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## **Optimization study on periodic counter-current chromatography (PCC) integrated in a mAb downstream process**

Joaquin Gomis Fons

Niklas Andersson

Bernt Nilsson

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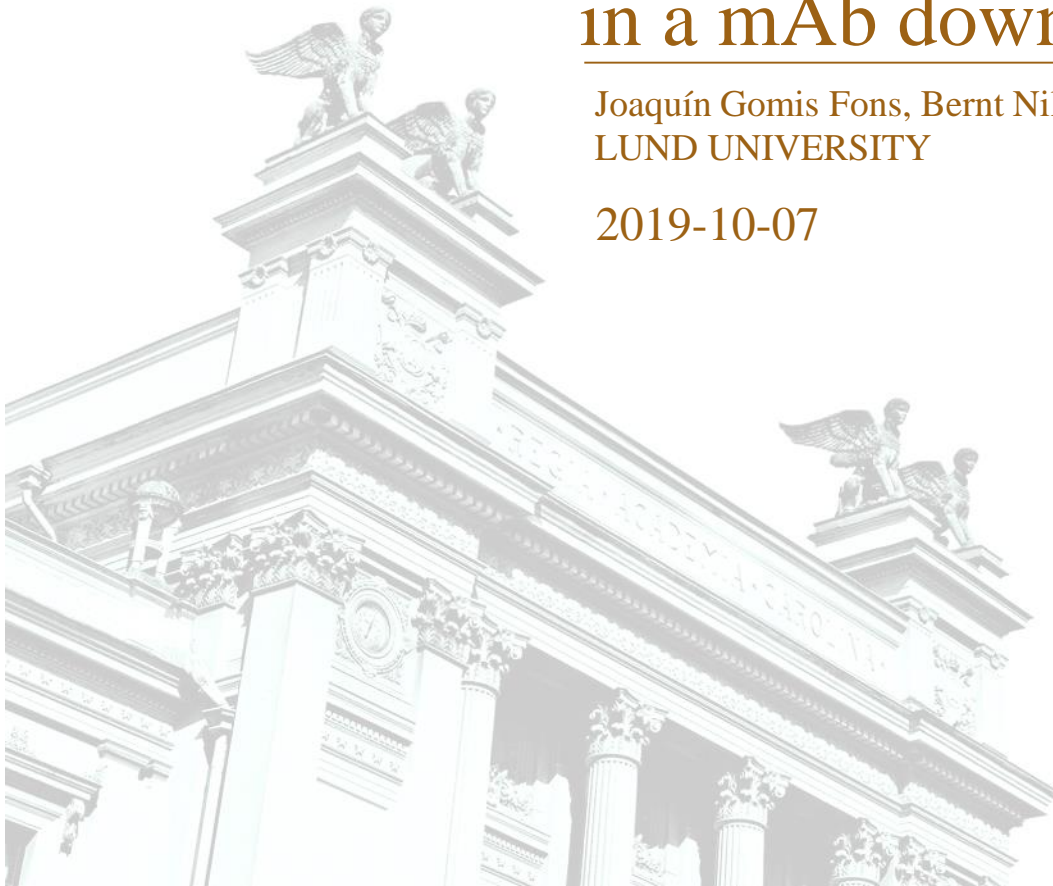
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# Optimization study on PCC integrated in a mAb downstream process

