

Biofilm course 2019		
Course Programme		
Thursday 24 October		
12:00	Welcome and introduction to course	Thomas Bjarnsholt
12:15	Basic biofilm knowledge and <i>in vitro</i> biofilm models	Kasper Nørskov Kragh & Yijuan Xu
13:00	Culture based methods, microscopy, sequencing technologies	Thomas Bjarnsholt & Trine Rolighed Thomsen
	The role of biofilms in chronic infections	Thomas Bjarnsholt & Trine Rolighed Thomsen
14:00	Coffee and briefing on exercises (teams of 2 or 3 will be doing exercises together)	
14:30	Practical sessions: - Casting of semi solid gels with serum, blood and meat powder and preparation of wound model - Application of antimicrobials (incl. dressings) to biofilm model for microscopy (BYO!) - Sonication, serial dilution and spread plating biofilms for viable counts (premade by instructors, please send antimicrobials before the course if you want quantitative evaluation)	
17:30-18:00	Legislation, claims and standardized methods	Helle Stendahl Andersen
18:00-22:00	Dinner	

Friday 25 October		
09:00	Morning coffee	
09:15-10:00	Biofilms in wounds, the clinical perspective	Klaus Kirketerp-Møller
10:00-11:00	Evaluation of <i>in vitro</i> and <i>in vivo</i> models, pros and cons	Thomas Bjarnholt
	What can we learn from using transcriptomics and metabolomics technologies?	Blaine Fritz & Yijuan Xu
11:00	Practical sessions:	
	Staining of bacterial biofilms in wound section (PNA FISH and DAPI) and semi solid biofilms (Syto 9 and PI)	
	Quantitative evaluation of plates	
	Microscopy of stained wound and Semi-solid biofilms	
	Qualitative analysis of filter biofilm	
12:00	Lunch	
12.45	Continuation of practical sessions	
14:15	Coffee Break	
14:30	Discussion of results and sum up	
15:00	End of course	
		Thomas Bjarnholt, Trine Rolighed Thomsen, Blaine Fritz, Jan Lorenzen, Kasper Nørskov Kragh & Yijuan Xu will assist during the course