

## Departments and teaching-staff for international students

2009/10

### Lehrstühle und Lehrkörper für die internationalen Studiengänge

Bei der Auflistung der Lehrstühle ist nach dem Namen der Sie deutsch unterrichtenden Hochschullehrer ein **G (für German)** angegeben.

Die email-Adressen sind zumeist entsprechend folgender Formel angegeben:  
**Familienname.Vorname@aotk.szie.hu**

Dementsprechend erreichen Sie z.B. den Direktor der Internationalen Studiengänge, Professor **Ferenc HAJÓS** unter **hajos.ferenc@aotk.szie.hu**.

*aotk* für Állatorvos-tudományi Kar = Veterinärmedizinische Fakultät  
*szie* für Szent István Egyetem = Szent István Universität

Das **Studentensekretariat** ist unter der zentralen Adresse **student@univet.hu** zu erreichen.

Sollten Sie einen unserer Lehrkräfte nicht erreichen, so wenden Sie sich bitte entweder an die entsprechende Sekretärin, oder informieren sich auf der home page der Lehrstuhls.

For the departments teaching students of semesters 1 - 4 "**G and/or E**" is the abbreviation for **German**-program and **English**-program, respectively.

The **e-mail addresses** indicate the **surname.firstname@aotk.szie.hu**  
You will reach i.e. the director of International Study Programs, Professor **Ferenc HAJÓS** accordingly at **hajos.ferenc@aotk.szie.hu**

*aotk* for Állatorvos-tudományi Kar = Faculty of Veterinary Science  
*szie* for Szent István Egyetem = Szent István University

The **Secretariat** of International Study Programs can be contacted via the central address **student@univet.hu**

Should you have difficulties in reaching any of our staff members please contact the secretary of the relevant department or the department's home page at [www.univet.hu](http://www.univet.hu).

## ❖ Department and Clinic of Internal Medicine

Location: campus, building A, 1st floor

Phone: (+36 1) 478 4132

Fax: (+36 1) 478 4137

Secretary: busku.agnes@aotk.szie.hu

Head-of-Department: Mr Károly VÖRÖS, DVM, Ph.D., D.Sc., Professor

### Teaching-staff for international students:

Mr Tibor GAÁL, DVM, Ph.D., Professor

Mr Károly VÖRÖS, DVM, Ph.D., D.Sc., Professor

Ms Ágnes STERCZER, DVM, Ph.D., Associate professor

Mr Ferenc MANCZUR, DVM, Associate professor

Mr Péter VAJDOVICH, DVM, Associate professor

Ms Éva BALOGH, DVM, Lecturer

Mr Zoltán DUDÁS-GYÖRKI, DVM

Ms Kinga PÁPA, DVM, Lecturer

Ms Márta PÉTSCH, Lecturer

Ms Noémi TARPATAKI, DVM, Lecturer

Ms Zsuzsanna VIZI, Lecturer

Mr Csaba HETYEY, DVM, Lecturer

Mr Ákos MÁTHÉ, DVM, Lecturer

Mr Péter PAZÁR, DVM, Lecturer

Mr Zoltán SZABÓ, DVM, Lecturer

Mr Tamás ABONYI, DVM, invited lecturer

Ms Mónika KERESZTES, DVM, invited lecturer

Ms Krisztina KUNGL, DVM, Ph.D., invited lecturer

Mr Roland PSÁDER, DVM Ph.D.-student

### subjects:

Veterinary pathophysiology, Veterinary clinical diagnostics, Internal medicine, Avian and exotic animal diseases (including diseases of pet rodents, diseases of reptiles)

### Research activity of the department

#### *Pathophysiological research*

The role of the antioxidant system in the development of metabolic diseases and their laboratory diagnosis. In the frame of this research, mainly metabolic disorders of ruminants and the diagnostic laboratory methods are studied. In developing chick embryo and newborn calves characteristic changes in the development of the antioxidant mechanisms are also studied. Antioxidant parameters are investigated in adult ruminants, as well.

#### *Clinical research*

This research field includes the following subjects: pathogenesis and diagnostics of liver and pancreatic diseases, cardiology of small animals, ultrasonographic and endoscopic diagnosis of internal diseases in dogs, cats and horses, as well as pet animal diseases.

