ECVPH Secretary

c/o Andreas Wunsch,

Amt der Burgenländischen Landesregierung

Europaplatz 1

A-7000 Eisenstadt

01.06.2016

**Final dossier of ECVPH Individual Residency Training Program (IRP) at the University of Veterinary Medicine, Institute for Food Quality and Food Safety**

# Resident: XX XX

# Residency Program Director: Prof. XX XX (Subspecialty area: Food Science)

# Residency Program Advisor: Prof. XX XX (Subspecialty area: Population Medicine)

IRP Duration: June 2012 - June 2015

Activity logbook and the report for the 4th Year (June 2015 - June 2016)

Dear ECVPH Secretary,

As outlined below, hereby we report the activities during the residency time from 2012-2015 and the additional year from June 2015-June 2016 of the ECVPH individual residency training program of XX XX. Please find below all activities between June 2012 until today. Reprints of all publications, the curriculum vitae and the list of oral and poster presentations is send separately by email as attachments.

Thank you for your consideration!

**Final report: June 2012- June 2015**

1. **Conferences**

2012-2013

* 1. Pharmacological seminar “Prophylaxis and therapy of zoonotic diseases”(4h) at the

University of Veterinary Medicine Hannover in Hannover (Germany), summer term 2013

* 1. “Recent developments in Animal Welfare” at the University of Veterinary Medicine Hannover in Hannover (Germany), 13./14.09.2012 (12h)
  2. 53rd Congress on Food Hygiene of the German Vet-Association, Garmisch-Patenkirchen (Germany), 25.09.2012- 28.09.2012 (24h)
  3. Congress 2012 of the federal practicing veterinarian association in Hannover (Germany), 15-18. November 2012 (24h)
  4. “Trialog 2012: Research, Economics and Surveillance” at the University of Veterinary Medicine Hannover in Hannover (Germany), 27.11.2012 (8h)
  5. “Drinking water hygiene: health in life stocks and the use of antibiotics” at the University of Veterinary Medicine Hannover in Hannover (Germany), 29.11.2012 (7h)
  6. “Dairy Day 2012” at the University of Veterinary Medicine Hannover in Hannover (Germany), 07.12.2012 (8h)
  7. “Reduced use of antibiotics and antibiotic resistance” at the University of Human Medicine in Hannover (Germany), 06.02.2012 (4h)
  8. VPH conference 2013 “Risk-oriented Surveillance and Counselling: methodical and substantial Strategies”, 08.02.2013 at the University of Veterinary Medicine Hannover in Hannover (Germany) (8h)

2013-2014

1.10 “Food Safety in meat production: Quo Vadis?” at the University of Veterinary Medicine in Bakum, VION Food Group in Emstek and Emsland Frischgeflügel in Haren/Ems (Germany), 12.02.-14.02.2014 (24h)

1.11 VPH conference 2014 "ESBL: an emerging hazard or a new name for known problems? The duty of the veterinary profession for avoiding and reduction of antimicrobial resistance“, 07.02.2014 at the University of Veterinary Medicine Hannover in Hannover (Germany) (8h)

1.12 “Dairy Day 2014” at the University of Veterinary Medicine Hannover in Hannover (Germany), 21.02.2014 (8h)

1.13 “Food safety of non-animal origin products” held by LAVES, the regional authority for food safety and consumer protection for Lower Saxony at the University of Veterinary Medicine Hannover in Hannover (Germany), 18.03.2014 (8h)

1.14 Interdisciplinary conference “ Ensuring Health and Sustainability in Europe: Doctors and Veterinarians emphasize “Prevention is better than cure” held by FVE, EC and CPME in Brussels (Belgium), 07.04.2014 (8h)

2014-2015

1.15 Conference “Updates to the risk-orientated ante-mortem and meat inspection” at University of Veterinary Medicine Hannover in Hannover (Germany), 18.06.2014 (6h)

1.16 55. Congress on Food Hygiene of the German Vet-Association, Garmisch-Patenkirchen (Germany), 23.-26.09.2014 (20h)