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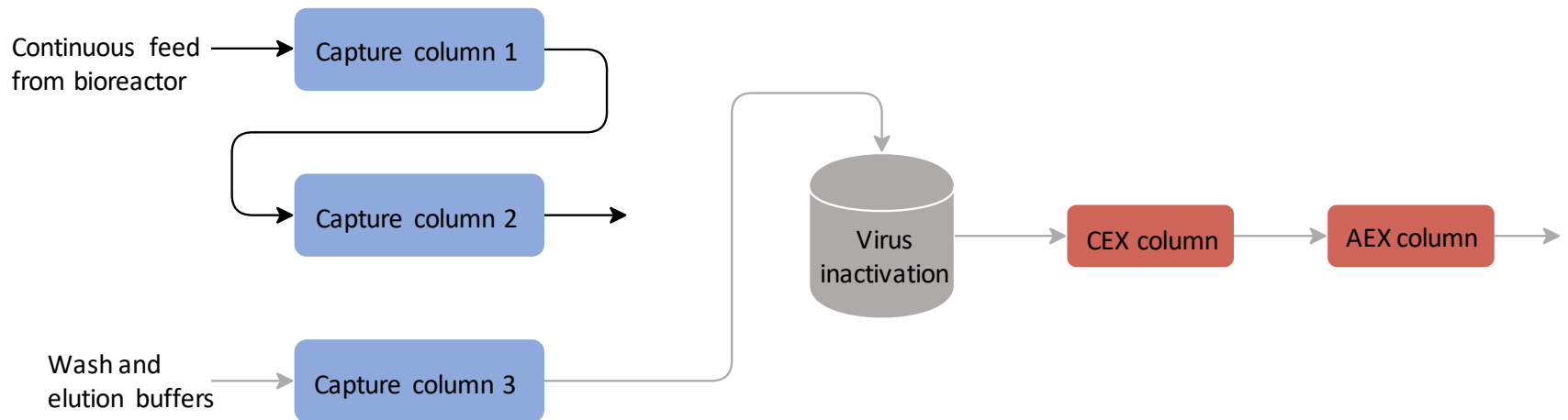
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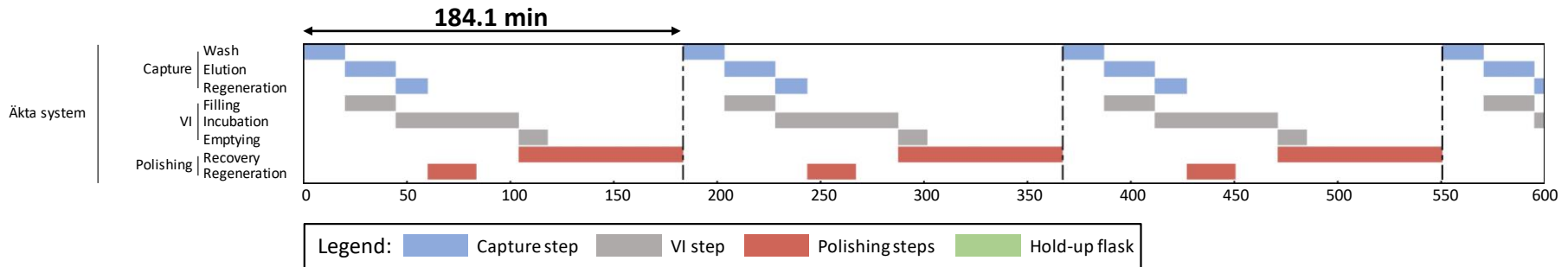
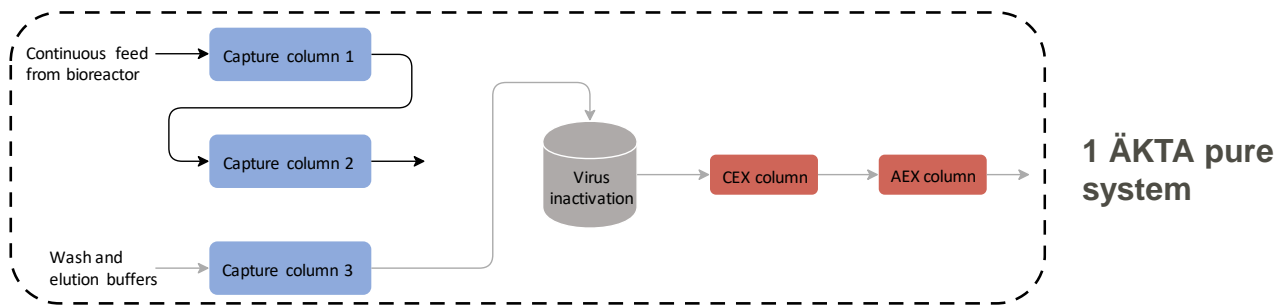
# PCC integrated in a downstream process

