

Partner Name	Partner Type	Supervisor	Country	Project Role Description – PhD 6
Corbion	Industry <i>*ESR Host Location</i>	Harald Ruijsenaars	Netherlands	<p>Fermentative lactate production from lignocellulosic feedstocks by a thermophilic microorganism</p> <p>This project will focus on lactic acid production from C5 and C6 sugars using a thermophilic microorganism. Corbion has developed a lactate-producing thermophilic strain capable of fermenting both C5 and C6 sugars from lignocellulosic biomass. Large-scale fermentations have confirmed the economic potential of these production strains using lignocellulosic hydrolysates. Carbon catabolite repression preventing optimal C5 co-utilization is observed in the thermophilic strain. Therefore, alleviating the carbon catabolite repression will be a first target. To optimize sugar hydrolysis efficiency of selected feedstocks the strain's hemicellulolytic activity will be expanded and/or cellulolytic activity will be introduced. Finally, the project will focus on optimizing the fermentation process for production of lactic acid from a variety of streams containing waste sugars, such as lignocellulosic feedstocks or food waste. At proven potential, the process may be scaled up to pilot scale.</p>
WAGENINGEN	Academic	Richard Van Kranenburg	Netherlands	

The ESR will be employed and hosted by Corbion (Gorinchem, Netherlands) . Any queries on this post please contact Talent4BBI@biorbic.com

ESR's Recruitment Timeline Process										
M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13
Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
Recruitment Call Open and Applications Assessed						Interviews	ESR's hired, move to hosts. Fellowships commence			
Month 13 - Month 60 - Fellowship Implementation										