1.17 KIKK international digital conference on data visualization, Namur (Belgium) 06.-07.11.2014 (8h)

1.18 “Dairy Day 2015” at the University of Veterinary Medicine Hannover in Hannover (Germany), 24.04.2015 (8h)

2015-2016

1.19 KIKK international digital conference on data visualization, Namur (Belgium), 05.-06.11.2015 (5h)

1.20 Interdisciplinary Training School focused on food and transversal skills, University of Namur, Namur (Belgium), 17.-19.05.2016

**2 Courses and Seminars**

2012-2013

* 1. Interdisciplinary course “Project management” at the University of Veterinary Medicine Hannover in Hannover (Germany), 23.06.2012 (8h)
  2. Weekly seminar “Pre- and Post-slaughter examination of farm animals, wild animals and poultry”, at the University of Veterinary Medicine Hannover in Hannover (Germany), winter term 2012 (24h)
  3. Seminar “Basics in Risk analysis” in at the University of Veterinary Medicine Hannover in Hannover (Germany), 27.02.2013-01.03.2013 (32h)
  4. “Life stock and animal welfare benchmarking at the abattoir as crucial requirements for herd health optimization” at the University of Veterinary Medicine Hannover with study trip to a pigs abattoir in Coesfeld (Germany), 19.12.1012 (5h)
  5. Course “Veterinary Epidemiology” at the University of Veterinary Medicine Hannover in Hannover (Germany), 07.12.2012, 14.12.2012, 11.01.2013, 18.01.2013 (16h)
  6. Course “Repetition Biometry” at the University of Veterinary Medicine Hannover in Hannover (Germany), 11.01.2013, 25.01.2013, 01.02.2013 (12h)
  7. Course “Molecular methods in food science” at the University of Veterinary Medicine Hannover in Hannover (Germany), 22.01.2013- 24.01.2013 (24h)
  8. Interdisciplinary **compulsory** course “**Presentation program / training – Rhetoric”,** at the University of Veterinary Medicine Hannover in Hannover (Germany), 06.05.2013 - 07.05.2013 (16h)
  9. Weekly **Lecture “Molecular mechanisms of cancer formation”** at the University of Veterinary Medicine Hannover in Hannover (Germany), summer term 2013 (12h)
  10. Course “**Validation of diagnostic tests - standard procedure and validation in absence of gold standards”,** at the University of Veterinary Medicine Hannover in Hannover (Germany), summer term 2013 (2h)

2013-2014

2.11 “BfR/FDA Workshop Series on tools on food defense and safety” at the Federal Institute for Risk Assessment in Berlin (Germany), 04.09.-06.09.2013 (24h)

2.12 ECVPH Residency workshop on tick-borne diseases within the AGM ECVPH 2013, 16.09.-20.09.2013, Turin (Italy)

2.13 Seminar „Basics in R” at the Federal Ministry of Risk Assessment, Berlin (Germany), 15.10.2013

2.14 “Basics in ethics for the veterinary profession” at the University of Veterinary Medicine, Hannover (Germany), 18. and 19.01.2014 (16h)

2.15 Weekly Lecture “Molecular mechanisms of cancer formation” at the University of Veterinary Medicine Hannover in Hannover (Germany), summer term 2013

 2.16 Interdisciplinary compulsory course “Speed reading” at the University of Veterinary Medicine Hannover in Hannover (Germany), 08.06.2013 (8h)

2.17 Course “Added value and risks associated with functional food – can we buy health in grocery stores? ” at the University of Veterinary Medicine Hannover in Hannover (Germany), 19.06.2013 (4h)

2.19 “Life stock and animal welfare benchmarking at the abattoir as crucial requirements for herd health optimization” at the University of Veterinary Medicine Hannover with research trip to a poultry abattoir in Ahlhorn (Germany), 13.11.2012 (5h)

2.20 “Validation of diagnostic tests - standard procedure and validation in absence of gold standards”, at the University of Veterinary Medicine Hannover in Hannover (Germany), 06.12.2013 term 2013 (2h)

 2.21 Weekly lecture “Design and statistical analysis of animal experiments”, at the University of Veterinary Medicine Hannover in Hannover (Germany), winter term 2013 (12h)

