Diagnostic Necropsic și Medicină Legală Veterinară, FMV Cluj-Napoca
Numele și adresa angajatorului	USAMV Cluj-Napoca, Calea Mănăștur nr. 3-5
Tipul activității	Diagnostic Necropsic, Histopatologie, Oncologie, Medicină Legală Veterinară, Citologie veterinară, Biologie celulară, Histologie și embriologie veterinară
Perioada	din 2017
Funcția sau postul ocupat	Profesor universitar 2017-septembrie 2018: Disciplina de Anatomie Patologică, Diagnostic Necropsic și Medicină Legală Veterinară, FMV Cluj-Napoca Din octombrie 2018 - Coordonator Disciplina de Biologie celulară, histologie și embriologie veterinară
Numele și adresa angajatorului	USAMV Cluj-Napoca, Calea Mănăștur nr. 3-5
Tipul activității	Anatomie patologică, Diagnostic Necropsic, Histopatologie, Oncologie, Medicină Legală Veterinară, Citologie veterinară, Biologie celulară, Histologie și embriologie veterinară
Educație și formare	
Perioada	1991 – 1995
Diploma obținută/calificarea obținută	Diplomă de bacalaureat/Tehnician veterinar
Numele și tipul instituției de învățământ	Liceul Agricol Horea Marghita, jud. Bihor, absolvit ca <i>șef de promoție</i>
Perioada	1995 – 2001
Diploma obținută/calificarea obținută	Diplomă de licență/Doctor Medic Veterinar Lucrare de licență: Studiul tumorilor mamare la cățea și pisică Coordonator științific: Prof Dr. Alecsandru Ioan BABA
Numele și tipul instituției de învățământ	Universitatea de Științe Agricole și Medicină Veterinară Cluj-Napoca, Facultatea de Medicină Veterinară, absolvit ca <i>șef de promoție</i>
Perioada	1995 – 1999
Diploma obținută/calificarea obținută	Certificat de absolvire - Cursul Departamentului pentru pregătirea profesorilor
Numele și tipul instituției de învățământ	Universitatea de Științe Agricole și Medicină Veterinară Cluj-Napoca
Perioada	2001 – 2003
Diploma obținută/calificarea obținută	Diplomă de Master - Diagnostic Morfopatologic și de Laborator Coordonator științific: Prof Dr. Alecsandru Ioan BABA
Numele și tipul instituției de învățământ	Universitatea de Științe Agricole și Medicină Veterinară Cluj-Napoca, Facultatea de Medicină Veterinară
Perioada	2001-2009
Diploma obținută/calificarea obținută	Diploma de Doctor in Stiinte Medical Veterinare Teza de doctorat intitulată «Studiul Tumorilor Mamare la Cățea și Pisică» Conducător Științific Prof. univ. Dr. dr. h.c. Alecsandru Ioan BABA
Numele și tipul instituției de învățământ	Universitatea de Științe Agricole și Medicină Veterinară Cluj-Napoca Facultatea de Medicină Veterinară

Aptitudini și competențe personale										
Limba maternă	Română									
Limbi străine cunoscute	Engleză, Spaniolă									
	Participare la cursuri de limbi straine – <i>engleză</i> , Centrul de Limbi Moderne Access Cluj-Napoca - General English – early-intermediate level - General English – pre-intermediate level - General English - intermediate level Participare la cursuri de limbi straine – <i>spaniolă</i> , Centrul de Limbi Moderne Heltay									
Autoevaluare	Înțelegere				Vorbire				Scriere	
	Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
<i>Limba engleză</i>	E	B2	E	B2	E	B2	E	B2	E	B2
<i>Limba spaniolă</i>	S	A2	S	A2	S	A2	S	A2	S	A1
Cursuri și lucrări practice predate – activitate didactică	<ul style="list-style-type: none"> - Pathological anatomy (curs și laborator linia engleză) - Anatomie patologică (laborator linia română) - Necropsy (curs și laborator linia engleză) - Necropsie (laborator linia română) - Forensic veterinary medicine (curs și laborator linia engleză) - Cellular pathology and comparative oncology (curs și laborator linia engleză) - Patologie celulară și oncologie comparată (curs și laborator linia română) - Cellular biology (curs și laborator linia engleză) - Histology and embryology (curs și laborator linia engleză) - Citologie veterinară (curs și laborator linia română) - Veterinary cytology (curs și laborator linia engleză) - Culturi celulare și tisulare (curs și laborator Biotehnologii medical veterinare) 									
Cărți editate	<p><i>Cell Biology and General Histology</i>, Gal Adrian Florin, Miclăuș Viorel, Ed. AcademicPres • 2009. ISBN 978-973-744-167-6</p> <p><i>Histologie Specială și Embriologie Generală</i>, Miclăuș Viorel, Gal Adrian Florin, Ed. Risoprint Cluj-Napoca • 2010. ISBN 978-973-53-0427-0</p> <p><i>Histology</i>, Ed. Risoprint, Cluj-Napoca, Gal Adrian Florin, Miclăuș Viorel, Ed. Risoprint Cluj-Napoca • 2013. ISBN: 978-973-53-0985-5</p> <p><i>Tehnici de anatomie patologică veterinară</i>, Catoi Cornel, Taulescu Marian, Gal Adrian Florin, Bolfa Pompei, Tabaran Flaviu, Nagy Andras, Borza Gabriel, Raluca Vidrighinescu, Alexandra Irimie, Roxana Cora. Ed. AcademicPres Cluj-Napoca, Romania. ISBN 978-973-744-346-5. • 2014. ISBN 978-973-744-346-5.</p> <p><i>Cell Biology</i>, Gal Adrian Florin, Miclăuș Viorel, Ed. AcademicPres • 2015. ISBN 978-973-744-465-3</p> <p><i>Biologie celulară</i>, Miclăuș Viorel, Gal Adrian Florin, Ed. AcademicPres • 2016. ISBN 978-973-744-543-8</p> <p><i>Cell Biology – a guide in practical activities</i>, Gal Adrian Florin, Ruxandra Flavia, Miclăuș Viorel, Ed. AcademicPres • 2016. ISBN 978-973-744-544-5</p> <p><i>Anatomie Patologică Veterinară: Sistemul Urinar, Sistemul Genital, Sistemul Endocrin, Sistemul Osteomuscular, Piele</i>, Adrian Florin GAL, Cornel CĂTOI, Flaviu TĂBĂRAN, Marian TAULESCU - Cluj-Napoca: AcademicPres, 2017, e-ISBN 978-973-744-587-2.