BIO335 - Applied Biocatalysis and Biorefining

For NMBU students and BioCat students (https://biocat.no/)

Place: NMBU, room TF3-102: <u>TF3-102</u>, <u>TF fløy3</u>, <u>NMBU - MazeMap</u>

Time: August 21-25, 2023

Lecture plan 2023 -draft

Monday August 21

09.15-10.00	Svein Horn – Welcome and Introduction to the course
10.15-12.00	<u>Vincent Eijsink</u> – Enzymology
12.00-13.15	Lunch on your own
13.15-15.00	Svein Horn – lignocellulosic biomass- composition and analysis

Tuesday August 22

<u>Aniko Varnai</u> – Pretreatment and enzymatic degradation of lignocellulosic biomass
Sabina Leanti La Rosa - Where do biocatalysts come from?
Lunch on your own
Svein Jarle Horn – Fermentation processes – Whole cell biocatalysts

Wednesday August 23

08.15-10.00	Svein Horn - Fermentation -research examples from NMBU
10.15-12.00	<u>Svein Horn</u> –Biogas production – microbial communities as biocatalysts
12.00-13.15	Lunch on your own
13.15-15.00	<u>Dana Byrtusova (</u> Realtek) – Microbial oils

Thursday August 24

08.15-10.00	<u>Duncan Akporiaye</u> (SINTEF) - Techno-economic aspects and non-biological biorefining
tools	
10.15-12.00	Vera Novy (Borregaard) - The role of biocatalysis in biorefining
12.00-13.15	Lunch on your own
13.15-15.00	Arild Johannessen (G2F) – Gas fermentation

Friday August 25

08:15-10.00	<u>Paulo Teixeira</u> (Mycorena, Sweden) – Mycoprotein: A sustainable and versatile food	
solution (Online)		
10.15-12.00	Marije Oostindjer (Norilia) - Implementing enzymatic hydrolysis of rest raw materials	
from meat		
12.00-13.15	Lunch on your own	
13.15-14.00	Svein Horn – Summary, student assignment, Q&A	

Deadline for completing student assignment: November 20th 2023