## ❖ Department and Clinic of Obstetrics and Reproduction

Location: campus, building L+N

Phone: (36-1) 478-4206

Fax: (36-1) 478-4207

Secretary: tookos.emese@aotk.szie.hu

Head-of-Department: Mr László SOLTI, DVM, Ph.D., D.Sc., member of the Hungarian Academy of Science, Professor

### **Teaching-staff for international students:**

Mr Gyula HUSZENICZA, DVM, Ph.D. D.Sc., Professor

Mr László SOLTI, DVM, Ph.D., D.Sc., member of the Hungarian Academy of Science, Professor

Mr Sándor CSEH, DVM, Ph.D. D.Sc., Professor

Ms Julianna THURÓCZY, DVM, Ph.D., Senior lecturer

Ms Margit KULCSÁR, DVM, Ph.D., senior researcher

Ms Vera FAIGL DVM, clinician

Ms Eszter KOLLÁR DVM, clinician

Ms Linda MÜLLER DVM, clinician

Ms Anikó TIBOLD, DVM, clinician

### **Subjects:**

Veterinary obstetrics and reproduction

### **Research activity of the department**

Basically divided into 3 sections:

*Prof. Solti, Prof. Cseh and their group:* Reproductive biotechnology including embryo transfer and related subjects (superovulation, splitting of embryos, cryopreservation, cloning by nuclear transfer, microinjection of early embryos etc.). Determination of hormones and some mycotoxins by ELISA, development of rapid on-farm immunoassays.

*Prof. Szenci and his group:* Embryonic mortality, reproductive ultrasonography in cattle, calcium-metabolism in the peripartal period and uterine involution in cattle, respiration physiology of the new-born calf.

*Prof. Huszenicza and his group:* Endocrinology of reproduction, ovarian activity and reproductive disorders in domestic animals, pancreatic, adrenocortical and thyroid malfunctions.

## ❖ Department and Clinic of Surgery and Ophthalmology

Location: campus, building B

Phone: (36-1) 478-4195

Fax: (36-1) 478-4196

Secretary: toth.gyorgyi@aotk.szie.hu

Head-of-Department: Mr Tibor NÉMETH, DVM, Ph.D., Cert.SACS, Associate professor

### Teaching-staff for international students:

Mr Zoltán DIÓSZEGI, DVM, Senior lecturer

Mr Zsolt SZENTGÁLI, DVM, Senior lecturer

Mr Attila ARANY-TÓTH, DVM, Lecturer

Mr Péter CSÉBI, DVM, Lecturer

Mr Miklós P. DUNAY, DVM, Lecturer

Mr Tamás IIPOLYI, DVM, Assistant prof.

Mr Péter MOLNÁR, DVM, Ph.D.-student, Assistant prof.

### subjects:

Veterinary Radiology, Anaesthesiology, Surgical Diagnostics, General and Detailed  
Veterinary Surgery, Veterinary Ophthalmology

### Research activity of the department

Computer tomography - CT of the skull

Large animal joint surgery - cartilage autografting

Large animal anesthesiology - acid-base changes during anesthesia

Large animal endoscopy: thoracoscopy and laparoscopy

Small animal soft tissue surgery - vascular grafting

Small animal orthopedics - total hip replacement; joint cartilage autografting, arthroscopy

## ❖ **Clinic for Large Animals**

Location: Üllő, Dóra major, field station (ca. 10 km from the boundary of Budapest)

Phone: (36)-29-521-300, or 29-521-399

Fax: (36)-29-521-303

Secretary: [dufek.ildiko@aotk.szie.hu](mailto:dufek.ildiko@aotk.szie.hu)

Head-of-Unit: Mr Ottó SZENCI, DVM, Ph.D., D.Sc., Professor

Teaching staff for international students:

### **Internal medicine**

Ms Orsolya KUTASI, DVM, Clinician

Ms Luca Gabriella PAÁR, DVM, Clinician

### **Obstetrics and Reproduction**

Mr Ottó SZENCI, DVM, Ph.D., D.Sc., Professor

Mr Árpád Csaba BAJCSY, DVM, Ph.D., Senior research fellow

Mr András HORVÁTH, DVM, Junior research fellow

Mr Gergely SASSI, DVM, Clinician

Mr Zoltán SZELÉNYI, DVM, Clinician

### **Surgery**

Mr Gábor BODÓ, DVM, Ph.D., Associate professor

Ms Zita MAKRA, DVM, Junior research fellow

Ms Kata Orsolya VERES, DVM, Clinician

Mr Simon IZING, DVM, Clinician

Mr Ferenc SZABÓ, DVM, Clinician

### **Pathology**

Mr Imre BIKSI, DVM, Assistant professor

Ms Beáta MOLNÁR, DVM, Clinician

Subjects: Internal medicine, Obstetrics and Reproduction, Surgery and Pathology for Large Animals

Research activity of the unit

*Internal medicine:* Equine cardiorespiratory diagnostics

*Obstetrics and reproduction:* Diagnosis of early pregnancy and embryonic mortality, veterinary neonatology, periparturient metabolic disorders, uterine contractility after parturition.