</p> <p><i>Anatomie Patologică: Manual pentru Activități Practice</i>, Adrian Florin GAL, Cornel CĂTOI, Marian TAULESCU, Flaviu TĂBĂRAN, Ed. AcademicPres Cluj-Napoca, 2017, e-ISBN 978-973-744-588-6.</p> <p><i>Histologie Generală</i>, Viorel MICLĂUȘ, Adrian Florin GAL, Ed. AcademicPres Cluj-Napoca, 2017, e-ISBN 978-973-744-630-5</p> <p><i>Histologie Specială și Embriologie generală</i>, Viorel MICLĂUȘ, Adrian Florin GAL, Vasile RUS, Flavia Ruxanda, Ed. AcademicPres Cluj-Napoca, 2017, e-ISBN</p> <p><i>Histologie Generală - Manual Pentru Activități Practice</i>. 2019, Adrian Florin GAL, Vasile RUS, Editura AcademicPres, Cluj-Napoca, România, e-ISBN: 978-973-744-770-8</p> <p><i>Biologie Celulară, Manual Pentru Activități Practice</i>, 2019, Adrian Florin GAL, Vasile RUS, Flavia RUXANDA, Editura AcademicPres, Cluj-Napoca, România, e-ISBN: 978-973-744-769-2</p> <p><i>Basics of Necropsy and Main Diseases in Horses and Ruminants</i>, 2019, Tabaran Alexandru-Flaviu, Cornel Catoi, Adrian Florin Gal, Editura AcademicPres, Cluj-Napoca, Romania, ISBN: 978-973-744-731-9</p>									

	<p>Histologie Specială Și Embriologie Generală - Manual didactic - Adrian Florin GAL, Viorel MICLĂUȘ, Ed AcademicPres 2020, Cluj-Napoca, România, e-ISBN: 978-973-744-837-8.</p> <p>Histologie Specială/ Special Histology, Caiet de Lucrări Practice/ Handbook for Practical Activities, Adrian Florin GAL, Maria Cătălina MATEI-LAȚIU, Editura AcademicPress, 2021, e-ISBN: 978-973-744-914-6 (143 pagini)</p>
Competențe și aptitudini de utilizare a calculatorului	O bună stăpânire a instrumentelor Microsoft Office, Excel, Corel, Adobe Photoshop, Analiză de imagine (Olympus Cell B software)
Competențe și abilități sociale	<p>Capacitate de adaptare la medii multiculturale, obținută prin participarea la simpozioane și specializări în străinătate</p> <p>(I) <i>European Society of Veterinary Pathologists (ESVP) meeting</i>, Belgrade – Serbia and Montenegro, June 2005; (II) <i>25th Annual meeting of the ESVP</i>, München – Germany, September 2007; (III) <i>26th Annual meeting of the ESVP</i>, Dubrovnik – Croatia, September 2008; (IV) <i>29th Annual meeting of the ESVP</i>, Uppsala-Sweden, September 2011; (V) <i>59th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research</i>, Sep 4 - 9, Antalya, Turkey, 2011; (VI) <i>World Small Animal Veterinary Congress-WSAVA</i>, 6-9 Oct., Rhodes, Greece, 2004; (VII) <i>5th International Conference of Ph-D Students (University of Miskolc)</i>, Miskolc, Hungary, 2005; (VIII) <i>6th Anniversary Symposium of the Institute for Diagnosis and Animal Health</i>, Bucharest 11-12 oct., 2011; (IX) <i>30th Meeting of the European Society of Veterinary Pathology</i>, León (Spain), 5-8th Sept., 2012; (X) <i>The First International Conference of Comparative Medicine</i>, Bucharest, Oct. 18-20, 2012; (XI) <i>45 Years of Comparative Oncology in Romania 1968-2013</i>, Bucharest, 29th – 30th November, 2013; (XII) <i>3rd International Congress of the Mediterranean Forum of Comparative Oncology</i>, April 10th-12th, Córdoba, Spain, 2013; (XIII) <i>7th Meeting of the Young Generation of Veterinary Anatomists</i>, Leipzig, July 17-20, 2013; (XIV) <i>International Congress of the Mediterranean Forum of Comparative Oncology</i>, May 18th-21th, Rome, Italy, 2014; (XV) <i>XXXth Congress of the European Association of Veterinary Anatomists</i>, Cluj-Napoca, Romania July 23–26, 2014; (XVI) <i>34th Annual Meeting of the ESVP</i> September 7th – September 10th, 2016, Bologna, Italy; (XVII) <i>The XXXIIIrd Congress of the European Association of Veterinary Anatomists</i>, July 28 -30, 2021, Ghent, Belgium (poster presentation).</p>
Competențe și atitudini organizatorice	<p>Experiență bună a managementului de proiect:</p> <ul style="list-style-type: none"> - Director Proiect – proiecte organizate de CNCSIS: <ul style="list-style-type: none"> * PN II Contract, Human Resources, no. 185/2010 – The study of mammary tumors: vasculogenic mimicry in canine mammary tumors; tumor stem cells - a new hypothetical model of tumorigenesis; the involvement of oxidative stress in mammary chemically induced carcinogenesis Period - 2010-2013. Amount – 340.000 lei; http://www.mamacancerprotect.ro; Coordinator – Adrian Florin GAL. * At Contract, CNCSIS CODE 73 - The study of canine mammary carcinomas. Period - 2002 – 2004; Amount – 5.460 lei; Coordinator – Adrian Florin GAL. * Td Contract, CNCSIS CODE 372 - The study of mammary carcinomas: the study of mammary dysplastic/hyperplastic lesions; achievement of an experimental model in rats to assess the potential of some antioxidative agents in chemically induced mammary tumors. Period - 2006-2007; Amount – 30.500 lei; Coordinator – Adrian Florin GAL. * PN II Contract, CNCSIS CODE 39 – The study of canine and feline mammary tumors. Period - 2008-2009; Amount – 41.319 lei; Coordinator – Adrian Florin GAL. - Membru în 18 proiecte de cercetare (CNCSIS, CEEX- Viasan, CEEX- Agral, Parteneriate în Domeniile Prioritare-PC, PCND) - Organizarea Congresului Internațional ”Joint European Congress of the European Society of Veterinary Pathology and European College of Veterinary Pathologists Cluj-Napoca, Romania 5th September - 8th September 2018”
