

## Curriculum Vitae



### Personal information

First name / Surname

**TRIPON Septimiu Cassian**

Address

67-103 Donat street, 400293 Cluj Napoca, Romania

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Nationality

Romanian

Date of birth

15.10.1978

Gender

Male

### Occupational field

**Technology Development Engineer**

#### Work experience

Dates

October 2015 - present

Occupation or position held

Technology Development Engineer

Main activities and responsibilities

electronic microscopy techniques, optical microscopy, image processing

Name and address of employer

National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj Napoca, Romania, 67-103 Donat street Po Box 700, 400293, e-mail; itim-cj.ro, <https://www.itim-cj.ro/>

Type of business or sector

Advanced research

### Occupational field

**Electron microscopy technician**

#### Work experience

Dates

February 2008 - present

Occupation or position held

Electron microscopy technician

Main activities and responsibilities

electronic microscopy techniques, optical microscopy, image processing

Name and address of employer

Babes – Bolyai University, Cluj Napoca, Kogalniceanu street, nr. 1, website: <http://www.ubbcluj.ro/en/>

Type of business or sector

higher education and research

## Education and training

**Dates** **2005 - 2008**  
**Title of qualification awarded** Licensed diploma  
**Principal subjects/occupational skills covered** Biochemistry, parasitology, compared anatomy, animal physiology, microbiology, cytology  
**Name and type of organisation providing education and training** University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Faculty of Veterinary Medicine (<http://www.usamvcluj.ro/eng/>)  
**Level in national or international classification** Engineer in veterinary biotechnology

**Dates** **2001 - 2005**  
**Title of qualification awarded** Graduation diploma  
**Principal subjects/occupational skills covered** Veterinary pharmacy  
**Name and type of organisation providing education and training** University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca; College of Veterinary Clinic and Pharmacy  
**Level in national or international classification** Assistant, Veterinary Clinic and pharmacy.  
**Mother tongue(s)** Romanian

### English

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
very well	well	well	well	well	

**Social skills and competences** Good communication abilities, increased attention and flexibility in thinking and actions, patience  
**Organisational skills and competences** Good organizer with a professional spirit developed in the work of education and research.  
**Technical skills and competences** The organisation of proper testing, ability to run more tasks, proper coordination of the processing of biological samples.  
**Computer skills and competences** Proper training in the use of Microsoft Windows, Microsoft Office, Photoshop, Image, Pro Plus, Soft Imaging Wiewer, image processing, internet.  
**Artistic skills and competences** drawing, furniture painting, architecture, design, photography.  
**Driving licence** Romanian drivers licence, Category B vehicle

**Additional information****Contests, workshops and diploma:**

2006 – 2007 – Diploma of merit for outstanding results from learning and involvement in the activity of scientific research, as a student, USAMV, Cluj Napoca.  
2007 – 3rd Prize, Scientific Student Papers session, section: Fundamental and Pre-clinical Sciences, University of Agricultural Science and veterinary medicine.  
2008 - Annual session of Cellular Biology, Cluj Napoca.  
2009 - Annual Session of the Roman Society of Cellular Biology, Bistrita.  
2010 – The National Session of the Society of Cellular Biology, Constanta.

**Publications and articles:**

**2006** – Cernea M., **Tripon S.**, Criteria for choosing a veterinary practice in pet owners, Buletin USAMV, Cluj Napoca, pp. 45-48 nr. 63/2006

**2008** – Ognean L., Cernea Cristina, Cernea M., **Tripon S.**, The evaluation of comparative biodisponibility of two antihelmintics based on fenbendazol, Praziquantel and Pyrantel pamoat, Clujul Medical Veterinar, pp. 26-27, nr. 14/2008

**2008** – Ognean L., Moldovan Meda, Cristina Cernea, Cernea M., **Tripon S.**, Blood transfusion compatibility test in dog and other pets, pp. 118-122, Annals of RSCB, vol. XIV, issue 2, 2008.

**2009** – Gabriela Dogaru, Craciun C., Toader S., **Tripon S.**, Pop L., Structural and ultrastructural changes in the adrenal glands of rats undergoing pulsed short wave treatment, pp. 80-86, Annals of RSCB, vol. XIV, issue 2, 2009.

**2009** - Corneanu C. Gabriel, Crăciun Constantin, **Tripon Septimiu**; The structural feauters of the *Bobinia Pseudoacacica* var. *Oltenica* leaves, cultivated on degraded soils (sterile waste drums). Annales of Craiova University, Agriculture, Montanologie, Cadastre , vol.XXXIX , 2009

**2010** – Barbu-Tudoran L., Parvu M., Vlase L., **Tripon S.**, Rosca Casian O., Puscas M., Ultrastructural changes in *Fusarium Oxysporum* spore print of f. SP. *Tulipae*, treated with vegetable extract of *Allium Fistulosum*, The Romanian society of cell biology, vol. 38, scientific session, Constanta, 2010.

