

Natalia CHEVTCHIK

PhD student / ESR 3

PhD on

Development of a bioactive membrane
for bioartificial kidney device

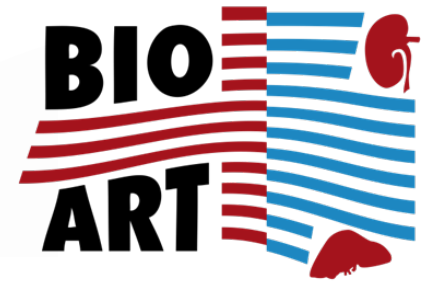
Aim & Things done
October 2014

Start date: August 2013

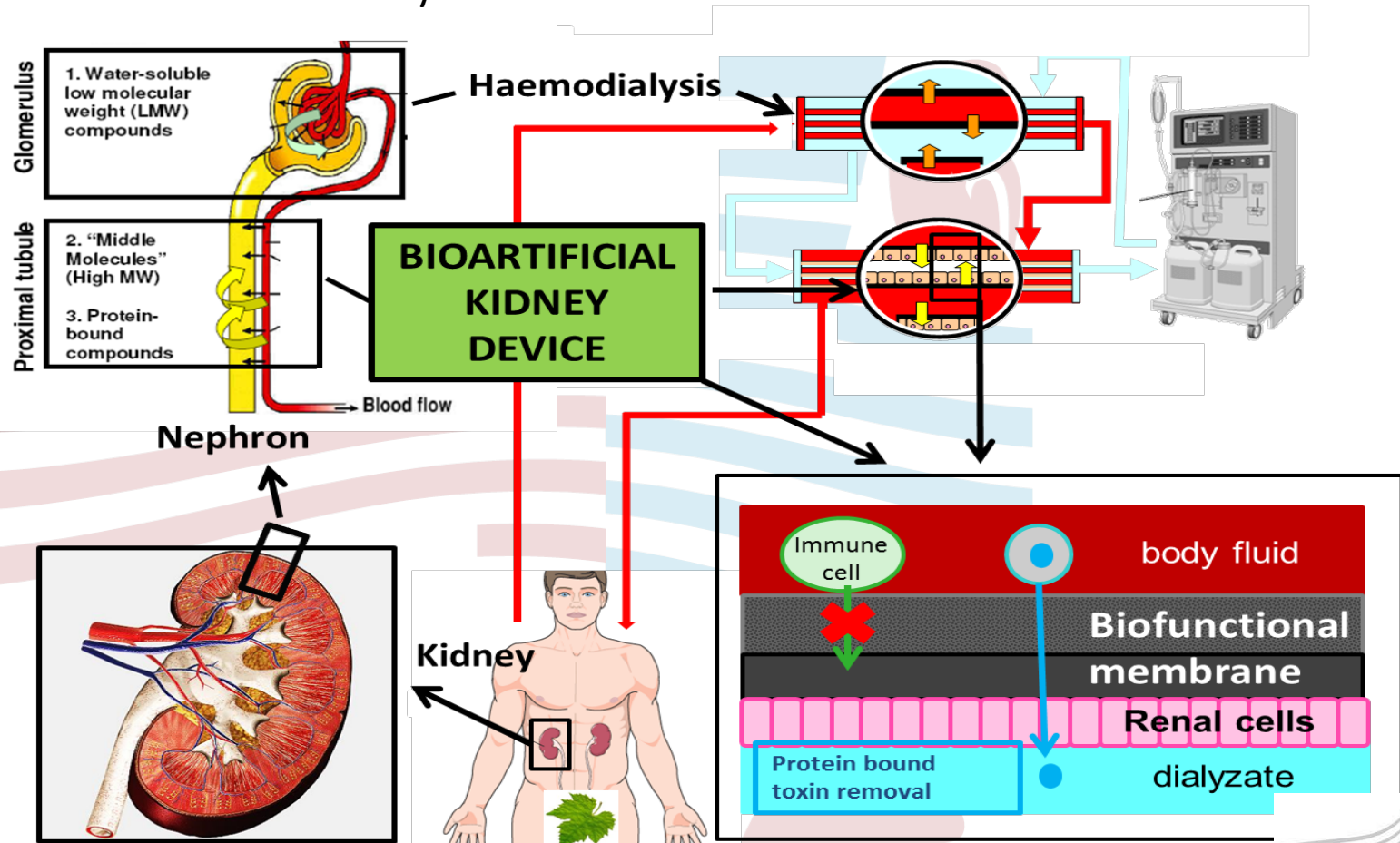
Twente University, the Netherlands



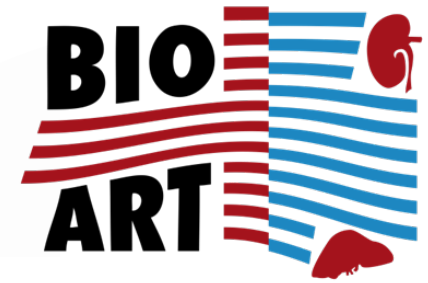
ESR3 – Project Aim



Development of a bioactive membrane for bioartificial kidney device



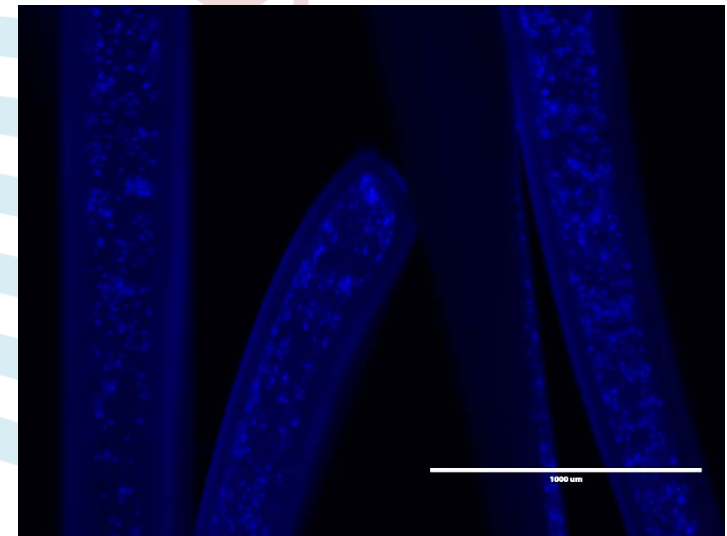
ESR3 – Bioart work



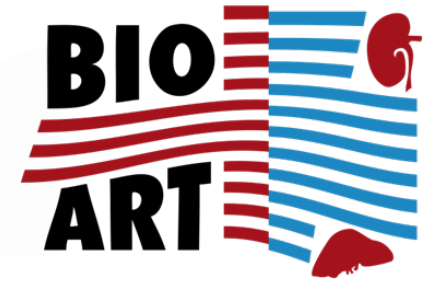
Renal cell culture in dynamic conditions



- Secondment in Excorlab
- Biokid collaboration



ESR3 – Next steps



Perspectives

- membrane functionalization via alternative methods using commercially available membranes starting on flat surfaces translating on tridimensional structures
- upscaling of the existing coated membranes (ESR4) static system dynamic culture
- collaboration with ESR4 and ESR5 and Excorlab