Schimburi de experiență, stagii de lucru, specializări în străinătate	<p>Stagiu de specializare în Anatomie Patologică, la Facultatea de Medicină Veterinară Cordoba, Spania, 3 luni (mai – iulie), 2004.</p> <p>Simpozion de informare și formare continuă a patologilor veterinari sub patronajul Charles Louis Davis D.V.M. Foundation, Belgrad, Serbia, 2-4 July, 2005.</p>

	<p>Specializare în microscopie confocală, OLYMPUS EUROPA-Hamburg (Germania), noiembrie 2007.</p> <p>Vizită de studiu Olanda-Germania, 6-12 Mai 2012 – Fondul Social European, Programul operațional sectorial Dezvoltarea Resurselor Umane 2007-2013; Titlul proiectului - Școala Post-doctorală în Domeniul Agriculturii și Medicinii Veterinare (POSTDRU/89/1.5/S/62371).</p> <p>Implementarea modelelor biomatematice de monitorizare și predicție a chimiorezistenței strongililor digestivi și alternative terapeutice fără componentă poluantă, USAMV – Disciplina de farmacologie și farmacie, 2007.</p> <p>Participant la workshop-ul: ZEISS DIGITAL CLASSROOM (Organizator NOVAintermed), 28 Martie 2018, USAMV CLUJ-NAPOCA</p>
<p>Domenii de competență</p>	<ul style="list-style-type: none"> - Anatomie Patologică - Diagnostic necropsic și medicină legală veterinară - Oncologie veterinară si comparată - Citologie veterinară - Biologie celulară - Histologie și embriologie veterinară - Culturi celulare și tisulare - Tehnici speciale – imunohistochimie/imunocitochimie, microscopie confocală - Carcinogeneză chimică mamară indusă experimental

<p>Rezultate semnificative</p>	<ul style="list-style-type: none"> - Descrierea histologică și citologică, cuantificarea malignității (AgNOR) și epidemiologia tumorilor mamare la cățea și pisică - Importanța prognostică a biomarkerilor de proliferare Ki-67 și PCNA în cancerul mamar de la cățea - Descrierea angiogenezei intratumorale în tumorile mamare la cățea și importanța prognostică a densității microvasculare intratumorale în tumorile mamare canine - Descrierea modificărilor displazice/hiperplazice din țesutul mamar adiacent carcinoamelor mamare canine și feline și importanța cuantificării acestora în practica veterinară - Descrierea angiogenezei intratumorale și a fenomenului de "vasculogenic mimicry" în diferite tipuri de tumori mamare de la cățea - Expresia receptorului TNFR-II (Receptorul II al Factorului de Necroză Tumorală) în tumorile mamare de la cățea și importanța prognostică a acestuia - Descrierea histologică, histochimică și imunohistochimică a carcinomului mamar "lipid-rich" metastazat la pisică (în <i>premieră mondială</i>) - Elaborarea pentru prima dată la noi în țară a unui model experimental de inducere a tumorilor mamare la șobolani Wistar și Sprague-Dawley, prin utilizarea carcinogenezei chimice (respectiv metil-nitrozo-uree); - Descrierea leziunilor preneoplazice mamare la cățea și șobolani - Evaluarea implicării stresului nitrozativ și oxidativ în carcinogeneza chimică mamară la șobolani Wistar și Sprague-Dawley - Descrierea imunofenotipului și prevalenței imunomarkerilor CD24/CD44 (prin metode imunohistochimice) în diferite tipuri de carcinoame mamare canine, precum și în carcinoamele mamare induse experimental cu MNU la șobolani Sprague-Dawley; biomarkerii menționați semnalează existența așa numitelor celulelor stem tumorale (cancer stem cells), un nou model ipotetic privind carcinogeneza - Studiul efectului protector al unor agenți antioxidanți naturali (astaxantină, polyphenon, propolis) în carcinogeneza chimică mamară, utilizată pe șobolani (femele) Wistar și Sprague-Dawley. Protocolul utilizat, respectiv administrarea zilnică (în hrană sau în apa de băut), timp de cel puțin 7 luni, a agenților protectori menționați reprezintă o premieră la noi în țară; pe plan mondial sunt puține studii similare (nici unul însă care să evalueze gradul de protecție conferit consecutiv administrării cronice a agenților menționați) – publicație <i>Acta Veterinaria Scandinavica</i> - Prezentarea și descrierea în <i>premieră mondială</i> a unui anevrism cardiac cu localizare ventriculară la porumbel; reprezintă prima descriere a unui anevrism ventricular la păsări (articol publicat în revista <i>Avian Diseases</i>, revistă a <i>American Association of Avian Pathologists</i>) - Descrierea unor boli/leziuni rare la animale: parazitismul cu <i>Knemidocoptes jamaicensis</i> la cintează; leziunile induse de <i>Spiroxya contortus</i> la țestoasă (<i>Emys orbicularis</i>), atât la nivel peritoneal cât și gastrointestinal; descrierea anomaliilor vasculare evidențiate la nivelul tendonului flexor profund digital distal la cal; modificările microscopice care apar în urma expunerii corneei de șobolan la radiații UVB; descrierea pentru prima dată la noi în țară a angiosarcomului epitelioid pseudomezoteliomatos la nivel pleural la câine; influența sticlei oxidice cu ioni de argint asupra regenerării osoase la șobolani Wistar.