2.22 Weekly practical group session in combination with the weekly lecture “Design and statistical analysis of animal experiments”, at the University of Veterinary Medicine Hannover in Hannover (Germany), winter term 2014 (12h)

2014-2015

2.23 Course “Basics training in the IUL EDDY JET 2 spiral plater technology” at the University of Veterinary Medicine Hannover in Hannover (Germany), 06.06.2014 (4h)

2.24 Seminar “Basic ethics for the veterinarian profession” at the University of Veterinary Medicine, Hannover (Germany), 24.-25.01.2015 (16h)

2.25 Practical course ““Production, processing, examination and evaluation of milk and dairy products” at the University of Veterinary Medicine Hannover in Hannover (Germany), winter term 2014/2015 (8h)

2.26 Practical course “Production, processing, examination and evaluation of insects and products thereof” at the University of Veterinary Medicine Hannover in Hannover (Germany), winter term 2014/2015 (6h)

2.27 Interdisciplinary **compulsory** course “Scientific English” at the University of Veterinary Medicine Hannover in Hannover (Germany), 22.01.-05.03.2015 (12h)

2.28 Seminar “Ethical considerations for veterinarians at abattoirs” at the University of Veterinary Medicine, Hannover (Germany), 20.05.2015 (4h)

2.29 ECVPH Residents Workshop on Animal Health Surveillance design, implementation and evaluation, at the Vetsuisse, University of Bern (Switzerland) 27.05.2015-29.05.2015 (20h)

2015-2016

2015-2016

2.30 Data Cuisine Workshop, **collaborative research experience on** food as a means of communication and information expression, Gemboulx (Belgium), 27.-29.04.2016 (20h)

# 2.31 Workshop “Publishing in a Nature Research Journal” with Bart VERBERCK, Senior Editor, Nature Physics, London (UK), 17.05.2016, University of Namur, Namur (Belgium)

2.32 The One Health International Summer Course, 5-week online module, 09.05.-10.06.2016, University of Copenhagen (UCPH) and Technical University of Denmark (DTU), Copenhagen (Denmark)

2.33 “Basic ethics for the veterinary profession” at the University of Veterinary Medicine, Hannover (Germany), 28.-29.05.2016 (16h)

1. **Academic exchange**

3.1 Research field trip and academic exchange to the University of Guadalajara, Mexico from 11.03.2013 to 27.03.2013

3.2 Traineeship at LAVES, the regional authority for food safety and consumer protection for Lower Saxony in their HQ, Oldenburg (Germany) within the department on surveillance of the national and trans boundary food chain, the Task Force on food safety and the department on surveillance and control of animal drugs and residues 09.12.2013- 13.12.2013 (40h)

3.3 Research field trip and VPH volunteering at Elephant Nature Park in Chiang Mai (Thailand) 22.02.2014 to 12.03.2014

3.4 Traineeship at the Federal Institute for Risk Assessment in their HQ, Berlin (Germany), Unit for Epidemiology, Biostatistics and Mathematical Modelling, supervised by PhD Christine Müller-Graf, 09.03.2015- 13.03.2015 (40h)

**4 Projects**

4.1 Multiple Peritonitis of broiler chicken: microbial analysis and risk evaluation on meat quality and safety (2010-2013)

4.2 Development of a protein-based microarray for *Campylobacter jejuni* (2011-2013)

4.3 Microbiological criteria in European raw milk cheese and in fresh-cut salads and take-away smoothies (Mikrothek, 2013/2014)

4.4 Zoonoses in global trade: known and emerging zoonoses in illegal and legal imported food of animal origin from third countries into the European Union (ZooGloW, AP2) (2014-2016)

4.5 Microbiological status and legal considerations of edible insects sold as pet feed in Germany (2014-2015)

4.6 Preparing of the PhD Project: Molecular epidemiology of *Brucella* ssp. in imported dairy products from endemic countries purchased in Germany and associated survival mechanism and tenacity of *Brucella* in milk and dairy products (2016-2018)

**5 Publications**

Journal articles in 2015/2016

Rohde, A., Hammerl, J.A., Boone, I., Jansen, W., Fohler, S., Klein, G., Diekmann, R., Al Dahouk, S. (2016): Overview of validated alternative methods for the detection of foodborne bacterial pathogens, in preparation