**2010** – Corneanu G., Craciun C., Corneanu Mihaela, **Tripon S.**, Lazau Carmen, Grozescu Ioan, Eukaryotic animal cell interaction with TiO<sub>2</sub> nanoparticles doped with various metals, The Romanian society of cell biology, vol. 38, scientific session, Constanta, 2010.

**2010** – Corneanu G., Craciun C., Corneanu Mihaela, **Tripon S.**, Effect of radionuclides and heavy metals and/or structural and ultrastructural level, The Romanian society of cell biology, vol. 38, scientific session, Constanta, 2010

**2010** – Parvu M., Barbu-Tudoran L., Rosca Casian Oana, Vlase L., **Tripon S.**, Ultrastructural changes in *Fusarium Oxysporum* F. Sp. *Tulipae* hyphae teated *in vitro* with *Allium Fistulosum* plant extract, pp. 65-72, Annal RSCB, vol. XV, issue 2, 2010.

**2011** – Alina Elena Parvu, C. Craciun, **S. Tripon**, S.F. Alb, M.A. Taulescu, Simona Clichici, Alexandra Craciun; Mechanical therapy effect in chronic periodontitis; pp. 154 – 159; Annal RSCB, vol. XVI, issue 1, 2011.

**2011** – Alina Elena Parvu, C. Craciun, **S. Tripon**, S.F.Alb, M. A. Taulescu, Simona Clichici, Alexandra Craciun; Histopathological and ultrastructural investigation of gingival tissue from patients with chronic periodontitis; pp. 186 - 193; Annal RSCB, vol. XVI, issue 1, 2011.

**2011** – Liliana Jarda, Victoria Cristea, C. Craciun, **S. Tripon**; Comparative study of *Dianthus Giganteus* subsp. *Banaticus* leaves anatomy in different growing conditions I. Light microscopy aspects; pp. 331 - 337; Annal RSCB, vol. XVI, issue 1, 2011

**2011** - Liliana Jarda, Victoria Cristea, C. Craciun, **S. Tripon**; Comparative study of *Dianthus Giganteus* subsp. *Banaticus* leaves anatomy in different growing conditions II. Ultrastructural aspects; pp. 338 - 348 ; Annal RSCB, vol. XVI, issue 1, 2011.

**2011** – Ramona Maria Maxim, Marius Costel Alupei, **Septimiu Tripon**, Manuela Banciu; Evaluation of the inhibitory effects of statins on blood vessel development – prospects for antiangiogenic therap of cancer. *Studia Universitas Babeş – Bolyai, Biologica* 2/2011 (LVI) 2011

**2012** – Carla Brígita Lukaci, Camelia Munteanu, Mihaela Crişan, Ionuţ Uţiu, Alina Filip, Constantin Crăciun, **Tripon Septimiu**, Corina Roşioru, Camelia Lang; Unexpected changes caused by Red Bull mixed with alcohol on central nervous system. *Bulletin of Romanian Society for Cell Biology*, no. 40., June 2012. The 4 th International Congres and the 30 th annual scientific session of RSCB, June 13 – 17, 2012, Satu Mare – Debrecen.

**2012** - Camelia Munteanu, Carla Lukaci, Ioan Uţiu, Mihaela Crisan, Alina Filip, Constantin Crăciun, **SeptimiuTripon**, Corina Rosioru, Camelia Lang; Biochemical and ultrastructural effects of Red Bull consumption on central nervous system. *Bulletin of Romanian Society for Cell Biology*, no. 40., June 2012. The 4 th International Congres and the 30 th annual scientific session of RSCB, June 13 – 17, 2012, Satu Mare – Debrecen.

**2012** – Tiberiu Szoke – Nagy, George Pribac, **Septimiu Tripon**, Constantin Crăciun, Corina Roşioru; Ultrastructural modifications in the liver f streptozotocin – induced diabetic rats. . *Bulletin of Romanian Society for Cell Biology*, no. 40., June 2012. The 4 th International Congres and the 30 th annual scientific session of RSCB, June 13 – 17, 2012, Satu Mare – Debrecen

**2012** – Maria Trif, Alina Filip, Constantin Crăciun, Camelia Munteanu, Ioan Uţiu, Tiberiu Szoke – Nagy, Carla Lukaci, **Septimu Tripon**, Corina Roşioru; Biological activities of furil – benzothiazole (R) and (S) enantiomers and racemic in the liver of ethanol – intoxicated rats. . *Bulletin of Romanian Society for Cell Biology*, no. 40., June 2012. The 4 th International Congres and the 30 th annual scientific session of RSCB, June 13 – 17, 2012, Satu Mare – Debrecen.