<p>Activități administrative</p>	<ul style="list-style-type: none"> - Membru în Senatul Universității de Științe Agricole și Medicină Veterinară Cluj-Napoca (2012-2015) - Director adjunct în cadrul Departamentului III, Facultatea de Medicină Veterinară Cluj-Napoca (2012-2015) - Director adjunct în Departamentul III (Paraclinici), FMV, USAMV Cluj-Napoca (2015-2017) - Președinte Comisia de Etică USAMV Cluj-Napoca (2016 - 2019) - Director Departament 1 (preclinici) Facultatea de Medicină Veterinară USAMV Cluj-Napoca (din decembrie 2018 – prezent) - Colegiul Medicilor Veterinari din România: Membru în Comisia Națională pentru Cercetare, Știință și Învățământ (din decembrie 2019 – prezent) - Membru în senatul USAMV Cluj-Napoca (din decembrie 2018 – prezent) - Membru al consiliului FMV Cluj-Napoca (2016 - prezent) - Membru în Biroul electoral al USAMV (2016 - prezent) - Organizator Congresul European denumit: <i>Joint European Congress of the European Society of Veterinary Pathology and European College of Veterinary Pathologists</i> Cluj-Napoca, Romania 5th September - 8th September, 2018
<p>Apartenența la societăți profesionale din țară</p>	<ul style="list-style-type: none"> - Membru al Colegiului Medicilor Veterinari din România - Membru al Societății Naționale de Oncologie Comparată din România - Membru al Societății Române de Patologie Comparată și Experimentală - Membru al Societății Române de Biologie Celulară - Membru în Comisia de etică a Colegiului Medicilor Veterinari Cluj (din 2016)

	<ul style="list-style-type: none"> - Membru în Comisia Națională pentru Cercetare, Știință și Învățământ - Colegiul Medicilor Veterinari din Romania (2020) - Vicepresedinte Comisie Etica Colegiul Medicilor Veterinari - Filiala Cluj (2020)
Apartenența la societăți științifice internaționale	<ul style="list-style-type: none"> - Membru al European Society of Veterinary Pathology - ESVP (Societatea Europeană de Patologie Veterinară) - Membru al Society for Medicinal Plant and Natural Product Research (GA association)
Membru în colegii de redacție	<p>Recenzor la lucrările unor <u>Jurnale indexate BDI</u>: <i>Bulletin UASMV Cluj-Napoca (Medicină veterinară și Animal Sciences and Biotechnologies)</i>, Recenzor la lucrările revistei <i>UASMV București, Scientia Parasitologica, International Research Journal of Medicine and Medical Sciences, American Journal of Anesthesia and Clinical Research, Asian Oncology Research Journal, Merit Research Journal of Medicine and Medical Sciences (MRJMMS), The European Zoological Journal, Uttar Pradesh Journal Of Zoology, Intern Journ of Tropical Disease and Health</i></p> <p>Recenzor la lucrările unor <u>reviste ISI cu factor de impact</u>: <i>Ciencia Rural, Acta Veterinaria Beograd, Biomedicine & Pharmacotherapy, Journal of Investigative Surgery, BMC Veterinary Research, Antioxidants, The Journal of Integrative Neuroscience, Molecules, Curent Stem Cell Research & Therapy, Journal of Investigative Surgery, Lipids in Health and Disease</i></p>
Lucrări de licență și disertație	Îndrumător sau coordonator științific la peste 40 lucrări de licență și disertație
Comisii de admitere, examene și referate, finalizare studii, PhD	<ul style="list-style-type: none"> - 2 comisii de admitere studii de licență (secretar 2012, membru 2013) - membru în comisii de finalizare studii – licență linia engleză 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020 - membru în comisii de finalizare studii – licență linia română 2017, 2018, 2019, 2020 - membru în 3 comisii de specialitate pentru admitere la studiile doctorale - membru în 2 comisii ale Simpozionului Studentesc al USAMV Cluj-Napoca (2012, 2013) - membru în 5 comisii de avansare 2013 (candidat Tăbăran Flaviu; candidat Nagy Andras, 2014 (candidat Rus Vasile), 2016 (candidat Ruxanda Flavia), 2018 (Flavia Ruxanda, Raluca Marica), 2019 (Nan Monica – presedinte comisie) - membru comisie de avansare FMV Bucuresti: 2 posturi Conferențiar (Raita Ștefania Mariana – 2018; Teodor Soare - 2019) - Referent oficial Comisii doctorat: Negru Mihai, Mârza Sorin, Biriș Alexandra, Popa (Cora) Roxana, Simona Vișan, Matosz Bianca, Negru Mihai, Ghiurco Florin
Lucrări științifice publicate	<p>Peste 214 de lucrări științifice din care:</p> <ul style="list-style-type: none"> - 30 articole publicate <i>in extenso</i> în reviste cotate ISI cu factor de impact (11 ca autor principal) – <u>Factor de impact cumulată peste 42,67.</u> - 33 articole publicate sub formă de <i>abstract</i> în reviste cotate ISI cu factor de impact (7 ca autor principal). - peste 151 articole BDI (52 autor principal, 99 coautor). <p>Peste 25 participări la congrese/simpozioane internaționale cu prezentarea orală și publicarea rezumatului.</p>