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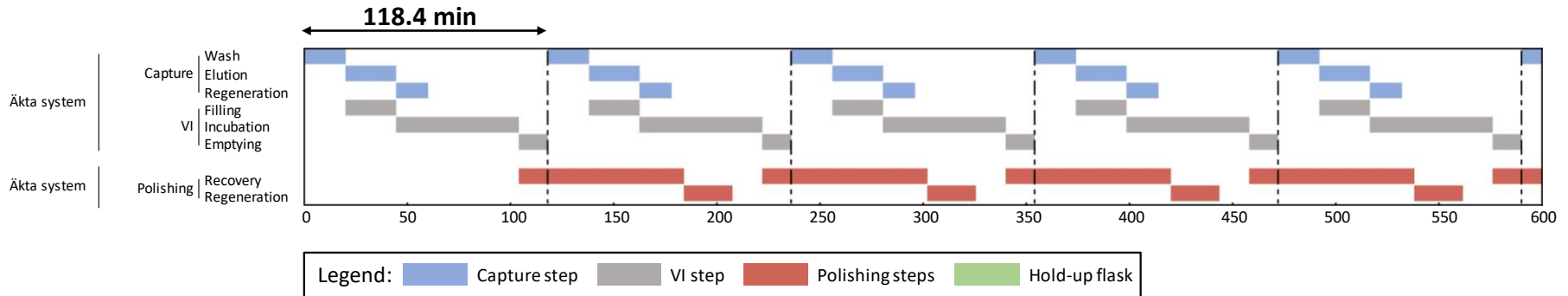
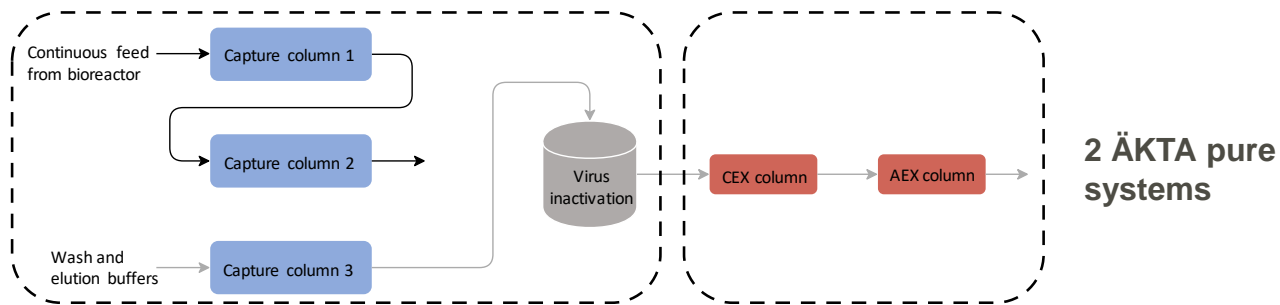
# PCC integrated in a downstream process

## 1. Integrated process in one chromatography system



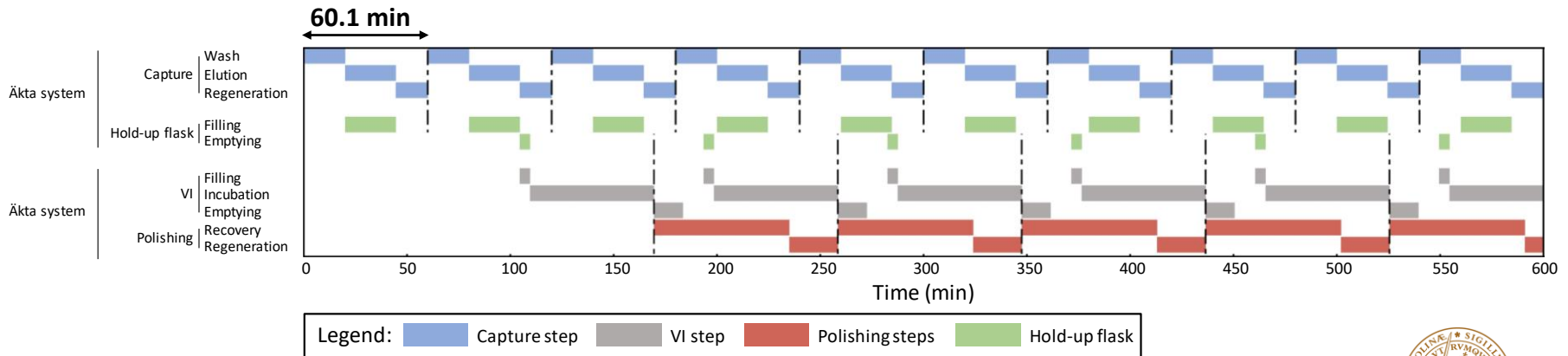
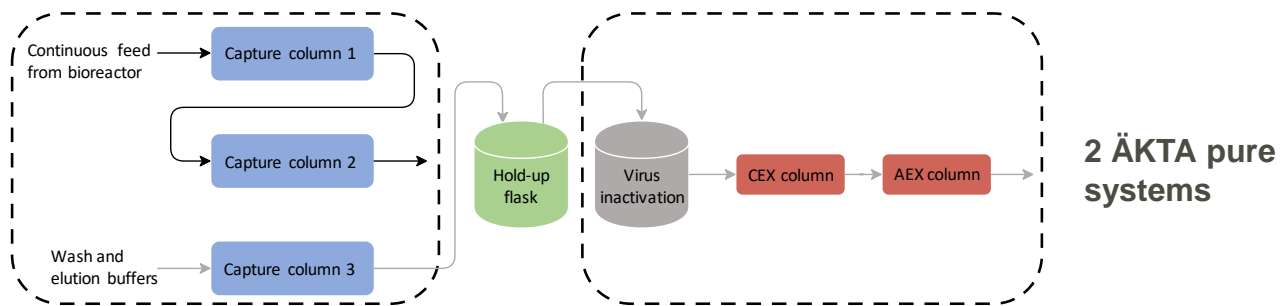
# PCC integrated in a downstream process