Müller, A., Seinige, D., Jansen, W., Klein, G., Ehricht, R., Monecke, S., Kehrenberg, C. (2016): Variety of Antimicrobial Resistances and Virulence Factors in *Staphylococcus aureus* Isolates from Meat Products Legally and Illegally Introduced to Germany, submitted to Emerging Infectious Diseases (EID-16-0852)

Jansen, W., Merkle, M., Daun, A., Flor, M. Grabowski, N. Th., Klein, G. (2016): The quantity and quality of illegally imported products of animal origin in personal consignments into the European Union seized at two German airports between 2010 and 2014, PlosOne, **11**(2): e0150023

Jansen, W., Grabowski, N. Th., Klein, G*.* (2015)*:* Legal regulations for the introduction of products of animal origin in personal consignments into the European Union and their implementation in Germany, Journal of Food Safety and Food Quality, Arch Lebensmittelhyg **66:41–45** DOI 10.2376/0003-925X-66-41© M. & H. Schaper GmbH & Co. ISSN 0003-925X

Grabowski, N. Th., Jansen, W., Gómez Miranda, D. F., Ortiz Cárdenas, D. A., González Aguilar, D., Pacheco Gallardo, C., Klein, G., (2015). "Dairy products introduced illegally by airline passengers into Germany and their zoonotic potential." Journal of Food Safety and Food Quality, Arch Lebensmittelhyg **66:88-98**. DOI 10.2376/0003-925X-66-41© M. & H. Schaper GmbH & Co. ISSN 0003-925X

Grabowski, N. Th., Jansen, W., Gómez Miranda, D. F., Ortiz Cárdenas, D. A., González Aguilar, D., Pacheco Gallardo, C., Klein, G., (2015). "Total fat content and microbiological food safety parameters of cheeses introduced illegally by airline passengers into the European Union " Journal of Food Safety and Food Quality, Arch Lebensmittelhyg **66:99-106** DOI 10.2376/0003-925X-66-41© M. & H. Schaper GmbH & Co. ISSN 0003-925X.

Jansen, W., Grabowski, N. Th., Gerulat, B., Klein, G. (2015): Food safety hazards and microbiological zoonoses in European meat imports detected in border inspection in the period 2008–2013, Zoonoses and Public Health **63**(1): 53-61.

Poster

Jansen, W., Grabowski, N. Th., Muylkens, B., Kirschvink, N., Klein, G.: Quality and Quantity of illegally introduced dairy products from non-European countries, Interdisciplinary NARILIS training school 2016, 17.-19.05.2016, University of Namur, Namur (Belgium)

Pleas see the attached list of presentations and the complete publication list in the CV.

**II Future work**

The Residency will be accomplished with the winter term exam in 2016.

Projects

PhD in cooperation of UNamur and the BfR Berlin (Germany): Molecular epidemiology of *Brucella* ssp. in imported dairy products from endemic countries purchased in Germany and associated survival mechanism and tenacity of *Brucella* in milk and dairy products (2016-2018)

Conferences

European Veterinary Public Health Assembly, Utrecht (Netherlands), 16.-17.06.2016

ECVPH Residency workshop and AGM & Annual Scientific Conference 2016 in Uppsala (Sweden), September 2016

**III Critical remarks**

No critical remarks were raised in the last two annual reports.

Please find a tabbed version of the final activities logbook attached.