Vizibilitate internațională, Citări	<ul style="list-style-type: none"> - 125 citări în reviste cotate ISI al unor lucrări publicate anterior <ul style="list-style-type: none"> o citări în reviste cu factor de impact ridicat: <i>Antioxidants</i> IF - 5.014; <i>Antibiotics</i> IF - 3.8930; <i>Journal of the European Academy of Dermatology and Venereology</i> IF - 5.2480; <i>Carcinogenesis</i> IF - 5.3340; <i>International Journal of Molecular Sciences</i> IF - 4.5560; <i>Pharmaceutics</i> IF - 4.4210; <i>Journal of Photochemistry and Photobiology B: Biology</i> IF - 4.0670; <i>Science of The Total Environment</i> IF - 5.589; <i>Scientific reports</i> IF - 4.122; <i>Food Chemistry</i> IF - 4.529; <i>Disease models & mechanisms</i> – IF - 4.691; <i>Scientific reports</i> IF - 4.122; <i>European Journal of Pharmaceutical Sciences</i> IF - 3.532; <i>Biochimica et Biophysica Acta (BBA)</i> IF – 3.829; <i>Marine drugs</i> IF – 3.512; <i>Journal of agricultural and food chemistry</i> IF – 3.107; <i>Diagnostic Pathology</i> 2014, IF – 2,41; <i>Mycopathologia</i> IF - 1.545; <i>Chemical Toxicology</i> IF - 2.610; <i>Fitoterapia</i> IF - 2.216; <i>Food and Chemical Toxicology</i> IF - 2.610; <i>Journal of Photochemistry and Photobiology B: Biology, IF - 2.803; <i>Experimental and Clinical Endocrinology & Diabetes</i> IF - 1.760, etc.</i> - 58 citări în reviste cotate BDI a unor lucrări publicate anterior; - 11 citări în carti internationale /recunoscute CNCSIS - indicele h-index Google academic = 8;
Premii obținute	<p>Articole ISI publicate și premiate de UEFISCDI (premierea rezultatelor cercetării):</p> <ul style="list-style-type: none"> - The first description of a congenital right ventricular cardiac aneurysm in a pigeon (Columba livia domestica, Cluj blue tumbler pigeon), AVIAN DISEASES, (DOI: 10.1637/10156-040912-Case.1). Gal AF (*Principal Author), Tăbăran F, Taulescu M, Cătoi C. – 2013 - Effects of astaxanthin supplementation on chemically induced tumorigenesis in Wistar rats ACTA VETERINARIA SCANDINAVICA Volume: 54 Article Number: 50 (DOI: 10.1186/1751-

	<p>0147). Adrian F Gal (*Principal Author), Sanda Andrei, Cristina Cernea, Marian Taulescu, Cornel Catoi – 2013</p> <ul style="list-style-type: none"> - Multidisciplinary analysis of Knemidocoptes jamaicensis parasitising the Common Chaffinch, Fringilla coelebs: proofs for a multispecies complex? PARASITOL RES, 112:2373–2380 (DOI 10.1007/s00436-013-3402-7). Jacek Dabert, Mirosława Dabert, Adrian F. Gal (*Principal Author), Viorel Miclăuș, Andrei D. Mihalca, Attila D. Sándor - 2013 - Metastatic cholangiocarcinoma in a llama (Lama glama). J VET DIAGN INVEST.;24(5):986-9 (doi: 10.1177/1040638712452110). Taulescu MA, Bolfa PF, Buiga R, Gal AF, Sevastre B, Morar I, Catoi C. – 2013 - HISTOLOGICAL ASPECTS OF THE ESOPHAGUS IN GUINEA PIGS. Vasile Rus, Flavia Ruxanda*, Aurel Damian, Călin Nuț, Cristian Martonos, Gabriela Dogaru, Viorel Miclăuș, Adrian Florin Gal (Principal Author). BEST POSTER AWARD - 18th International Conference "Life Sciences for Sustainable Development" - PN-III-P1-1.1- PRECISI-2020- 43430 - Intentional Carbofuran Poisoning in 7 dogs. Tabaran, F., Pivariu, D., Oros, A. N., Gal, A., Martonos, C., & Nagy, A. L. Volume: 16 Issue: 1 Article Number: 318. DOI: 10.1186/s12917-020-02534-w (2020). DOI: 10.21203/rs.2.18681/v3 1 - PN-III-P1-1.1- PRECISI-2020- 43787 - Chemopreventive Effects of Propolis in the MNU-Induced Rat Mammary Tumor Model. Gal, A. F., Stan, L., Tăbăran, F., Rugină, D., Cătoi, A. F., & Andrei, S. (2020). Chemopreventive Effects of Propolis in the MNU-Induced Rat Mammary Tumor Model. Oxidative Medicine and Cellular Longevity, 2020. - PN-III-P1-1.1- PRECISI-2020- 49702 - Impact of Alpha-Lipoic Acid Chronic Discontinuous Treatment in Cardiometabolic Disorders and Oxidative Stress Induced by Fructose Intake in Rats. Ghibu, S., Craciun, C. E., Rusu, R., Morgovan, C., Mogosan, C., Rochette, L., Gal A.F. & Dronca, M. (2019). Antioxidants, 8(12), 636. <p>- Profesorul anului în anul 2018 – linia română; 2019 – linia engleză; 2021 – linia engleză.</p>
Permis de conducere	Categoria B
Anexe	<p>Anexa 1. Experiența acumulată (inclusiv experiența managerială) în programe/proiecte naționale/internaționale</p> <p>Anexa 2. Activitate publicistică</p>

Anexa 1. Experiența acumulată (inclusiv experiența managerială) în programe/proiecte naționale/internaționale

Programul/Proiectul	Funcția	Perioada	Suma
Contract At, COD CNCSIS 73 - „ Studiul carcinoamelor mamare la cățea ”	director	2002 - 2004	5.460 lei
Contract Td, COD CNCSIS 372 - Studiul carcinoamelor mamare: studiul leziunilor displazice/hiperplazice mamare, realizarea unui model experimental pe sobolani și influența antioxidanților în carcinogeneza chimică mamară.	director	2006-2007	30.500 lei
Contract PN II, COD CNCSIS 39 – Studiul tumorilor mamare la cățea și pisică	director	2008-2009	41.319 lei
Contract PN II Resurse umane, nr 185/2010 – Studiul tumorilor mamare: vasculogenic mimicry în tumorile mamare canine, celulele stem tumorale – un nou model ipotetic al tumorigenezei, implicația stresului oxidativ în carcinogeneza chimică mamară.	director	2010-2013	340.000 lei
Contract CNCSIS tip A multianual, 40530/05.11.2003, COD CNCSIS 77 -“ Controlul hiperplaziei intime prin modularea hemodinamicii locale ”. Director: Cornel Cătoi	membru	2003-2005	
Contract CNCSIS tip A multianual - Cod CNCSIS 1123 - Investigații privind terapia celulară în bolile vasculare. Director: Cornel Cătoi	membru	2006-2008	