*Surgery:* Autogenous osteochondral transplantation with the mosaicplasty method. Joint resurfacement. Equine laparoscopy.

*Pathology:* Urogenital diseases in the sow, swine dysentery.

## ❖ Department of Anatomy and Histology

Location: campus, building E

Phone: (36-1) 478-4225

Fax: (36-1) 4784224

Secretary: titk.anatomia@aotk.szie.hu

Head-of-Department: Mr Péter SÓTONYI, DVM, Ph.D., Professor

### Teaching-staff for international students:

Ms Katalin HALASY, M.Sc., Ph.D, D.Sc., Professor (E)

Mr Ferenc HAJÓS, M.D., Ph.D., D.Sc., Professor (G+E)

Mr Péter SÓTONYI, DVM, Ph.D., Professor (G)

Ms Vera JANCSIK, M.Sc., Ph.D., Senior research fellow (G+E)

Mr Balázs GERICS, DVM, Ph.D., Associate professor (G+E)

Mr Ferenc SZALAY, DVM, Ph.D., Associate professor (E)

Mr Tibor FÁNCSI, DVM, Senior lecturer (G)

Mr Bence RÁCZ, M.Sc., Ph.D., Research fellow (G)

Mr Gábor LORÁSZKÓ, DVM, invited lecturer (G)

### subjects:

Veterinary anatomy, Veterinary histology, Biology

### Research activity of the department

*Neurobiology:* Immunohistochemical study of neuropeptide-containing neurons in the central nervous system; Response of neuroglia to hormonal and noxious stimuli

*Developmental biology:* Normal and pathological development of the dog heart

*Macroscopic anatomy:* Surgical exploratory anatomy of the dog; Application of modern imaging techniques in veterinary anatomy: CT and MRI imaging of the dog, swine, sheep and horse; Avian anatomy

Development of multimedia courseware in anatomy and histology

## ❖ Institute of Animal Breeding, Nutrition and Laboratory Animal Science

Location: campus, building J 3rd floor and Rottenbitter u. 50.

Phone: (36-1) 478-4119

Fax: (36-1) 478-4128

Secretary: szollosi.krisztina@aotk.szie.hu

Head-of-Institute: Mr István HULLÁR, M.Sc., Ph.D., Associate professor

### Teaching-staff for international students:

Mr Sándor FEKETE, DVM, Ph.D., D.Sc., Professor

Mr József SZABÓ, DVM, Ph.D., D.Sc., Professor

Mr László ZÖLDÁG, DVM, Ph.D., D.Sc., Professor

Mr András GÁSPÁRDY, M.Sc., Ph.D., Associate professor

Mr István HULLÁR, M.Sc., Ph.D., Associate professor

Ms Éva CENKVÁRI, M.Sc., Ph.D., Senior research fellow

Ms Hedvig FÉBEL, DVM, Ph.D., Private professor

Mr András BERSÉNYI, DVM, Ph.D., Research fellow

Mr Csaba PRIBENSZKY, DVM, Ph.D., Research fellow

Mr Ákos MARÓTI-AGÓTS, DVM, Lecturer

Mr Gyula VERESS, M.Sc., Lecturer

### subjects:

Veterinary genetics, Animal breeding; Animal nutrition and dietetics

### Research activity of the institute

Research in preserving of indigenous domestic species and rare breeds; puberty and nutrition in rabbit; hereditary diseases and their genetic prevention; genetic identification of some domestic animals (cattle, dog). Obesity; body composition, feed additives, nutraceuticals, feeding and dietetics of rabbits, companion animals (dogs, cats), pets and horses.

