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Breaking the vicious cycle of epileptogenesis

Focus on brain inflammation and matrix metalloproteinases

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CHAPTER

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Portfolio

1. PhD training	Year	Workload (hours/ECTS)
General courses		
o ONWAR Introductory course	2016	0.9 ECTS
Specific courses		
o Laboratory Animal Science (Animal Welfare) <i>Article 9 certificate</i>	2016	3.9 ECTS
o Molecular Neurobiology	2017	2 ECTS
o SYRCLE Systematic reviews of animal studies	2017	0.3 ECTS
o Grant Writing	2019	1.8 ECTS
Seminars, workshops and master classes		
o Swammerdam Lectures	2016-2019	0.7 ECTS
o ONWAR Annual PhD student retreats	2016-2019	2.7 ECTS
o ARTeC Practical Seminar <i>'Imaging'</i>	2016	4 hrs
o Science AAAS Webinar <i>'Multiplexed immunohistochemistry'</i>	2016	1 hr
o ScienCell Webinar <i>'Modeling vascular tube formation in vitro using ScienCell's 3D culturing kits'</i>	2017	1 hr
o Science AAAS Webinar <i>'Generating CRISPR mouse models: Challenges and solutions'</i>	2017	1 hr
Presentations		
o Amsterdam Neuroscience Meeting AMC-VUmc, NL <i>Presentation - 'Matrix metalloproteinases as new targets to prevent epilepsy'</i>	2016	0.5 ECTS
o Dutch Neuroscience Meeting, Lunteren, NL <i>Poster - 'Increased expression of (immuno)proteasome subunits in experimental and human temporal lobe epilepsy'</i>	2016	0.5 ECTS
o Swammerdam Institute of Life Sciences Research Day, Amsterdam, NL <i>Data blitz & Poster - 'Involvement of the (immuno) proteasome in the epileptic brain'</i>	2016	0.5 ECTS
o Swammerdam Institute for Life Sciences, Center of Neuroscience Research day, Amsterdam, NL <i>Poster - 'Increased expression of (immuno)proteasome subunits in experimental and human temporal lobe epilepsy'</i>	2016	0.5 ECTS
o SWO Midwinter meeting, Amsterdam, NL	2017	0.5 ECTS

- Data blitz & Poster - *'Increased expression of matrix metalloproteinases in human hippocampus after status epilepticus and in temporal lobe epilepsy'*
- BBBNetwork meeting, Leiden, NL 2017 0.5 ECTS
Poster - *'Increased expression of matrix metalloproteinases in human hippocampus after status epilepticus and in temporal lobe epilepsy'*
 - Amsterdam Neuroscience Event, Amsterdam, NL 2017 0.5 ECTS
Poster - *'Increased expression of matrix metalloproteinases associated with tuberous sclerosis complex can be attenuated by microRNAs 146a and 147b'*
 - ONWAR Annual PhD retreat, Woudschoten, NL 2017 0.5 ECTS
Poster - *'Increased expression of matrix metalloproteinases associated with tuberous sclerosis complex can be attenuated by microRNAs 146a and 147b'*
 - SWO Midwinter meeting, Amsterdam, NL 2018 0.5 ECTS
Data blitz & Poster - *'Attenuation of epileptogenesis in the rat by IPR-179, a novel matrix metalloproteinase-9 inhibitor'*
 - BBBNetwork meeting, Leiden, NL 2018 0.5 ECTS
Presentation - *'Matrix metalloproteinases in epilepsy and the attenuation of epileptogenesis with a novel MMP inhibitor'*
 - EpiXChange meeting, Brussels, Belgium 2018 0.5 ECTS
Poster - *'Attenuation of epileptogenesis in the rat by IPR-179, a novel matrix metalloproteinase-9 inhibitor'*
 - Dutch Neuroscience Meeting, Lunteren, NL 2018 0.5 ECTS
Poster - *'Increased expression of matrix metalloproteinases and their endogenous tissue inhibitors in human hippocampus after status epilepticus and in temporal lobe epilepsy is associated with blood-brain barrier dysfunction'*
 - Amsterdam Neuroscience Event, Amsterdam, NL 2018 0.5 ECTS
Poster - *'The novel matrix metalloproteinase inhibitor IPR-179 reduces seizures in rodent models of epilepsy'*
 - ONWAR Annual PhD retreat, Woudschoten, NL 2018 0.5 ECTS
Data blitz & Poster - *'Attenuation of epileptogenesis in rodent models of epilepsy by IPR-179, a novel matrix metalloproteinase inhibitor'*
 - SWO Midwinter meeting, Amsterdam, NL 2019 0.5 ECTS
Data blitz & Poster – *'The novel matrix metalloproteinase inhibitor IPR-179 reduces seizures in rodent models of epilepsy'*
 - Innovation for Health meeting, Rotterdam, NL 2019 0.5 ECTS
Data blitz & Poster - *'The novel matrix metalloproteinase inhibitor IPR-179 reduces epilepsy in preclinical models'*