CEEX Viasan 185/2006 - Infecția cu Helicobacter pylori la om și animale – posibilități de transmitere a infecției, implicații în patologia umană și veterinară, tipizarea tulpinilor bacteriene, testarea rezistenței la antibiotice (HELICOPAT-EPID) Coordonator – UMF Cluj, Andreica Vasile P1 USAMV - resp. Cornel Catoi	membru	2006-2008	
CEEX - Viasan 147/2006 - Utilizarea tehnologiilor micro si tissue-array in stabilirea semnaturii moleculare a tumorilor ovariene epiteliale cu potential redus si inalt de malignitate. Identificarea genelor candidate in angiogeneza tumorala borderline – MT-ARRAY-SIGN Coordonator - Institutul Oncologic Partener 2 - USAMV, Responsabil USAMV Catoi Cornel	membru	2006-2008	

CEEX - AGRAL 28/2006 - Creșterea rezistenței la scrapie în populațiile de ovine din România prin selecția asistată la nivel molecular pentru dezvoltarea durabilă a creșterii și exploatarei ovinelor, asigurarea securității alimentare și a sănătății populației	membru	2006-2008	
PARTENERIATE IN DOMENIILE PRIORITARE, Categoria de proiect: PC 41 - 072/2007 - Dezvoltarea prin cercetare interdisciplinara a unei noi terapii medicamentoase destinata asigurarii neuroprotectiei in ischemia cerebrala - NEUROPROTER	membru	2007-2010	
PARTENERIATE IN DOMENIILE PRIORITARE, Categoria de proiect: PCND – Capacitati modul1/106 CP-1/2007 - Dezvoltarea capacității de cercetare și de expertiză a laboratorului de medicină legală veterinară prin modernizare tehnică și metodologică; acreditarea laboratorului - MELVET	membru	2007-2009	
CNCSIS A - Remodelarea vasculara postlezionala pe model animal Director de grand Prof. Dr. Radu Căpâlneau; UMF Cluj-Napoca	membru	2003-2005	
CNCSIS A - Biologia celulei canceroase: studii citologice si biochimice in cancere spontane si neoplasme induse experimental, in vederea imbunatatirii tehnicilor de diagnostic precoce al tumorilor Director – Prof. Dr. A.I. Baba	membru	2004-2006	
PARTENERIATE IN DOMENIILE PRIORITARE, Contract Nr. 42-104/01.10.2008; CHEMPROTECT - Fotochemoprotectia prin produse naturali in neoplaziile cutanate epiteliale fotoinduse; Contractor: Universitatea de Medicina si Farmacie Iuliu Hatieganu Cluj-Napoca; Director Adriana Filip Partener 2 USAMV Cluj-Napoca; Responsabil Prof. Dr. Cornel Catoiu	membru	2008-2011	
PARTENERIATE IN DOMENIILE PRIORITARE, Contract Nr. 12-131/01.10.2008; HEMOSEP - Sistem expert pentru prognoza neinvaziva a evolutiei afectiunilor hepatice cronice prin analiza parametrilor biologici si de hemodinamica portala Contractor: Universitatea de Medicina si Farmacie Iuliu Hatieganu Cluj-Napoca; Director Simona Clichici Partener 2 USAMV Cluj-Napoca; Responsabil Prof. Dr. Cornel Catoiu	membru	2008-2011	
PARTENERIATE IN DOMENIILE PRIORITARE, Contract Nr. 42-112/01.10.2008; NANOCITOX - Evaluarea si modularea biodistributiei si citotoxicitatii nanotuburilor de carbon cu aplicatii biomoleculare Contractor: Universitatea de Medicina si Farmacie Iuliu Hatieganu Cluj-Napoca; Director Simona Clichici Partener 1 USAMV Cluj-Napoca; Responsabil Prof. Dr. Cornel Catoiu	membru	2008-2011	
CNCSIS – IDEI, Contract 1484/2008, Investigatii privind rolul inflamatiei si al celulelor precursorare endoteliale in neovascularizatia tesutului adipos in obezitate Contractor: Universitatea de Stiinte Agricole si Medicina Veterinara din Cluj-Napoca, Director Cornel Catoiu	membru	2008-2011	
PARTENERIATE IN DOMENIILE PRIORITARE – PN II programul 4, Contract Nr. 52104/2008; CAPRINOGEN – De la ADN la brânză: studiul impactului polimorfismului markerului genetic cazeina alfa-s1 la rasa de caprine carpatinașasupra calității laptelui, randamentului de obținere a brânzeturilor și proprietăților senzoriale. Contractor: Universitatea de Stiinte Agricole si Medicina Veterinara din Cluj-Napoca, Director Vlaic Augustin. Valoare totală – 1.980.000 RON	membru	2008-2011	
PNII PCCA , tip 2, nr. 95/2012, 2-1660, Dezvoltarea si evaluarea preclinica a unor nano-sisteme farmaceutice pentru terapia țintită a cancerului colorectal. Contractor: UMF Cluj-Napoca. Responsabil: Cornel Cătoi	membru	2012-2015	
PNII PCCA tip 1, nr.76/2012, 1-1586, Profilaxia nanomediata a cancerului de colon la soareci utilizand un vaccine sinergic nanoparticule de aur conjugate cu MUC-1/celule dendritice. Responsabil: Cornel Cătoi	membru	2012-2015	
POC A1-A1.1.4 E-2015: Hiperuricemia induce inflamatie: tintirea rolului central al acidului uric în bolile reumatologice si cardiovasculare. Director proiect: Leonardus Joosten	membru	2016-2020	
Project title: The impact of obesity and oxidative stress in the development of heart failure with preserved ejection fraction. The effect of an antioxidant treatment with alpha-lipoic acid / Impactul obezității și al stresului oxidativ în dezvoltarea insuficienței cardiace cu fracție de ejecție prezervată. Efectul unui tratament antioxidant cu acid alfa-lipoic. Project Acronym: OLAF	membru	2018-2020	

ANEXA 2. ACTIVITATE PUBLICISTICA

Publicații BDI

Autor principal (prim-autor, corespondent, ultim autor)

1. BABA, A. I., C. CĂTOI, **A. GAL**, 2001 - Tumor angiogenesis, Romanian Journal of Comparative Oncology, 5: 326-333.
2. CĂTOI, C., A. I. BABA, SORINA IACOB, **A. GAL**, 2002 - Morfologia endoteliului trunchiurilor arteriale în contextul canalului arteriei persistente la câine, Bul. Soc. Naț. De Biol. Cel., 30, 74, ISBN 973-85316-8-3.