## ❖ Department of Animal Hygiene, Herd Health and Veterinary Ethology

Location: campus, building J, 2nd floor

Phone: (36-1) 478-4242

Fax: (36-1) 478-4243

Secretary: arki.imrene@aotk.szie.hu

Head-of-Department: Mr Endre BRYDL, DVM, Ph.D., C.Sc., Dip. ECBHM, Professor

### Teaching-staff for international students:

Mr Endre BRYDL, DVM, Ph.D., C.Sc., Professor

Mr Pál RAFAI, DVM, Ph.D., D.Sc., Professor

Mr László KÖNYVES, DVM, Research fellow

Mr Viktor JURKOVICH, DVM

Mr Péter KOVÁCS, DVM

Ms Erika LÁSZLÓ, M.SC.

Mr János LEHOCZKY, DVM, titular AssociateProfessor

Mr Gyula NAGY, DVM, titular AssociateProfessor

### subjects:

Animal Hygiene, Herd Health of Cattle, Pig and Poultry, Veterinary Applied Ethology, Cattle Herd Health Practicl Work

Prerequisite of acceptance of the subject is to take part at the Cattle Herd Health practical work (farm visit).

### Research activity of the department

Research in

- Herd health programs for cattle and swine farms,
- Prevention of metabolic disorders caused by malnutrition in dairy cows
- Beef cattle production and reproducton
- Effect of different feed additives in health and production of farm animals
- Hoof disease of dairy cattle
- Mastitis if dairy cows
- Mycotoxins
- Environmental physiology of farm animals
- Slaughterhouse monitoring
- Chronic respiratory diseases of pigs

## ❖ Department of Biomathematics and Informatics

Location: campus, building L and N, 3rd floor

Phone: (36-1) 478-4213

Fax: (36-1) 478-4217

Secretary: szabo.gabriella@aotk.szie.hu

Head-of-Department: Mr Jenő REICZIGEL, Ph.D., Associate professor

### Teaching-staff for international students:

Mr Zsolt ABONYI-TÓTH, Ph.D.-student (E)

Mr László BÖRZSÖNYI, Ph.D, Senior research fellow (G)

Ms Szilvia KÖVÉR, Ph.D.

Mr Zsolt LANG, research fellow (E)

Ms Krisztina NAGY, M.Sc., Ph.D.-student

Mr Jenő REICZIGEL, Ph.D., Associate professor (G)

### subjects:

Biomathematics, Informatics

### Research activity of the department

Staff members are active in the following fields applied statistics, dynamical and statistical analysis of agricultural systems, fuzzy logic and its applications, modelling biological and social systems, preference modelling

## ❖ Department of Botany

Address: 1077 Budapest, Rottenbiller u. 50.

Phone and fax: (36-1) 478-4238

Secretary: kiss.zsuzsanna@aotk.szie.hu

Head-of-Department: Mr János VETTER, M.Sc., Ph.D., D.Sc., Professor

### Teaching-staff for international students:

Mr János VETTER, M.Sc., Ph.D., D.Sc, Professor (G+E)

Ms Irén SILLER-TURCSÁNYI, DVM, Ph.D., Lecturer (G)

Mr Dániel CSERHALMI, M.Sc., Lecturer (E)

### subjects:

Veterinary botany

### Research activity of the department

The study of poisonous plants mainly of their active principles is a classic part of our research activity. Among the investigated materials were haemolytic saponins, phytoestrogens, some minerals (Zn, Pb, Sr) and other non-minerals elements (Se) as well as some alkaloids (from *Lupinus* species) or inorganic ions (NO<sub>3</sub>). Some mycological questions belong to the second main aspect of our investigations, such as the biotransformation of plant lignocelluloses, the poisonous mineral elements of the higher fungi, etc.

## ❖ Department of Chemistry

Location: campus, building C

Phone: (36-1) 478-4176

Fax: (36-1) 478-4268

Secretary: stiban.katalin@aotk.szie.hu

Head-of-Department: Mr Péter NEMES, M.Sc., Ph.D., Professor

### Teaching-staff for international students:

#### *Chemistry*

Mr Péter NEMES, M.Sc., Ph.D., Professor (G+E)

Mr Pál SCHEIBER, M.Sc., Ph.D., Professor (G+E)

Mr Tamás Róbert VARGA M.Sc., Ph.D., Senior lecturer (E)

Mr Zoltán VINCZE, M.Sc., Ph.D. Senior lecturer (G+E)

