Editorial by the Secretary

Dear ESVCN member,

The best wishes for this ‘just started’ year of 2020! New challenges and new opportunities will come along this new year. Thus, may this newsletter serve to foster the circulation of information to stay up to date and represent a point of contact among all members, from different countries of the world! In this issue, you can find contributions from pioneer members who are keen to provide our readership with tips on animal nutrition and related aspects, but still you are all invited to propose and contribute actively to the development of our Newsletter!

Enjoy your reading!

Kind regards,
Maria Grazia Cappa

In this Issue

OPENING MESSAGE FROM OUR NEW PRESIDENT ................................................................. 1
BOARD MEMBER ELECTIONS 2019 ............................................................................. 3
MESSAGE FROM THE NEW VICE-PRESIDENT: .......................................................... 4
SKETCHES FROM ESVCN 2019 IN TURIN .................................................................. 5
FOCUS ON THE HELMUT MEYER AWARD ................................................................. 6
AWARD WINNERS ESVCN 2019 .................................................................................... 7
ESVCN IN DEPTH PORTRAIT: PROF. JOSEF KAMPHUES ........................................... 8
INVITATION TO ESVCN 2020 ....................................................................................... 10
ESVCN SOCIETY BUSINESS ......................................................................................... 12
PORTRAIT OF THE CENTRE OF ANIMAL NUTRITION OF THE UNIVERSITY OF UTRECHT 14
Opening Message from our New President

Britta Dobenecker, University of Munich

As the newly appointed president of the ESVCN it is my foremost interest to serve the main objectives of the society which are to:

- generate interest,
- stimulate research,
- disseminate knowledge in veterinary nutrition, comparative nutrition and nutrition-related diseases,
- promote pre- and post-graduate education in veterinary and comparative nutrition
- stimulate the application of clinical nutrition in veterinary schools by cooperation between nutritionists and clinicians,
- and to cooperate with other societies with related interests.

Beside this, I see a necessity for us to promote the image of our specialty in the field of veterinary medicine, agriculture and even human nutrition and medicine.

With the growing interest in our work, which is also highlighted by the increasing numbers of delegates to our annual congress from all over the world, we should seek to further increase the size of our society and to increase the visibility of our research work. One way to achieve this might be to raise financial means from high-ranking funds (e.g. the EU) by forming research collaborations. Time and money is necessary to compile an application for such grants, which would be a hallmark for the whole society when successful. To support this process for promising projects, we will grant a fixed amount of money for professional editing, face to face meetings, pilot studies etc. after an internal review process. For this purpose as well as for reviewing submitted case reports from our residents etc., an internal board of reviewers will be established.

I hope that all Society members are happy to contribute to this for the benefit of achieving our ESVCN aims. Finally, I would like to extend my special thanks to the ‘outgoing’ President, Pat Harris, for her dedicated leadership of ESVCN over the past 3 years.

Britta Dobenecker

Pat Harris and Britta Dobenecker
Outgoing and Incoming Presidents
Board member elections 2019
by Maria Grazia Cappai

During the last Annual General Meeting of members of the ESVCN in Turin, the positions of the Vice-President, Secretary and Treasurer were up for election. The Board proposed Prof. Aulus Carciofi, from Brazil, for the vacant position of Vice-President. Prof. Carciofi has been an active member of ESVCN for many years and is particularly involved with supporting Interns studying towards their Diplomate status with ECVCN. All present members voted in favour of Prof. Aulus Carciofi, who accepted the position. Both the incumbent Secretary and the Treasurer of the Board confirmed their availability to continue their positions for the following three years. All members voted in favour.

The ESVCN Board 2019-2023 is:
President: Dr. Britta Dobenecker, University of Munich, Germany.
Vice-President: Prof. Aulus Carciofi. University of Sao Paulo, Brazil.
Secretary: Prof. Maria Grazia Cappai, University of Sassari, Italy.
Treasurer: Dr. Ronald Jan Corbee, University of Utrecht, Holland.
Past President: Dr. Patricia Harris, WALTHAM Petcare Science institute, UK.

The whole Board thanks all ESVCN members.

We said ‘Auf Wiedersehen - Tot ziens’ but not good-bye to our previous President and then Past President, Dr Geert Janssens. Thank You for all your hard work!!

The official ‘new Vice-President’ Photo Shoot.