## 2. Integrated process in two chromatography systems

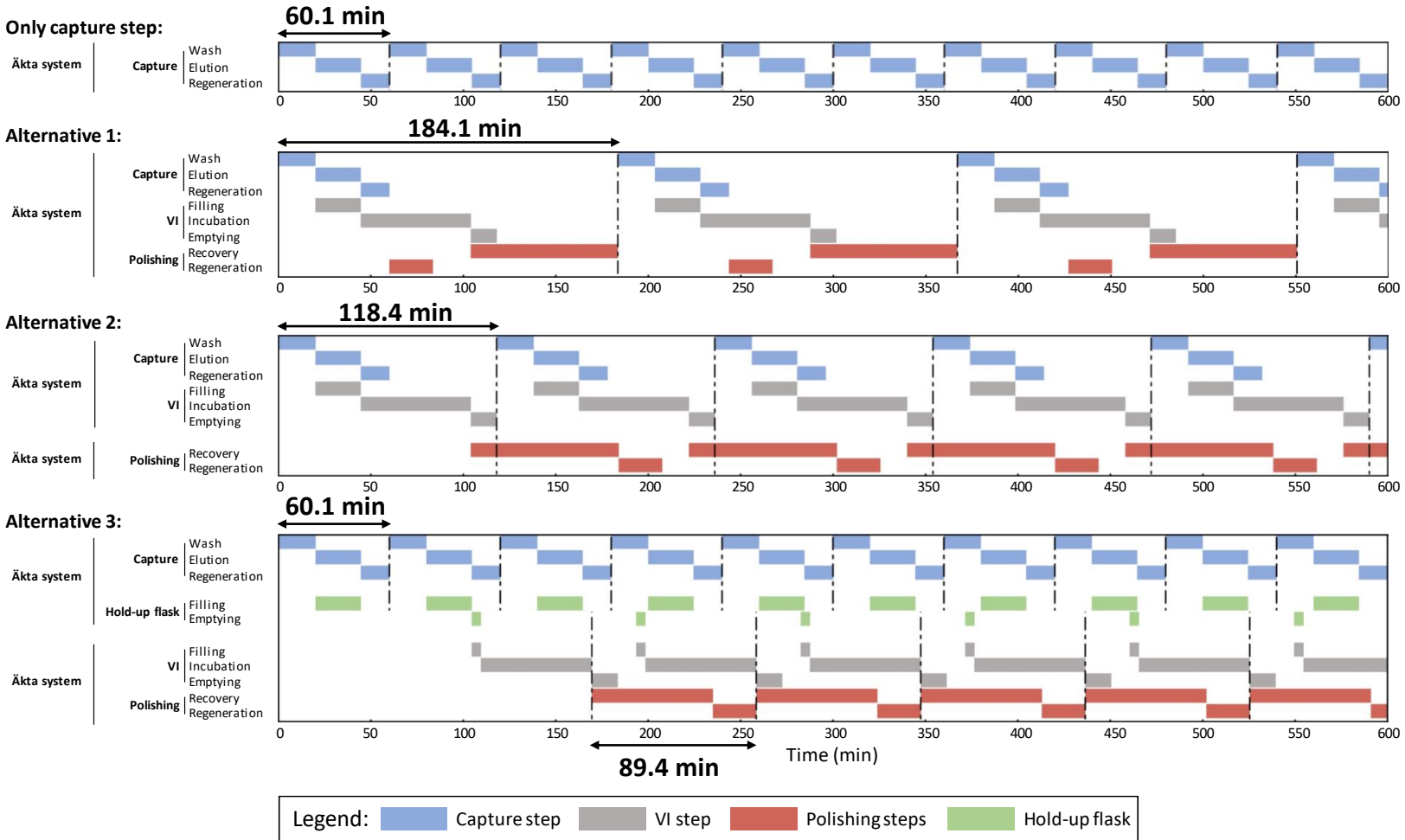


# PCC integrated in a downstream process

## 3. Process with a hold-up flask in two chromatography systems



# PCC integrated in a downstream process



# Optimization of the PCC process