Thank you for your kind attention.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Curriculum of ECVPH Residency Training Programme** | **Requirements** | | **IRP Report** | | | |
| **Part I. The common core of compulsory, introductory training elements concerning Veterinary Public Health** | | | | | | |
| **Core (Compulsory) 25% time** | Weeks | ECTS | 2012/2013 | 2013/2014 | 2014/2015 | Status |
|  | c. 32 | 45 |  |  |  |  |
| **CLUSTER A** |  |  |  |  |  |  |
| **Systems, products, hazards and controls** | 10 | 15 |  |  |  |  |
|  |  |  |  |  |  |  |
| Introductory aetiology, epidemiology, diagnostics and control of infectious and non-infectious diseases of livestock populations, either monofactorial or multifactorial in nature (specifically including zoonoses, originating from livestock populations and those infections which can be raw animal product and/or foodborne). | 3 | 4 | 1.3, 1.4, 2.9 3.1, 4.1 | 1.11, 1.12, 1.14, 2.12, 3.2 | 1.16, 1.19, 2.23, 2.25, 2.26 | ●●● |
|  |  |  |  |  |  |  |
| Optimization of animal welfare during production, transport and slaughter. | 1 | 2 | 2.2, 2.4 | 1.10, 2.19 | 1.15, 1.18 | ●●● |
|  |  |  |  |  |  |  |
| Principles and concepts of population medicine, with emphasis on (quantitative) veterinary epidemiology. | 2 | 3 | 2.5, 2.6 | 2.12, 2.21 | 3.4 | ●●● |
|  |  |  |  |  |  |  |
| Principles and concepts of food science | 2 | 3 | 1.3, 1.7, 2.7 | 1.10, 1.13, 2.11, 3.2 | 1.16, 1.19, 2.25, 2.26 | ●●● |
|  |  |  |  |
| Principles and operation of food safety and food quality management. | 2 | 3 | ●●● |
|  |
|  |  |  |  |
| **CLUSTER B** |  |  |  |  |  |  |
| **Information and data Management** | 12 | 18 |  |  |  |  |
|  |  |  |  |  |  |  |
| Biostatistics as they relate to the discipline (VPH) and disease and control problems encountered. | 6 | 9 | 1.9, 2.6, 2.3, 2.10 | 2.21, 2.22 | 3.4, 2.29 | ●●● |
| Familiarity with information and communication technology as related to veterinary public health. | 2 | 3 | 1.9, 2.3 | 2.20, 2.21, 2.22 | 3.4, 1.17 | ●●● |
|  |  |  |  |  |  |  |
| Data handling and management for veterinary public health. | 2 | 3 | 1.9, 2.6, 2.10 | 2.13 | 3.4, 2.29 | ●●● |
|  |  |  |  |  |  |  |
| Scientific writing and presentation of results from investigation | 2 | 3 | 2.1, 2.8 | 2.16 | 2.27 | ●●● |
|  |  |  |  |  |  |  |
| **CLUSTER C** |  |  |  |  |  |  |
| **Principles and concepts of veterinary public health** | 10 | 12 |  |  |  |  |
|  |  |  |  |  |  |  |
| Veterinary and scientific ethics, professionalism in veterinary public health. | 1 | 1 | 1.2, 1.9, 2.4 | 2.14, 3.3 | 2.24, 2.28 | ●●● |
|  |  |  |  |  |  |  |
| General concepts and principles of veterinary public health. | 3 | 3 | 3.1, 2.3, 2.5, 2.6 | 2.21 | 2.29 | ●●● |
|  |  |  |  |  |  |  |
| Principles and concepts of human and animal health economics. | 2 | 2 | 1.5 | 1.14, 1.13, 3.3 | 3.4, 2.29 | ●●● |
|  |  |  |  |  |  |  |
| Principles, concepts and methods of risk assessment. | 2 | 3 | 2.3 | 2.21 | 3.4 | ●●● |
|  |  |  |  |  |  |  |
| Awareness of EU and international legislation in relation to veterinary public health. | 2 | 3 | 2.2, 2.4, 3.1 | 3.2 | 2.29, 3.4, 4.6 | ●●● |
|  |  |  |  |  |  |  |
| **Part II.(B) Subspeciality Food Science (Compulsory) contains compulsory training elements.** | | | | | | |
|  |  |  |  |  |  |  |