Local Congress Organisers Handover from Joana Nery to Ana Laurenço

The President tells the new LOC Chair to run and get ready for ESVCN 2020

Our Secretary and Treasurer reconfirmed
Message from the new Vice-President:

Aulus Carciofi

It was a great joy and honour to be invited to stand for Vice-president of ESVCN, a chance that I owe to Britta Dobenecker, who nominated me, giving me the opportunity to give back a little to the Society, from which I have already gained so much!

My first ESVCN was Nantes 2006, many years ago, where I was surprised by the quality of the presentations and scientific abstracts, discovering a valuable resource for my professional and personal growth. And I “clung” to ESVCN ever since, bringing students and encouraging other Brazilians to come, to expose what we do and to take advantage of the opportunities for knowledge exchange, friendship and the growth that the participation of the ESVCN annual meeting represents. Therefore, receiving the opportunity to work with the Board and contribute to the growth of ESVCN, is something that makes me very happy.

Let me introduce myself a little more: I graduated as a Veterinarian in 1991, achieved my MSc in 1996 and a PhD in 2000. I currently work at the Department of Veterinary Clinic and Surgery, School of Agrarian and Veterinarian Sciences of UNESP, campus of Jaboticabal, São Paulo, Brazil, where I teach Nutrition and Feed Processing, and Clinical Nutrition of dogs and cats. We supervise a Clinical Nutrition service at our teaching veterinary hospital and currently have three interns. I am also the manager of the Laboratory of Research on Nutrition and Nutritional Diseases of Dogs and Cats, where we conduct most of our studies on pets. The Laboratory currently has around 50 dogs, 50 cats, and 60 red-footed tortoises, and we follow detailed international standards to ensure good welfare and health for all of them! Finally, I’m responsible for the extrusion laboratory, working on the field of feed processing, a research line that I conduct also as an Adjunct Faculty of the Department of Grain Science and Industry, Kansas State University. The best part is that all this keeps me in touch with young, motivated and dedicated students, working hard to build their career and life, they constantly re-infect me with their enthusiasm and make me grow with them.
The 23rd congress of the ESVCN was held in Turin, in the region of Piedmont, in Italy. More than 250 delegates from all over the world took part in the congress between 18th and 20th of September 2019. Scientists from Europe, Canada, USA, Brazil, India, China, Middle East, Africa as well as professionals of the feed industry, exhibitors and sponsors, gathered to take part in the scientific sessions of the Congress.

Special thanks go to the Organizing Committee, chaired by Prof. Achille Schiavone and Dr. Joana Venda da Graça Nery of the Department of Veterinary Science of the University of Turin, supported by their Congress team: Prof. Emanuela Valle, Dr. Manuela Renna, Dr. Liviana Prola, Prof. Maria Grazia Cappai, Prof. Walter Pinna and Prof. Domenico Bergero (ESVCN President 2007-2010). We thank them all for their hard work and a fantastic Congress.

Exceptional social events also characterized the congress organized for delegates with beautiful Torino and its historical buildings as a backdrop.

During the social dinner, held in the Palazzo Carignano, two new ECVCN Diplomates (EBVS), Dr. Saara Sander (right) and Dr. Veerle Vandedriessche (left) were introduced by the ECVCN President Dr. Cecilia Villaverde (middle).
Focus on the Helmut Meyer Award

The Helmut Meyer Award is awarded yearly to the best contribution presented during the ESVCN congress, on different topics regarding production animal nutrition. To be eligible to win the Helmut Meyer Award, the scientist must be a member of our Society and display novel, rigorous and comprehensive results within the research presented at the congress as an oral contribution.

This prestigious award was proposed by Prof. Josef Kamphues, Director of the Institute of Animal Nutrition of the University of Veterinary Medicine of Hannover, in memory of Prof. Helmut Meyer, former Director of the same Institute, whose work on animal nutrition vastly contributed to advance the knowledge in this field, increasing our understanding of animal nutrition of many animal species but especially of horses. Prof. Helmut Meyer was one of the founding fathers of ESVCN.

During the 23rd Congress of the ESVCN in Turin, the evaluation jury of oral contributions presented over the three days congress for Helmut Meyer Award attribution was chaired by Prof. Annette Liesegang and included Prof. Josef Kamphues, Prof. Maria Grazia Cappai and Dr. Linda Böswald. The Helmut Meyer Award 2019 went to Dr. Marco Fantinati, University of Toulouse (picture), who reported results on research in wood pigeon feeding habits in relation of seasonal and geographic change of feeding source availability. Congratulations!