Mr Mihály Viktor PILIPECZ, M.Sc., Research fellow (E)

#### *Biophysics*

Mr Zoltán SZŐKEFALVI-NAGY, M.Sc., Ph.D., D.Sc., Professor (E)

Mr Imre KOVÁCS, M.Sc., Ph.D., Senior research fellow (E)

Mr Imre Ferenc BARNA, M.Sc., Ph.D., Senior research fellow (G)

Mr László BERKES, M.Sc. (G)

Mr Attila BÉRCES, M.Sc., Ph.D. (G)

Mr László SMELLER, M.Sc. (G)

Mr Gergely VADÁSZ, M.Sc. (G)

#### subjects:

Chemistry, Biophysics, General Radiology (G)

#### Research activity of the department

The research projects are directed to organic syntheses in the area of nitrogen containing heterocycles, alkaloids and other natural products. Some works are carried out in contract research with the pharmaceutical industry in order to synthesize biologically active new compounds. The structure elucidation and stereochemistry of synthesized molecules are achieved by application of modern spectroscopic methods.

## ❖ Department of Food Hygiene

Location: campus, building L and N, 2nd floor

Phone: (36-1) 478-4150

Fax: (36-1) 478-4155

Secretary: debreceni.timea@aotk.szie.hu

Head-of-Department: Mr Péter LACZAY, DVM, Ph.D, Professor.

### Teaching-staff for international students:

Mr Péter LACZAY, DVM, Ph.D., Professor

Mr Géza SZITA, DVM, Ph.D., Associate professor

Mr Olivér REICHART, M.Sc., Ph.D., Associate professor

Mr Péter SZÉKELY KÖRMÖCZY, DVM, Ph.D., Senior research fellow

Ms Orsolya ERDÖSI, DVM, Research fellow

Mr István SZATMÁRI, DVM, Ph.D.-student

### subjects:

Food hygiene

### Research activity of the department

Systematic development of the synthetic media/broths for microbiological food control purposes; Instrumental methods for microbiological detection and rapid/real-time methods for hygienic control; Epidemiological surveillance of zoonotic agents transmitted via foods; Development of food-safety related analytical-toxicological methods for residues. Experimental microbiology and the related residue-control for mastitis-eradication; Red and poultry meat quality control; Development of food-technologies related food-safety schemes (SSOP, HACCP); Food-safety related home legislations and simultaneous follow-up of the related EU- and USDA/FSIS-legislations. International contribution to the elaboration of FAO/WHO Codex Alimentarius Commission (CAC) and JECFA related food-safety proposals.

## ❖ Department of Microbiology and Infectious Diseases

Address: 1143 Budapest, Hungária krt. 23-25.

Phone: (+36 1) 251-9900, 478-4100/ext. 8090 and 8091

Fax: (+36 1) 251 9260

Secretary: cseh.erika@aotk.szie.hu

Head-of-Department: Mr László FODOR, DVM, Ph.D., Professor

### Teaching-staff for international students:

Mr László FODOR, DVM, Ph.D., Professor

Mr János VARGA, DVM, Ph.D., D.Sc., Member of the Hun. Academy of Sci., Professor

Mr Tamás BAKONYI, DVM, Ph.D., Associate professor

Mr László MAKRAI, DVM, Ph.D., Senior lecturer

Mr Tamás TUBOLY, DVM, Ph.D., Associate professor

Mr Ákos HORNYÁK, DVM, Ph.D., Veterinarian

Ms Petra FORGÁCH, DVM, Research officer

Mr Attila CSÁGOLA, DVM, Research officer

Ms. Márta LŐRINCZ, DVM Research officer

Ms Katalin JÁNOSI, DVM, Ph.D., Research officer

Mr. Miklós GYURANECZ, DVM, PhD-student

### **subjects:**

Microbiology, Infectious diseases

### **Research activity of the department**

Research activity of the department is focused on several bacterium genera (Actinobacillus, Campylobacter, Escherichia, Francisella, Haemophilus, Mannheimia, Pasteurella, Rhodococcus), virus families (Adenoviridae, Arteriviridae, Bunyaviridae, Circoviridae, Coronaviridae, Flaviviridae, Herpesviridae, Paramyxoviridae, Reoviridae) together with the diseases they cause in farm animals and pet animals with special regards to the zoonotic agents. Research on the immune reactions of farm animals help the understanding the pathogenicity, prevention and the host-parasite relationship, development of new vaccines promote prevention and control of the infectious diseases.

