

# MF9120 Introduction to Infectious Disease Modelling: Concepts and Applications PROGRAMME

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**Location :** Domus Odontologica, Sognsvannsveien 10

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## Wednesday 8.11.2017: BASIC METHODS FOR INFECTIOUS DISEASE MODELS

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<b>Location:</b>	<b>A1.1001 Store Auditorium, Domus Odontologica</b>		
<b>08:45-09:15</b>	<b>Registration</b>		
<b>09:15-10:00</b>	<b>Introduction</b>	General introduction	(BFdB)
<b>10:00-10:10</b>	<b>Coffee break</b>		
<b>10:10-11:00</b>	<b>Lecture</b>	Basic concepts I, R_0	(BFdB)
<b>11:00-11:10</b>	<b>Break</b>		
<b>11:10-12:00</b>	<b>Lecture</b>	Basic concepts II: SEIR	(GST)
<b>12:00-13:00</b>	<b>Lunch</b>		
<b>13:00-13:50</b>	<b>Lecture</b>	Basic concepts III: Some interesting consequences of simple models	(GST)
<b>13:50-14:00</b>	<b>Coffee break</b>		
<b>14:00-15:30</b>	<b>Group session</b>	<b>SIR practical in Excel</b>	
<b>15:30-15:45</b>	<b>Summary discussion</b>		

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## Thursday 9.11.2017: INTERVENTION STRATEGIES AND EFFECTS

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<b>Location:</b>	<b>A1.1004 Lille Auditorium, Domus Odontologica</b>		
<b>09:10-10:00</b>	<b>Lecture</b>	Intervention strategies – an overview	(BFdB)
<b>10:00-10:10</b>	<b>Coffee break</b>		
<b>10:10-11:00</b>	<b>Lecture</b>	Vaccination	(BFdB)
<b>11:00-11:10</b>	<b>Break</b>		
<b>11:10-12:00</b>	<b>Lecture</b>	Beyond the SEIR model - useful extensions of the basic model	(GST)
<b>12:00-13:00</b>	<b>Lunch</b>		
<b>13:00-13:50</b>	<b>Lecture</b>	Statistical inference on model parameters	(GST)
<b>13:50-14:00</b>	<b>Coffee break</b>		
<b>14:00-15:30</b>	<b>Group session</b>	<b>SIR practical in Excel</b>	
<b>15:30-15:45</b>	<b>Summary discussion</b>		

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## Friday 10.11.2017: HOST HETEROGENEITIES

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<b>Location:</b>	<b>A1.1004 Lille Auditorium, Domus Odontologica</b>		
<b>09:10-10:00</b>	<b>Lecture</b>	Contact structure; sexually transmitted infections	(BFdB)
<b>10:00-10:10</b>	<b>Break</b>		
<b>10:10-11:00</b>	<b>Lecture</b>	Effects of variable infectivity: super spreaders	(BFdB)
<b>11:00-11:10</b>	<b>Break</b>		
<b>11:10-12:00</b>	<b>Lecture</b>	Mixing POLYMOD study	(GST)
<b>12:00-13:00</b>	<b>Lunch</b>		
<b>13:00-13:50</b>	<b>Lecture</b>	The swine flu pandemic in Norway	(GST)
<b>13:50-14:00</b>	<b>Coffee break</b>		
<b>14:00-15:30</b>	<b>Group work</b>	<b>Karhunen et al. Varicella vaccination</b>	
<b>15:30-15:45</b>	<b>Concluding discussion</b>		