Former winners of the Helmut Meyer Award:
2018 - Marc-Alexander Lieboldt, University of Rostock University.
2017 - Linda Böswald, Ludwig-Maximilians-Universität Munich.
2016 - Brigitta Wichert, University of Zurich
2015 - Francis Enjalbert, National Veterinary School of Toulouse.
2014 - Anne Mößeler, University of Veterinary Medicine Hannover.
2013 - Petra Wolf, University of Veterinary Medicine Hannover.
2012 - Fikremariam Geda Ararame, University of Ghent.
2011 - Maria Grazia Cappai, University of Sassari
2010 - Julia Fritz, Ludwig-Maximilians-Universität Munich.
2008 - Annette Liesegang, University of Zurich

Turin, 23rd ESVCN congress 2019. Prof. Annette Liesegang and Dr. Marco Fantinati, the latest winner of the Helmut Meyer Award.
**Award Winners ESVCN 2019**

**Helmut Meyer Award** - In remembrance of the late Prof. Helmut Meyer Award. This is a prestigious over-arching ESVCN Award.

**Marco Fratinati** et al.: Dietary regimen of the wood pigeon

**Josef Leibetseder Poster Award** - In remembrance of the late Prof. Josef Leibetseder. This is a prestigious over-arching ESVCN Award.

**Josefa Madrid** et al.: Effect of the type of feed on the growth and composition of Zoophobas morio

**ESVCN/WALTHAM Student Award** - Best oral presentation on a companion animal topic.

**Caitlin Grant** et al.: Metabolomic signature of energy restriction in obese cats

**Cat Nutrition Award** – sponsored by Nestlé-Purina.

Best oral presentations in the field of cat nutrition.

**Guido Bosch** et al.: Fermentability of undigested residues from insects in cats: an in vitro pilot study

Unfortunately Guido was not present to receive his prize

**Comparative Nutrition Award** – sponsored by Dechra-Specific

Best oral presentations in comparative nutrition.

**Linda Böswald** et al.: Investigations on dietary and faecal Ca/P ratios in hindgut and foregut fermenters

**Best Video Poster Presentation:** Giarda Morelli et al., A survey on domestic commercial dry pet food storage practices

**Giulia Giordani Poultry Nutrition Awards:** Local Organising Committee Award in remembrance of the late Prof. Giulia Giordani - Best Posters in Poultry Nutrition

- Effects of the administration of a symbiotic preparation on productive performance and plasma metabolomics profile of broiler chickens. M. Zampiga, L. Laghi, B. Syed and F. Sirri
Some friends and colleagues have written down their thoughts and memories in honour of Prof. Kamphues’ retirement in 2019. Compiled by Maria Grazia Cappai.

Maria Grazia Cappai:
“Prof. Josef Kamphues is an icon of our Society. Nearly all of the young and also not so young ESVCN members, know who Prof. Kamphues is. Together with many other Professors he was one of the early founding members of ESVCN, who, in a way, are like the spinal cord of our society. I met Prof. Kamphues in Nantes, when Prof. Patrick Nguyen (President of the College at that time) in 2006 organized a marvellous ESVCN Congress! and when Prof. Domenico Bergero (vice-President of ESVCN at that time) introduced me to Prof. Kamphues (President of the ESVCN).

Then, we met again in 2007, when Prof. Manfred Coenen and his team (Prof. Ingrid Vervueren in particular) performed a miracle in the last minute by organizing the ESVCN Congress in Leipzig, instead of Edinburgh, where Prof. Derek Cuddeford, unfortunately, had very serious health problems. From then it took only three months for me to go to Hannover and start to work in the Institute of Prof. Kamphues for 8 months in 2008 and once a year I continue to attend the Institute for short periods, until 2018. During those 10 years, I have been caught in a never-ending update of research and exploration of new perspectives in animal nutrition for livestock, mostly pigs and poultry, in order to fulfil industry and farmers’ needs. In November 2019 Prof. Kamphues retired but left the leadership of the Institute of Animal Nutrition at the University of Veterinary Medicine of Hannover, in the good hands of Prof. Christian Visscher.

Some may remember that at the AGM 2018 Prof. Kamphues, sitting close to Prof. Ellen Kienzle (but everybody in the room could hear clearly...), said that he would very much support the starting up of a Newsletter, when I launched the idea to members. So, now that you are retired, Prof. Kamphues, I trust you may have more time to provide some interesting insights to be published in the Newsletter. Though, I am aware, that requests from many parts in the world will be keeping you busy, asking for your participation in conferences, lectures and seminars - please, save a little time to contribute to our Newsletter!!! Thank you!”