## ❖ Department of Parasitology and Zoology

Location: campus, building A – first floor

Phone: (36-1) 478-4190

Fax: (36-1) 478-4193

Secretary: balazs.istvanne@aotk.szie.hu

Head-of-Department: Mr Róbert FARKAS, DVM, Ph.D., Professor

### **Teaching-staff for international students:**

Mr Róbert FARKAS, DVM, Ph.D., Professor (E)

Mr Sándor HORNOK, DVM, Ph.D., Associate professor (E)

Ms Éva FOK, DVM, Ph.D., Senior Research fellow (E)

Mr Gábor MAJOROS, DVM, Ph.D., Research fellow (E)

Mr Gábor FÖLDVÁRI, M.Sc., Ph.D., Assistant professor (G, E)

Mr Balázs TÁNCZOS, MSc., PhD.-student (G)

### **subjects:**

Zoology, Veterinary Parasitology, Bee diseases

### **Research activities of the department**

Seroepidemiology of infections with protozoa of veterinary importance. Vectors and vector-borne diseases of domesticated animals. Epidemiology of tick-borne pathogens. Traumatic myiasis. Development of protostrongylid larvae in the intermediate host. Nematode infections of livestock and companion animals.

## ❖ Department of Pathology and Veterinary Forensic Medicine

Location: campus, building E

Phone: (36-1) 478-4178

Fax: (36-1) 478-4178

Secretary: terenyi.anna@aotk.szie.hu

Head-of-Department: Mr Miklós RUSVAI, DVM, Ph.D., Professor

### Teaching-staff for international students:

Mr Miklós RUSVAI, DVM, Ph.D., Professor

Mr Ferenc BASKA, DVM, Ph.D., Associate professor

Mr Imre BIKSI, DVM, Lecturer

Ms Mira MÁNDOKI, DVM, Ph.D., Lecturer

Mr János GÁL, DVM, Ph.D., Lecturer

Mr Csaba JAKAB, DVM, Ph.D.-student, Clinician

Mr Gyula BALKA, DVM, Clinician

Mr Zoltán DEMETER, DVM, Clinician

Ms Alina PALADE, DVM, Clinician

Ms Zsófia BENYEDA, DVM, Ph.D.-student

Ms Alina PALADE, DVM, Ph.D.-student, Clinician

Mr Emőd KORZENSZKY, DVM, invited lecturer (G)

### subjects:

Veterinary Pathology, Veterinary Forensic Medicine, Fish Hygiene and Fish Diseases,  
History of Veterinary Medicine

### Research activity of the department

Patho- and morphogenesis of infectious and non-infectious diseases of poultry, swine, rabbits,  
viral respiratory diseases of ruminants and horse, viral infections of honey bees

## ❖ Department of Pharmacology and Toxicology

Location: campus, buildings R and S

Phone: (36-1) 478-4160

Fax: (36-1) 478-4172

Secretary: hrtyan.palne@aotk.szie.hu

Head-of-Department: Mr Péter GÁLFI, DVM, Ph.D., D.Sc., Professor

Teaching-staff for international students:

Mr Péter GÁLFI, DVM, Ph.D., D.Sc., Professor

Mr József LEHEL, DVM, Ph.D., Associate Professor

Mr György CSIKÓ, DVM, Ph.D., Senior lecturer

Ms Edina CSIBRIK-NÉMETH, biologist, PhD.

Ms Krisztina SZEKÉR, microbiologist, Ph.D.

Mr Zsolt PERÉNYI, DVM, Ph.D.

Mr Gábor NAGY, Chemical Engineer, Researcher

Mr Ákos JERZSELE, DVM, Ph.D.

Ms Rita CSIZINSZKY, biologist

Mr Csaba KŐVÁGÓ, DVM

Mr Gábor ANDÓCS, DVM

subjects:

Veterinary pharmacology, Veterinary toxicology

Research activity of the department

The research program is mainly concerned with the applied veterinary pharmacology and toxicology and it includes the following areas- Molecular biology, molecular aspects of pharmacology

- Alternative tools to replace antibiotics, research with pre – and probiotic agents
- Pharmacokinetic and drug metabolism investigations in vivo and in vitro involving primarily isolated cell cultures
- Target animal safety and efficacy of new drug formulations
- Acute and subacute toxicological studies of chemicals in laboratory animals and in vitro involving cell cultures.
- Some basic aspects of the discipline are also part of the research program, such as emergence and spread of bacterial resistance.