| **Subspeciality Food Science (Compulsory) 25% time** | c. 32 | 45 |  |  |  |  |
| **CLUSTER A** |  |  |  |  |  |  |
| **Food hygiene & foodborne hazards** | 9 | 12 |  |  |  |  |
|  |  |  |  |  |  |  |
| The aetiology, epidemiology and control of foodborne diseases (bacteria, parasites, viruses, prions) | 4 | 5 | 1.3, 1.4, 1.8 | 1.14, 2.11, 2.12, 3.2 | 2.23, 2.25, 4.5 | ●●● |
|  |  |  |  |  |  |  |
| Examination, diagnostics and monitoring of microbial contamination of food including microbial ecology of foodborne pathogens and spoilage microorganisms. | 2 | 3 | 1.1, 4.1, 4.2, 4.3 | 1.13, 4.1, 4.2 | 2.25, 2.26, 4.5 | ●●● |
|  |  |  |  |  |  |  |
| VPH-aspects of residues of veterinary drugs, including antimicrobial resistance issues, pesticides, contaminants, mycotoxins and radionuclides. | 3 | 4 | 1.1, 1.6, 1.8, 2.9 | 2.15, 1.11 | 1.15, 1.16, 1.18, 4.5 | ●●● |
|  |  |  |  |  |  |  |
| **CLUSTER B** |  |  |  |  |  |  |
| **Food control & surveillance, incl. Risk analysis** | 10 | 15 |  |  |  |  |
|  |  |  |  |  |  |  |
| Management of hygiene and sanitation procedures in the food chain (i.e. personal hygiene, cleaning/disinfection of rooms, equipment etc.). | 2 | 3 | 1.3, 2.4, 3.1 | 2.19, 2.11, 1.13, 1.10, 3.2 | 1.15, 1.16, 1.18, | ●●● |
|  |  |  |  |  |  |  |
| Principles of qualitative and quantitative risk analysis (especially risk assessment and risk management) including predictive modelling. | 2 | 3 | 1.9, 2.3, 2.10 | 2.21, 2.22 | 3.4, 4.5 | ●●● |
|  |  |  |  |  |  |  |
| Sound knowledge of EU and national legislation regarding consumer protection and animal welfare and their implications on the industry. | 2 | 3 | 1.2, 1.5, 3.1 | 3.2, 1.13, 2.11 | 1.16, 4.5 | ●●● |
|  |  |  |  |  |  | ●●● |
| Meat inspection, especially alternative ante-mortem and post-mortem diagnostics of conditions of public health relevance. | 2 | 3 | 2.2, 2.4 | 1.10, 2.19 | 1.15, 1.18 |  |
|  |  |  |  |  |  |  |
| Outbreak investigation and molecular epidemiology. | 2 | 3 | 2.3, 2.5 | 1.11, 2.11 | 3.4 | ●●● |
|  |  |  |  |  |  |  |
| **CLUSTER C** |  |  |  |  |  |  |
| **Food production & processing hygiene, incl. technology** | 10 | 14 |  |  |  |  |
|  |  |  |  |  |  |  |
| Quality and safety control and quality and safety | 3 | 4 | 1.3, 1.5, 1.7, 2.2, 2.4, 4.1 | 1.10, 2.11, 1.12, 1.13, 2.17 | 1.16, 1.19, 2.25, 2.26 | ●●● |
| assurance systems in the food chain (pre-harvest, |  |  |  |
| post-harvest based on GMP, HACCP, TQM) |  |  |  |
| including auditing. |  |  |  |
|  |  |  |  |
| Post-mortem muscle biochemistry and factors | 1 | 2 | ●●● |
| affecting meat quality characteristics. |  |  |  |
|  |  |  |  |
| Hygiene and technology of the food production | 4 | 5 | ●●● |
|  |  |  |  |
| Preservation techniques (e.g. packaging, modified | 2 | 3 | ●●● |
| atmosphere, curing, fermentation, heat treatment, |  |  |  |
| irradiation, antimicrobial treatment) |  |  |  |
|  |  |  |  |  |  |  |
| **CLUSTER D** |  |  |  |  |  |  |
| **Environmental and primary / pre-harvest hygiene** | 3 | 5 |  |  |  |  |
|  |  |  |  |  |  |  |
| Impact of animal health, farming and feeding on food safety | 1 | 2 | 1.6, 3.1, 4.1 | 1.10, 3.2 | 1.15, 1.18 | ●●● |
|  |  |  |  |  |  |  |
| Environmental hygiene including water hygiene and waste management. | 2 | 3 | 1.6, 3.1 | 3.2 | 1.16, 1.19 | ●●● |