Prof. Jürgen Zentek: “Josef Kamphues has worked for many years with great personal commitment and dedication for our society and the college. His ideas and suggestions were always characterized by practical relevance, veterinary aspects of animal nutrition and the support of young people who received a solid education on a scientific basis. He has promoted this in many ways, the number of his projects and doctoral students is legendary. He has truly rendered outstanding services to animal nutrition science in Europe”.

Prof. Manfred Coenen: “We put a pipe through the wall of a plastic bowel – serving as a lab scaled silo – to the inside, filled this pipe with water and measured the temperature inside during the fermentative processes of pressed sugar beet pulp. It was not a scientific project, it was simply fun. This specific fun was in following, observing, measuring, understanding biological phenomena in feed and the response of animals to nutrition is a unique characteristic of Josef Kamphues’s work. It is of a quite limited value to count his papers.

The impact of his work on the state of the art in the discipline of Animal Nutrition, that is the point to be underlined. He understood the needs, options and perspectives in measuring the hygiene standard in feed. The lipopolysaccharides matured to be an example for feed properties on one hand and for the power of responses in animals’ stomachs and intestines on the other hand. The work impressively shows the pacemaker function of gastric digestive processes for the entire intestinal tract.”
Nowadays, it is well accepted that in monogastric animals gastric fill is having an upper safe limit, not by mechanical reasons but by a limited capacity to get the ingesta acidified and conditioned for small intestinal digestion. For many years it was a non-discussed agreement that mechanical and thermal feed processing, in pig and poultry nutrition, is a necessary measure to improve the animals’ performance and health. Josef Kamphues’s work shows – let’s say, the opposite. The shift in fermentation (including the, often neglected, microbial activity in the small intestine) towards an increased portion of butyric acid by the ingestion of non-hydrolysable but fermentable starch, has been isolated as a key for gastrointestinal health. Moreover, butyric acid promoting feeding is a natural, antibiotic free strategy for the depression of Salmonella and other possibly harmful bacteria. In consequence this work has made an impact on the entire chain from stable to table and serves the concept of „One Medicine – One Health“. Hard work and enormous diligence enabled Josef Kamphues to be ‘infectious’ for students and young scientists, to get them motivated to think about animal nutrition and to work in this field. He is a driving factor for the science serving capability of the ESVCN.”

Prof. Christine Iben: “I have had the pleasure to know Josef Kamphues for a long time and for me he is a unique person and scientist. Why? He is curious, interested in everything dealing with nutrition, open minded to new or unconventional scientific questions, empathetic, I guess he is the only person looking at each poster during congresses, and last but not least – he dances even on tables if there is no other space. Thank you for your friendship!”

Prof. Ellen Kienzle: I met Josef Kamphues when he was a post-doc and I was a postgraduate student in Hannover with Helmut Meyer being our tutor. We always joke that we are litter mates. We share so many memories. Josef showed me how to make a nice materials and methods slide for my first presentation at the meeting of the Society of Nutrition Physiology in Göttingen. We worked hard together measuring amylase in Josef’s piglets. Our technicians could not believe how efficient we were. The downside, however, was the mess we made in the lab. We also had some legendary disagreements but we always remain friends. And I remember an introduction to eating Sushi in Davis California in 1990 (“You do not mean that we are going to eat raw fish!? ”). In recent years we visited each other regularly for guest lectures, and we shared nice dinners and had stimulating discussions. Josef’s merits are innumerable. I want to point out one thing, however, which is that he kept up the work on the German textbook “Supplemente “. He managed to make many authors cooperate for this book – even in the face of a changing academic landscape. We have recently discussed that it would be a great idea to expand the “Supplemente” into a European veterinary nutrition textbook in English as a basis for training our residents. I hope that Josef will work on this, and thus continue the legacy of Josef Leibetseder and Helmut Meyer for future generations of veterinary nutritionists.