3. **GAL, A.**, A.I. BABA, C. CĂTOI, SORINA IACOB, FLORINA BOLOȘ, E. DOMBAY, 2003 - Malignancy markers of canine and feline mammary neoplasms, Bulletin UASMV-CN, 60/2003 (1-5), 80-85, ISSN 1454-2382.
4. **GAL A.**, A.I. BABA, SORINA IACOB, E. DOMBAY, C. CĂTOI., 2004 - Histological and cytological criteria in bitch mammary neoplasm, Buletinul UASMV-CN, 61 (1-5), 77-83, ISSN 1454-2382.
5. **GAL A.**, A.I. BABA., 2004 - Aspecte morfopatologice într-un focar de tuberculoză bovină, poster, Buletinul USAMV-CN, 61 (1-5), 272, ISSN 1454-2382.
6. DOMBAY E., C. CĂTOI, A.I. BABA, SORINA IACOB, **A. GAL**, 2004 - Pathological changes in experimental diabetes melitus in dogs, Bulletin UASMV-CN, 61/2004 (1-5), 66-72, ISSN 1454-2382.
7. **GAL A.**, MANUELA GAL, C. CĂTOI, SORINA IACOB, FLORINA BOLOS, E. DOMBAY, A.I. BABA, 2005 - Nuclear organization region, malignancy markers in bitch cytology mammary tumors, UASMV-CN Bulletin, 62, 138-144, ISSN 1454-2382.
8. **GAL A.**, A INCZE, 2005, Investigations regarding morphopathological diagnose in a period of 10 years in pigs, poster, UASMV-CN Bulletin, 62, 616, ISSN 1454-2382.
9. **GAL, A.**, A.I. BABA, C. CĂTOI, SORINA IACOB, E. DOMBAY, I. RUS, 2006 - Hiperplastic/Displastic lessons in tissue surrounding mammary malign tumors, Progrese si perspective in medicina veterinara, Iasi, pg. 8-9.
10. **GAL, A.**, BABA A. I., CĂTOI C., SORINA IACOB, RUS V., DOMBAY E., 2006 - Mammary induced carcinogenesis by methyl-nitroso urea in impubere Whistar rats, Bulletin UASMV-CN, 63/2006, ISSN 1454-2390: 96-101.
11. **GAL, A.**, CĂTOI C., BABA A. I., 2006 - Benign and malign chemodectoma in aortic body in three dogs, Bulletin UASMV-CN, 63/2006, ISSN 1454-2390: 434.
12. **GAL A.**, HENER ADRIANA, A.I. BABA, C. CATOI, I. RUS, 2007 – Prognosis significance of intratumor microvessel density in bitch and cat mammary tumors, Bulletin UASMV-CN, vol. 64 (1-2): 151, print ISSN 1843-5270, electronic ISSN 1843-5378.
13. **GAL A.**, C. CĂTOI, I. RUS, M. TAULESCU, P. BOLFĂ, I. LAKATOS, A.I. BABA, 2008 – The study of vascularisation in bitch mammary tumors, Bulletin UASMV-CN, 65 (1)/2008, ISSN 1843-5270: 388 - 394.
14. **GAL A.**, C. CĂTOI, A.I. BABA, I. RUS, M. TAULESCU, P. BOLFĂ, 2008 – Anatomopathological aspects in circovirus in pigs, Scientific papers vol. XLI – Timișoara, 331 – 339.
15. OANA L., OBER C., PESTEAN C., MICLAUS V., CATOI C., **GAL A.**, 2009 – Muscular regeneration after prosthetic implants at abdominal wall region in rabbits, Bulletin UASMV-CN, 66 (2)/2009, ISSN 1843-5270: 240-246.
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17. **GAL A.**, C. CĂTOI, I., A.I. BABA, V. MICLAUS, Daniela CERBU, I. LAKATOS, 2009 – Relationship between PCNA proliferating marker and Angiogenesis in bitch mammary cancer, Bulletin UASMV-CN, 66 (1)/2009, ISSN 1843-5270: 490.
18. **GAL A.F.**, V. MICLAUS, OANA L., RUS V., OBER C., PESTEAN C., 2009 – Histological features of poorly differentiated eyelid squamous carcinoma in cow, Annals of the Romanian Society for Cell Biology, vol. IV-issue1, ISSN 1583-6258: 139-141.
19. **GAL A.F.**, V. MICLAUS, OANA L., Catoi C., RUS V., OBER C., PESTEAN C., 2009 – Eyelid squamous carcinoma associated with diffuse keratin granuloma, The simposium "Progrese si Perspective in Medicina Veterinară", Iasi-Romania, vol. 52 (11) – part 1, ISSN 1454-7406: 102-105.
20. MICLĂUȘ V., N. CORNILĂ, C. CĂTOI, **A. F. GAL**, 2010 - Observations regarding odontogenesis in rat, Contributions of Scientific Research to the Progress of Veterinary Medicine, FMV București, România, 2010, 109.
21. **GAL A.F.** CATOI C. BABA A.I., MICLAUS V. BOLFA P., TAULESCU M., TABARAN F., NAGY A., MOUSSA R., COSMINA CUC, 2010 - Aspects regarding vasculogenic mimicry in canine mammary cancer, Lucrari Stiintifice, Vol. 53 (12), Medicina Veterinara, Partea I, Universitatea de Stiinte Agricole si Medicina Veterinara "Ion Ionescu de la Brad" Iasi, pp 49-59.