**2012** – G.C. Corneanu, C. Crăciun, M. Corneanu, C. Lazău, I. Grozescu, **S. Tripon**; The Eukaryote cell interaction with doped TiO2 nanoparticles. *Nanomaterials and nanostructures for varios applications*, edit. Academiei Române, vol. 19/2012, pp. 173 – 192.

**2013** – Mihaela Corneanu, Gabriel C. Corneanu, Constantin Crăciun, **Septimiu Tripon**; Phytoremediatory activity of *Pyrus pyraister* species. *Bulletin of Romanian Society for Cell Biology*, no. 41., June 2013. The 5 th International Congres and the 31 th annual scientific session of RSCB, June 5 – 9, 2013, Timișoara

**2013** - Mihaela Corneanu, Gabriel C. Corneanu, Constantin Crăciun, **Septimiu Tripon**; The exogenous particles of heavy metals and/or radionuclide interaction with celular organeles in *Phragmites australis* (Cav.) Steudel leaf. Sesion for the EGU, General Assembly, 07-12 April 2013, Vienna. European Geosciences Union. SSS4.3. "Soil Pollution and Reclamation: Advances in Data, Experiments and Applications". *Geophysical Research Abstracts*, vol 15., EGU 2013-8952. Katja Ganger, Copernicus Meetings, EGU General Assembly 2013.

**2014** – Corneanu Mihaela, Corneanu Gabriel, Craciun Constantin, **Tripon Septimiu**. Phytoremediation of some heavy metals and radionuclides from polluted area located on the middle Jiu rives. Case study: *Typha Latifolia* L. Muzeul Olteniei Craiova. Oltenia. Studii și comunicări. Științele Naturii. Tom. 30, No. 2/2014, ISSN 1454-6914

**2015** – Mirela Ardelean, Dorina Cachita-Cosma, Aurel Ardelean, **Septimiu Tripon**. Particular changes produced by aphids in wild *Sedum Telephium* SSP. *Maximum L* plants: Morphological and anatoomical aspects. *Romanian Biotechnological Letters* Vol. 20, No. 3, 2015 University of Bucharest.

**2016** – Cristina Mircea , Marcel Parvu, **Septimiu-Cassian Tripon** , Oana Rosca-Casian. Morphological and Ultrastructural Characteristics of *Dumontinia tuberosa* (Bull.) L.M. Kohn from *Ranunculus ficaria* L. *Not Bot Horti Agrobo*, 2016, 44(2):354-360.

**2016** - Kuhn, Thomas, Fodor Enikő Izabella, **Tripon Septimiu**, Fodorpataki László, Fenesi, Annamária Ruprecht Eszter. *Allometric relationships between diaspore morphology and diaspore covering anatomy of herbaceous species from central-eastern Europe*. *Seed Science Research*, 26 (3). pp. 264-272. ISSN 0960-2585

**2016** – Horge Monica, C.Craciun, **S.Tripon**, Giulei Diana, Jopan A., Hermenean Anca, Rosioru Corina; Moderate physical activity improves rat bone ultrastructure in experimental osteoporosis. Acta Endo, Bucuresti, 2016, 12: 392 – 400.

**2016** - Sergiu Gabriel Macavei, Maria Suciu, Izabell Craciunescu, Lucian Barbu, **Septimiu Cassian Tripon**, Radu Balan. Hyperthermia effects on normal and tumor skin cells. Annals of R.S.C.B., Vol. XXI, Issue 1, 2016, pp. 11 – 21,

**2017** -Adela Halmagyi, Ana Coste, **Septimiu Tripon**, Constantin Crăciun. Low temperature induced ultrastructural alterations in tomato (*Lycopersicon esculentum* Mill.) shoot apex cells. Scientia Horticulturae 222 (2017) 22–31, 0304-4238/ © 2017 Elsevier B.V.