Prof. Kamphues on ‘Team Chocolate’ at the 2019 Residency Dinner, Turin

Prof. Josef Kamphues received the prestigious Henneberg-Lehmann Award at the Faculty of Agricultural Sciences of Georg-August University in Göttingen, in 2014.
Invitation to ESVCN 2020
By Ana Laurenço

Dear Colleagues, dear Friends

It is with great pleasure that we announce our 24th Congress of the ESVCN which will take place in Vila Real (Portugal) on 17th to 19th of September 2020 (Thursday to Saturday). The Residency Class of the European College of Veterinary and Comparative Nutrition will be organized on 15th to 16th of September 2020 (Tuesday and Wednesday).

The 2020 Congress will be held at the University of Trás-os-Montes and Alto Douro. The university campus is located in the middle of three old farms where new and old farm buildings are located within a beautiful and bucolic botanical garden. One of the most iconic monuments found on the Campus is the Espírito Santo Chapel, used as inspiration for the logo of our Congress. Near the University Campus along the Douro river, lies the Alto Douro Wine Region, a UNESCO World Heritage Site, which we highly recommend for a post-congress visit not only for the breath-taking landscape but also for the outstanding quality of wines. Please see the next page for diary dates and registration details.

Apart from our invited keynote speakers we will welcome your contributions on comparative nutrition of farm animals, pets and wildlife. You will find all the updated information concerning abstract submission deadlines and registration at www.esvcn2020.eu

For any further information, please contact us at info@esvcn2020.eu
We are looking forward to welcome you in Vila Real

Ana Lourenço

On behalf of The ESVCN Local Organising Committee, Vila Real 2020,
Contact: info@esvcn2020.eu
Save the dates
September 15-16  Residency class of the ECVCN
September 16    Port of Honour (Evening Welcome Reception)
September 17-19 Congress of the ECVCN
September 19    Post-conference tour (Afternoon and Evening)

Abstract submission deadlines
March 15  Abstract submission deadline
April 15  Communication on 1st review decision
May 1    Resubmission, if required
June 15  Final decision on abstract acceptance
July 1    Early registration closes

Registration
Royal Canin is once again kindly sponsoring the Free Registration of Young European Veterinarians (< 35 years, not board certified) for the 24th Annual ECVCN Congress that will take place in Vila Real Portugal. For more information see website.

<table>
<thead>
<tr>
<th>Registration fees (€)</th>
<th>Early bird (until 1st July)</th>
<th>After 1st July</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESVCN member¹</td>
<td>220</td>
<td>270</td>
</tr>
<tr>
<td>ESVCN Non-member¹</td>
<td>280</td>
<td>330</td>
</tr>
<tr>
<td>Student² (ESVCN Member)</td>
<td>100</td>
<td>150</td>
</tr>
<tr>
<td>Student² (non-member)</td>
<td>150</td>
<td>200</td>
</tr>
<tr>
<td>Extras (€)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proceedings (printed version)</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>Gala Dinner³</td>
<td>50</td>
<td>60</td>
</tr>
<tr>
<td>Post-conference tour³,⁴</td>
<td>100</td>
<td>150</td>
</tr>
</tbody>
</table>

¹ You have to be an ESVCN member prior to registration at the Congress. You can register at https://esvcn.org/memb/registr
² must provide a copy of the student card/certificate, valid throughout the academic year of 2019/20 to esvcn2020@gmail.com
³ limited places available
⁴ dependent on a minimum number of participants
ESVCN Society Business

News from the Treasurer
by Ronald Corbee
Dear members, hope all is well. This year we offer the opportunity to renew your membership online and pay by STRIPE. Unfortunately, this system does not provide you an invoice and/or payment receipt at the moment (but we are working on it) so if you need those, please let me know. If you prefer payment by bank transfer, please let me know, and I will send you an invoice with payment details (esvcnpayments@gmail.com). You will then receive a Coupon Code to enter your paid status on the website page.

ESVCN Sponsorships, Grants and Opportunities
by Britta Dobenecker
We are very happy to announce that our Sponsorship Portfolio has grown in the past few months. We now have three Society Gold Sponsors, with Royal Canin joining the ‘Golden Circle’ and we also welcome back Tereos as a Society Silver Sponsor. Without our Society Sponsors generous support we could not make the Congress as affordable and special as it is. Their contributions help us to keep the membership fee once again at the original level and they help us to set up grants and support.

GANS Grant Opportunity
As announced at the AGM 2020 the ESVCN is giving out grants for members who wish to submit an Abstract and go to the GLOBAL ANIMAL NUTRITION SUMMIT. We await applications – funding from €500 - €1000 will be given out, depending on number of applicants. Please write an open letter with justification and attached submitted abstract, if one has been submitted, to our.secretary@esvcn.info.

