Wageningen Bioveterinary Research

Standard Residency Training Programme Veterinary Microbiology (ECVM)

First year of training – rotating internship						
Description	Details	Location	Duration			
Internship at different laboratories under the supervision of trained lab technicians	Intensive full-time training in test and quality procedures on-site. Rotating between serology, bacteriology, virology, molecular diagnostics, sample reception and processing, TSE's.	Department of diagnostics and crisis management, WBVR	Minimum of 16 weeks			
Courses (optional)	Immunology PCR ELISA Laboratory quality management (in house training: ISO 17025)		Depending on course			
Study (optional)	Focus on general principles of veterinary microbiology, immunology, host-pathogen interaction, molecular microbiology		Throughout the year			
Second year of training						
Internship at animal facilities under the supervision of veterinarian	Focus on the diagnosis of infectious diseases and treatment of animals (all sorts of species) kept at the animal facilities. Collection of microbiological case material.	Animal facilities, WBVR	Minimum of 10 days			
Internship at Veterinary Microbiological Diagnostic Centre	Focus on general bacteriology and mycology, mainly companion animals. Optional: collection of microbiological case material.	Faculty of Veterinary Medicine (VMDC), Utrecht (NL)	Minimum of 10 days			
Internship at Royal GD Animal Health	Focus on clinical microbiology, including farm visits. Mainly livestock and horses. Optional: collection of microbiological case material.	Royal GD Animal Health, Deventer (NL)	Minimum of 10 days			
Internship at National Reference Laboratory for AMR	Focus on AMR, surveillance programs	WBVR	Minimum of 3 days			
Courses	Immunology Bacteriology Mycology Laboratory quality management (in house training: ISO 17025)		2 weeks – 3 months. Depending on course			
Research	Participation in at least one research project related to veterinary microbiology.	WBVR	Throughout the year			
Study	Focus on general principles of veterinary microbiology, immunology, host-pathogen interaction, molecular microbiology		Throughout the year			
Scientific meetings	Attending scientific meetings		At least one			

Third year of training			
Internship at animal	Focus on diagnosis of infectious diseases and	Animal facilities,	Minimum of 10
facilities under the	treatment of animals (all sorts of species) kept	days	
supervision of	at the animal facilities. Collection of		,
veterinarian	microbiological case material.		
Internship at Veterinary	Focus on bacteriology, including AMR, virology	Faculty of	Minimum of 10
Microbiological	and mycology, mainly companion animals.	Veterinary	days
Diagnostic Centre	Active participation in clinical cases with special	Medicine	,
	attention to pathology. Visits to veterinary	(VMDC),	
	clinic. Collection of microbiological case	Utrecht (NL)	
	material.		
Internship at Royal GD	Focus on clinical microbiology, including AMR	Royal GD	Minimum of 10
Animal Health	and treatment (mainly livestock and horses).	Animal Health,	days.
	Active participation in clinical cases with special	Deventer (NL)	
	attention to pathology. Collection of		
	microbiological case material.		
Internship at several	Focus on pathology (all sorts of species).	WBVR/ Faculty	Minimum of 5
departments of		of Veterinary	days
pathology under the		Medicine	
supervision of certified		Utrecht (NL)	
pathologist			
Courses	Epizootiology		2 weeks – 3
	Internal medicine		months.
	Pathology		Depending on
	Public health		course
	Molecular diagnostics including sequencing		
	AMR		
Research	Active participation in at least one research		Throughout
	project related to veterinary microbiology.		the year
Study	Focus on AMR and molecular technologies.		Throughout
0 1 116	A. I		the year
Scientific meetings	Attending scientific meetings.		At least one
Fourth year of training			
Internship at animal	Focus on diagnosis of infectious diseases and	Animal facilities,	Minimum of 10
facilities under the	treatment of animals (all sorts of species) kept	WBVR	days
supervision of	at the animal facilities. Collection of		
veterinarian	microbiological case material.	- I. C	
Internship at Veterinary	Focus on novel techniques/typing of	Faculty of	Minimum of 10
Microbiological	pathogens, mainly companion animals. Active	Veterinary	days
Diagnostic Centre	participation in clinical cases. Collection of	Medicine	
	microbiological case material.	(VMDC),	
Internalia et Devel CD	Faces as a seed to share a few sizes of	Utrecht (NL)	NA:-:
Internship at Royal GD	Focus on novel techniques/typing of	Royal GD	Minimum of 10
Animal Health	pathogens. Active participation in clinical cases.	Animal Health,	days
Internalis at National	Collection of microbiological case material.	Deventer (NL)	NAinimanum of F
Internship at National	Focus on molecular diagnostics, sequencing,	WBVR	Minimum of 5
Reference Laboratory for AMR	typing and fingerprinting		days
Research	Active participation in at least one research		Throughout
Nesearcii	Active participation in at least one research project related to veterinary microbiology.		the year
	Publication of case results.		tile year
Tooching			Throughout
Teaching	Supervision of students in a project related to		Throughout
	veterinary microbiology. Presentation of at least one seminar in an academic setting.		the year
Scientific meetings	Attending scientific meetings, including at least		At least one
Scientific frieetifigs	one (poster) presentation.		At least one
	one (poster) presentation.		