**2017** – Sergiu Gabriel Macavei, Maria Suciu, Izabell Craciunescu, Lucian Barbu, **Septimiu Cassian Tripon**, Cristian Leostean, Radu Balan. Spion size dependent effects on normal and cancer cells, Studia Biologia, Issue no.1/2017, published in 30.06.2017

**2017** – Vlad Toma, Alexandru Farcasanu, Alexandra Sevastre Berghian, Lucian Barbu, **Septimiu Tripon**, Bogdan Sevastre, Anca Farcas, Ioana Roman, Simion Simion, Marcel Parvu. Behaviour, MRI features and ultrastructural bases of the autism like-disorder induced in rats by prenataly exposed to sodium valporate. 5 International Conference on Brain Disorders and Therapeutics, Nov. 29 0 30, 2017, Madrid, Spain.

**2018** – A. Cristea, Andreea Baricz, N. Leopold, C.G. Floare, G. Borodi, Irina Kacso, S. Tripon, P.A. Bulzu, A.S. Andrei, Cadar Oana, Erica Andreea Levei, H.L. Banciu; Polyhydroxybutyrate production by an extremely halotolerant *Halomonas elongata* strain isolated from the hypersaline meromictic Fără Fund Lake (Transylvanian Basin, Romania), Journal of Applied Microbiology, August 14, 2018.

## Research grants:

- Nanostructures and noble metal nanoparticles with plasmonic multifunctional properties relevant for applications in nanophotonics, biodetection and laser spectroscopy-NANOBIOSPEC. Grant No. CEEEX 71V/2006, 2006-2008, 500 billion RON., a partner at the UBB's Faculty of Physics (Prof. Dr. Astilean Simion) – membership grant (partner).
- Contributions to and use of certain materials characterisation of nano-structured, the direct electrochemical degradation or/and photoassisted of contaminant-NANELPOL. Grant No. CEEEX 68V/2006, 2006-2008, 1, 5 billion RON, a partner at the Faculty of Chemistry of the UBB (Associate Prof. Dr. Jitaru Maria). – membership grant (partner).
- Magnetic Nanoparticles "core shell" structure coated with metal and polymer conductors – synthesis, characterization and applications-NANOMAGMETNOB. Grant No. CEEEX 59V/2006, 2006-2008, worth 1.5 billion RON, signed with INCDTIM, Cluj Napoca - membership grant (partner).
- Network Computing Platform for the integration of Romania in the European NANOElectronics (ENIAC),- RTN-NANOEL. Grant No. CEEEX 75/2006, 2006-2008, worth 500 billion RON, signed with the IMT. - membership grant (partner)
- Getting some whole plant extracts with high bioavailability and fractionate and potential adjuvants for species of animal production-ADEXPLANT. Grant No. CEEEX 99/2006, 2006-2008, 5,360 billion RON, worth finished with USAMV Cluj-Napoca - membership grant (partner).
- Setting action and the effects of stress protectors and/or immunostimulators of new biological active material-IMMUNO-NANOMAT-Electrochemistry and INCD, Subject for capacitors, Timisoara, 80,000 RON, the period 2007–2011 - membership grant PNII (partner) nr 70/2007.
- Biocompatible nano systems based on magnetic nanoparticles and polymers in response to external stimuli – NANOMAGPOLI – INCD for Isotopic and Molecular Technologies, Cluj-Napoca, 120,000 RON, the period 2007–2011. - membership grant No. PNII 71-068/2007.
- Configuration of ferromagnets and ordered nanoparticles – ODONANOMAG-supermagnetic, INCDTIM Cluj-Napoca, 120,000 RON, period 2007-2010. – membership grant PN II nr. 71-119V/2007 (partner)
- Micro and nano-structured materials oxide with controlled chromatic luminescence for lighting-MAMINAL-Inst. Research Chemical "Raluca Ripan", Cluj-Napoca, 100,000 RON, period 2007-2010 – membership grant PN II nr. 71-122V/2007 (partner).
- Assessment of the effects of pollution and climate change on biodiversity and socio-economic well-being of the population in the middle basin of the JIU Valley – POLMEDJIU – University of Craiova, 120,000 RON, the period 2008-2011 – membership grant No. PNII 32-150V/2008 (partner).
- Hepatoprotector nanoparticles with increased bioavailability -Nano-HEPAT-University "Vasile Goldis" Arad, 80,000 RON, the period 2008-2011- membership grant No. PNII 62-072V/2008 (partner)
- Electrocatalytic reactions to a major pollutant, CO<sub>2</sub>, useful in organic matter: the fundamental and applicative contributions – CO<sub>2</sub> –, ELCAT-associate Jitaru, Maria, 30,000 RON, Chemistry – membership grant No. PNII 32-114/2008 (partner).
- Markers of oxidative stress, nitro and nitrate diagnosis and forecast value in parodontitis and periimplantitis, 15,000 RON - partner grant ideas, member.