In its scientific research, the department cooperates with research groups from other nations (Austria, Spain, Germany, Slovakia) and participates in different national and international programs.

Incorporation of students into the research forms an integral part of the teaching policy of the department. This aim is realized partly through the organization of diploma work.

## ❖ Department of Physiology and Biochemistry

Location: campus, building C

Phone: (36-1) 478-4163

Fax: (36-1) 478-4165

Secretary: szajbertne.nagy.krisztina@aotk.szie.hu

Head-of-Department: Mr László V. FRENYÓ, DVM, Ph.D., Professor

### Teaching-staff for international students:

#### Physiology

Mr László V. FRENYÓ, DVM, Ph.D., Professor (E)

Mr Tibor BARTHA, DVM, Ph.D., D.Sc., Professor (E)

Ms Klára OPPEL, DVM, Ph.D., Associate professor (G)

Mr Attila ZSARNOVSZKY, DVM, Ph.D., lecturer (E)

Mr Peter SYMMONS, M.Sc., Ph.D., invited lecturer (G)

Ms Krisztina HORVÁTH, M.Sc., Ph.D. (E)

Ms Andrea GYÓRFFY, DVM, Ph.D.-student (E)

Mr Dávid KISS, M.Sc., Ph.D.-student (G)

Mr Miklós RUFFY, DVM, invited lecturer (G)

Ms Virág SOMOGYI, M.Sc., Ph.D.-student (E)

#### Biochemistry

Mr Ferenc KUTAS, DVM, Ph.D., D.Sc, Emeritus professor (G)

Ms Zsuzsanna NEOGRÁDY, DVM, Ph.D., Associate professor (G+E)

Mr Tamás VERESEGYHÁZY, DVM, Ph.D., Associate professor (G+E)

Ms Ágnes L. RIMANÓCZY, M.Sc., Research fellow (E)

Mr Zoltán DAKÓ, DVM, Research associate (E)

Mr Gábor MÁTIS, teaching assistant (E)

Ms Stefanie MITZE, teaching assistant (G)

Ms Éva VONZA, DVM (G)

### subjects:

Veterinary physiology, Veterinary biochemistry

### Research activity of the department

The main fields include the following: Neuroendocrinological and neuromorphological investigation of hypothalamus energy metabolism. Regulatory processes in the handling of thyroid hormones by non-thyroidal tissues; interrelationships of thyroid hormones with other endocrine and immune signaling systems; investigation of the concentration of sexual steroids in birds; immunoendocrinological interactions, particularly focused on the immunomodulatory effect of prolactin; cellular mechanism of immunoglobulin transport; molecular biology and amyloid research, the study of the keratinization and certain transport processes in the rumen epithelial cell culture; the hormonal control of cell growth; regulation of apoptosis and necrosis; IL-6 secretion following LPS stimulation in cell culture. In its scientific research, the department cooperates with research groups from other nations (USA, UK, Germany, Belgium, Sweden, Austria) and participates in different national and international programs which are set up usually by the Hungarian Academy of Sciences or the European Community.

## ❖ Department of State Veterinary Medicine and Agricultural Economics

Location: campus, building L, 3rd floor

Phone: (36-1) 478-4185

Fax: (36-1) 478-4186

Secretary: [zolnai.ferencne@aotk.szie.hu](mailto:zolnai.ferencne@aotk.szie.hu)

Head-of-Department: Mr László VISNYEI, Ph.D., Associate professor

### Teaching-staff for internal students:

Mr Oszkár BÍRÓ, DVM, economist, Ph.D., Associate professor

Ms Kinga FODOR, Ph.D., Lecturer

Mr László ÓZSVÁRI, DVM, economist, Ph.D., Invited lecturer

Mr Csaba CSINTALAN, DVM, Lecturer

### Subjects:

State Veterinary Medicine, Agricultural and Animal Health Economics, Forensic Veterinary Medicine

### Research activity of the department

The veterinarian's liability for damages; Economic aspects of the welfare of farm animals; Non-specific protection against infectious animal diseases; Legal and ethical aspects of non-conventional veterinary therapies; Animal health economics; The role of agriculture in economic growth; The economy of sustainable development of agriculture; The economy of modern animal health