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| ◦ BBBNetwork meeting, Leiden, NL | 2019 | 0.5 ECTS |
| <i>Data blitz - 'Matrix metalloproteinases in epilepsy: Novel inhibitor reduces seizures in preclinical models'</i> | | |
| ◦ Bonn Brain Meeting, Bonn, DE | 2019 | 0.5 ECTS |
| <i>Poster - 'The novel matrix metalloproteinase inhibitor IPR-179 reduces seizures in rodent models of epilepsy'</i> | | |
| ◦ Dutch Neuroscience Meeting, Lunteren, NL | 2019 | 0.5 ECTS |
| <i>Poster – 'The novel matrix metalloproteinase inhibitor IPR-179 reduces seizures in rodent models of epilepsy'</i> | | |
| ◦ EpiTarget Meeting, Amsterdam, NL | 2019 | 0.5 ECTS |
| <i>Presentation - 'Translating the knowledge obtained in animal models to patient material'</i> | | |
| ◦ Amsterdam Neuroscience Event, Amsterdam, NL | 2019 | 0.5 ECTS |
| <i>Poster - 'The novel matrix metalloproteinase inhibitor IPR-179 reduces seizures in rodent models of epilepsy'</i> | | |
| ◦ Society for Neuroscience Meeting, Chicago, USA | 2019 | 0.5 ECTS |
| <i>Poster - 'The novel matrix metalloproteinase inhibitor IPR-179 has disease-modifying effects in rodent models of epilepsy'</i> | | |
| ◦ ONWAR Annual PhD retreat, Woudschoten, NL | 2019 | 0.5 ECTS |
| <i>Presentation - 'Matrix metalloproteinases in epilepsy'</i> | | |
| ◦ SWO Midwinter meeting, Amsterdam, NL | 2020 | 0.5 ECTS |
| <i>Data blitz & Poster - 'The novel matrix metalloproteinase inhibitor IPR-179 has disease-modifying effects in rodent models of epilepsy'</i> | | |

(Inter)national conferences

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| ◦ ONWAR Annual PhD retreat, Woudschoten, NL | 2016-2019 | 2 days |
| ◦ BBBNetwork meeting, Leiden, NL | 2016-2019 | 1 day |
| ◦ Dutch Neuroscience Meeting, Lunteren, NL | 2016-2019 | 2 days |
| ◦ Kempenhaege International clinical symposium, Kempenhaege, NL | 2016 | 1 day |
| ◦ Swammerdam Institute for Life Sciences Research Day, Amsterdam, NL | 2016 | 1 day |
| ◦ Swammerdam Institute for Life Sciences - Center for Neuroscience Research Day, Amsterdam, NL | 2016 | 1 day |
| ◦ SWO Midwinter meeting, Amsterdam, NL | 2017-2020 | 1 day |
| ◦ Amsterdam Neuroscience Event, Amsterdam, NL | 2017-2019 | 1 day |
| ◦ European Stroke Conference, Berlin, DE | 2017 | 3 days |
| ◦ EpiXChange meeting, Brussels, Belgium | 2018 | 1 day |
| ◦ Innovation for Health meeting, Rotterdam, NL | 2019 | 1 day |
| ◦ EpiTarget Meeting, Amsterdam, NL | 2019 | 1 day |

- Bonn Brain Meeting, Bonn, DE 2019 3 days
- Society for Neuroscience Meeting, Chicago, USA 2019 5 days

2. Teaching/Supervising	Year	Workload (hours/ECTS)
Supervising		
◦ Master student internship - Maaïke van der Velden <i>'Expression of metalloproteinases and their endogenous inhibitors in temporal lobe epilepsy'</i>	2016	3 months/0,7ECTS
◦ Master student internship - Rianne Tessers <i>'The effects of the novel MMP inhibitor IPR-179 on neuropathological alterations in the epileptogenic rat brain'</i>	2018	6 months/1,3ECTS
◦ Master student internship - Jody de Jong <i>'Matrix metalloproteinases in subependymal giant cell astrocytomas in patients with Tuberous Sclerosis Complex'</i>	2018	9 months/2 ECTS
◦ Master thesis - Jody de Jong <i>'Epilepsy-associated brain tumours: Focus on the role of the extracellular matrix'</i>	2018	2 months/0,4ECTS
◦ Bachelor student internship - Fleur Schipper <i>'The effects of sunflower oil on seizures and brain pathology in the rat rapid kindling model'</i>	2019	5 months/1 ECTS
◦ Bachelor student internship - Sophie Heinis <i>'The role of microgliosis, blood-brain barrier dysfunction and extracellular matrix alterations in epilepsy after traumatic brain injury'</i>	2019	5 months/1 ECTS
◦ Master student internship - Sophie Cohen <i>'Inhibition of matrix metalloproteinases in in vitro models of the blood-brain barrier'</i>	2019	6 months/1,3ECTS
Other		
ONWAR Annual retreat, committee member	2017, 2018	
SWO Midwinter meeting, secretary's assistant	2019, 2020	

3. Parameters of Esteem	Year
Awards and Prizes	
Poster prize - Swammerdam Institute for Life Sciences, Center for Neuroscience Research day	2016
Invited poster and data blitz - Innovation for Health meeting	2019
Poster prize - Amsterdam Neuroscience Event	2019
Data blitz and Poster prize - SWO Midwinter meeting	2020