ECVIM Support Opportunity
Diplomates (EBVS® European Specialists in Veterinary and Comparative Nutrition) are strongly encouraged to submit an Abstract to ECVIM to promote the importance of Animal Nutrition within this area. As every year, ESVCN will support you by funding registration and some travel fees. Please apply directly via open letter to our.president@esvcn.info.

12
ESVCN Webpages
by Andrea Ellis

The new website was launched at the AGM in Turin, 2019. As with any new system a few teething problems occurred, but for the majority of members the transition to their new ESVCN Web-home ran smoothly. As explained, everyone had to ‘apply’/ ‘join us’ again from scratch and those who have already paid received a Coupon Code. If you are one of our ‘past/current’ members but have not yet signed onto the NEW Webpages, please do so by ‘joining us’. If you have paid already contact us for a code.

Once again – this is YOUR Website and Members Hub – and we call upon you to send us information, whether it be suggestions for additions to the Knowledge Hub (Case Studies, Links to important papers, Open Resources links) or new Opportunities or even Events. As part of this, please consider filling in the Experts Register. This will only be visible internally to other ESVCN members.

Introducing the ESVCN to the AAVN – published in recent AAVN Newsletter
by Pat Harris

All About
European Society of Veterinary & Comparative Nutrition (ESVCN)

What is ESVCN?
ESVCN is in many ways the European counterpart to AAVN. It is a non-profit organization which aims:
1. to generate interest, stimulate research and disseminate knowledge in veterinary nutrition, comparative nutrition and nutrition-related diseases;
2. to promote pre- and post-graduate education in veterinary and comparative nutrition;
3. to stimulate the application of clinical nutrition in veterinary schools by cooperation between nutritionists and clinicians; and to cooperate with other societies with related interests.

What is the ESVCN Congress?
ESVCN hosts a very social, highly interactive 3 day conference usually in September in a European country. This can cover all species from exotic to companion and the latest research on veterinary and comparative nutrition is presented. In addition, plenary lectures are given on specialist subjects and debates are held on ‘hot’ topics within the field of veterinary and comparative nutrition.
The next congress will take place in Vila Real, at the University of Trás-os-Montes and Alto Douro (UTAD) in Portugal from the 17th - 19th September 2020. All are welcome to participate.

Who can join the ESVCNN?
ESVCN membership is open to science graduates (worldwide) and students working towards a science graduate degree interested in the topic area. Membership is not restricted to veterinarians.

How can I learn more?
ESVCN would love AAVN members to attend the conference and also welcomes global members. You can find out more at https://esvcn.org or chat with Dr. Patricia Harris at the AAVN Symposium in June.
From Z to A of our member Academic Institutes
Portrait of the Centre of Animal Nutrition of the University of Utrecht
By Dr. Ronald Jan Corbee, ECVCN Dipl. and Prof. Dr. Wouter Hendriks

The Centre of Animal Nutrition is a collaboration between Utrecht University and Wageningen University. Members of the Centre are actively engaged since decades in education, research and consulting in the field of veterinary and general animal nutrition. The Faculty of Veterinary Medicine is among approved residency programmes of the European College of Veterinary and Comparative Nutrition (ECVCN). Under the leadership of Prof. Dr. Wouter Hendriks, in close collaboration with Dr. Ronald Jan Corbee, who is the Treasurer of ECVCN, the Centre has one Diplomate, 1 Resident, 1 Intern and multiple high-profile scientists. Service and consulting on the feeding of farm animals and the feeding of pets are run daily. In Utrecht, clinical nutrition services with main focus on dietetics are present at the small animal clinic. In Wageningen there are several well equipped laboratories and animal facilities including metabolic cages and in vitro digestion models. All these areas are also involved in teaching veterinary students, animal science students, interns and residents. Activities of the Institute consist of: -Advising veterinary clinics and farms on feeding issues and assisting in the diagnosis of food-related diseases -Dietetics in small and large animals -Weende analysis and bomb calorimetry -VFA measurements in faeces and rumen fluid -Microbiome analysis -Electric nose analysis -In vitro digestion trials -Studies on protein/amino acid metabolism in metabolic cages. Several clinical and fundamental nutritional studies are currently conducted on a diverse range of topics. Current resident is Mr Marco Isidori (alternative track) and the current intern is Ms Lonneke Noorman (now working on her PhD, and she will follow a standard programme afterwards).