22. **GAL A.**, V. MICLAUS, C. CATOI, V. RUS, L. OANA, A. DAMIAN, 2010 - Affection of sanguine vessels and biliary ducts in chronic interstitial fibrous hepatitis caused by migration of *Ascaris suum* larvae through piglets' liver, Annals of RSBC, vol XV issue 1, pg 118-123.
23. **GAL A.**, C. CATOI, AL. BABA, V. MICLAUS, M. TAULESCU, C. CUC, F. TABARAN, A. NAGY, R. MOUSSA, 2010 - Expression of 2-nd Receptor of Tumor Necrosis Factor Cytokine (TNFR-II) in Canine Mammary Neoplasms, Bulletin UASVM, Veterinary Medicine 67(1)/2010, ISSN 1843-5270; eISSN 1843-5378, pp. 64-71.
24. **GAL A.**, C. CATOI, M. MIRCEAN, A.L. BABA, 2010 - Pseudomesotheliomatous epithelioid angiosarcoma in one dog: a pleural lesion that mimes malignant pleural mesothelioma, Bulletin UASMV, Veterinary Medicine 67(1)/2010, ISSN 1843-5270; eISSN 1843-5378, pp. 367.
25. **ADRIAN FLORIN GAL**, ALECSANDRU BABA, VIOREL MICLAUS, COSMINA BOUARI, MARIAN TAULESCU, POMPEI BOLFĂ, GABRIEL BORZA, CORNEL CATOI, 2011 - Comparative aspects regarding MNU-induced mammary carcinogenesis in immature Sprague-Dowley and Whistar rats, Bulletin UASVM, Veterinary Medicine 68(1), 159-163.
26. **GAL A.F.**, A.I. BABA, COSMINA BOUARI, G. BORZA, C. CĂTOI, 2011 - Chemoprevention Degree of Polyphenon E from Green Tea in Chemically Induced Mammary Tumors in Sprague-Dawley Female Rats, Bulletin UASVM, Veterinary Medicine 68(1), 389-390.
27. ALECSANDRU IOAN BABA, CORNEL CĂTOI, **ADRIAN GAL**, 2011 - Oncogenesis through Stem Cells, Bulletin UASVM, Veterinary Medicine 68(1), 56-61.
28. **GAL A.F.**, GHEȚA ALEXANDRA, OANA L., ȘTEFAN R., BABA A.I., MICLAUS V., TAULESCU., BOLFA P., CATOI C., 2012 - Histological findings regarding the influence of glass oxide coated with silver in bone healing in Wistar rats, *Rev. Rom. Med. Vet.* 2 (vol 23), 135-142.

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30. **GAL A.F.**, V. MICLĂUȘ, M. TAULESCU, P. BOLFĂ, F. TĂBĂRAN, COSMINA BOUARI, C. CĂTOI, 2012 - Concurrent mammary adenocarcinoma and lymphoma in MNU-induced tumorigenesis in a Sprague-Dawley female rat (case report), *Bulletin UASMV, Veterinary Medicine*, 69(1-2): 98-100.
31. **GAL ADRIAN FLORIN**, VIOREL MICLĂUȘ, MARIAN TAULESCU, FLAVIU TĂBĂRAN, ANDRAS NAGY, COSMINA, BOUARI, RALUCA VIDRIGHINESCU, ROXANA CORA, CORNEL CĂTOI, 2014 - Cases with Hyperplasia and Neoplasia in Endocrine Glands in Dogs, *Bulletin UASVM Veterinary Medicine* 71(2):337-342.
32. SANDA ANDREI, ADELA PINTEA, DUMITRITA RUGINA, CRISTINA STEFANUT, ANDREA BUNEA, **FLORIN A. GAL**, 2014 - Protective Activity of Polyphenon E Against Liver Protein Oxidation in Rats after Mnu IP Administration." *Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Veterinary Medicine* 71(1): 15-18.
33. **GAL Adrian Florin**, ANDRIOPOULOU, A., MICLĂUȘ, V., TĂBĂRAN, F., TAULESCU, M., Andras, NAGY., ... & CĂTOI, C. (2015). Comparative Data Concerning the Incidence of Tumors in Dogs in a Period of Ten Years in Athens (Greece) and Cluj-Napoca (Romania). *Bulletin UASVM Veterinary Medicine*, 72, 2, 371-377.
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35. Cora, R., **Gal, A. F. (coresponding author)**, Taulescu, M., Tabaran, F., Vidrighinescu, R., & Catoi, C. (2015). The utility of fine needle aspiration cytology in canine lymphadenopathies. *Annals of the Romanian Society for Cell Biology*, 19(2), 47, 47 – 54.
36. **Adrian Florin Gal**, Viorel Miclaus, Flaviu Tabaran, Marian Taulescu, Andras Nagy, Roxana Cora, Vasile Rus, Cornel Catoi. (2016). Pathological findings in accidental electrocution in a horse (case report). *Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Veterinary Medicine*, 73(2), 291-294.
37. **GAL, A.**, RUS, V., TAULESCU, M., TĂBĂRAN, F., CORA, R., CĂTOI, C., & MICLĂUȘ, V. (2016). A multiple endocrine neoplasia syndrome in one dog. *Annals of R.S.C.B.*, Vol. XX, Issue 2, pp. 29 – 34.
38. RUS, V., RUXANDA, F., RAȚIU, C., **GAL, A. (coresponding author)**, & MICLĂUȘ, V. (2016). The presence and significance of the esophageal glands in the abdominal esophagus in dog. *Annals of R.S.C.B.*, Vol. XX, Issue 2, pp. 11 – 14.
39. **Adrian Florin Gal**, Vasile Rus, Flavia Ruxanda, Bianca Matosz, Viorel Miclăuș. (2016). Microanatomy Of The Eye Structures In Merino Crossbreed Lambs. *LUCRARI ȘTIINȚIFICE VOL. 59 MEDICINA VETERINARA PARTEA 1*, Iasi, 12–16.
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