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# host-parasite coevolution

**DFG Priority Programme 1399**  
**Rapid Reciprocal Adaptation and its Genetic Basis**

*4<sup>th</sup> Symposium 29<sup>th</sup> September - 02<sup>nd</sup> October 2014*  
*Noer, Germany*

MONDAY 29<sup>TH</sup>

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PROGRAMME	<b>19:30 - 21:00</b>	<i>Dinner</i>
	<b>21:00 -</b>	Welcome Joachim Kurtz, Thorsten Reusch & Hinrich Schulenburg

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<b>08:00 - 09:00</b>	<i>Breakfast</i>	<b>11:30 - 11:45</b>	<b>Jingtao Lilue</b> Host-parasite co-evolution: virulence and resistance polymorphism
<b>Chair:</b>	Thorsten Reusch		
<b>09:00 - 09:45</b>	<b>David Thieltges (invited)</b> Parasites in food webs: from consumers to resources	<b>11:45 - 12:00</b>	<b>Urs Benedikt Müller</b> Polymorphism in the IRG resistance system determines virulence of <i>Toxoplasma gondii</i> in mice
<b>09:45 - 10:00</b>	<b>Christophe Eizaguirre</b> Infected or not - why?	<b>12:00 - 13:30</b>	<i>Lunch</i>
<b>10:00 - 10:15</b>	<b>Franziska Brunner</b> Host-parasite interactions: from genes to ecosystem consequences	<b>Chair:</b>	Robin Moritz
<b>10:15 - 10:30</b>	<b>Marieke Feis</b> Transcriptomics of two invasive copepod parasites	<b>13:30 - 14:15</b>	<b>Kayla King (invited)</b> Killers and protectors in host-parasite communities
<b>10:30 - 11:00</b>	<i>Coffee break</i>	<b>14:15 - 14:30</b>	<b>Gerrit Joop</b> Chemical warfare no solution against parasite attack: <i>Tribolium castaneum</i> vs. <i>Beauveria bassiana</i>
<b>Chair:</b>	Sophie Armitage	<b>14:30 - 14:45</b>	<b>Andreas Vilcinskis</b> Coevolution between parasitic fungi and their host insects
<b>11:00 - 11:15</b>	<b>Joern Peter Scharsack</b> Comparison of liver whole transcriptome data with immune and body condition parameters of three-spined sticklebacks during infection with the tapeworm <i>Schistocephalus solidus</i>	<b>14:45 - 15:00</b>	<b>Christoph Kurze</b> Escaping parasite manipulation: Apoptosis and host-parasite co-evolution in <i>Apis mellifera</i>
<b>11:15 - 11:30</b>	<b>Luke Phelps</b> Identifying the Genes Behind Virulence Mismatches in the <i>Schistocephalus solidus</i> -stickleback system	<b>15:00 - 15:30</b>	<i>Coffee break</i>

TUESDAY 30<sup>TH</sup>

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PROGRAMME

**15:30 - 16:15** SPP Discussion

**Chair:** Martin Kalbe

**16:15 - 17:00** Eva Stukenbrock (invited)  
TBA

**17:00 - 19:00** Poster Session

**19:00 - 20:30** *Dinner*

<b>08:00 - 09:00</b>	<i>Breakfast</i>	<b>11:30 - 11:45</b>	<b>Andrei Papkou</b> The influence of population size on host-parasite coevolution
<b>Chair:</b>	Joachim Kurtz	<b>11:45 - 12:00</b>	<b>Joachim Kurtz</b> Routes of infection and immune priming in <i>Tribolium castaneum</i>
<b>09:00 - 09:45</b>	<b>Francis Jiggins (invited)</b> The Evolution and Genetics of Pathogen Host Switching	<b>12:00 - 13:30</b>	<i>Lunch</i>
<b>09:45 - 10:00</b>	<b>Dieter Ebert</b> Population genetics of coevolution	<b>13:30 - 16:00</b>	<i>Freetime activity</i>
<b>10:00 - 10:15</b>	<b>Gunther Jansen</b> The route from pathogen to commensalist requires fitness gains through virulence attenuation	<b>16:00 - 16:30</b>	<i>Coffee break</i>
<b>10:15 - 10:30</b>	<b>Enrique Gonzalez-Tortuero</b> Verification of quantitative results obtained by Next Generation Sequencing: Case study on ITS1 sequence variation in a microparasite infecting <i>Daphnia</i>	<b>Chair:</b>	Hinrich Schulenburg
<b>10:30 - 11:00</b>	<i>Coffee break</i>	<b>16:30 - 16:45</b>	<b>Olivia Roth</b> Sex roles and immune defence
<b>Chair:</b>	Arndt Telschow	<b>16:45 - 17:00</b>	<b>Carolin Wendling</b> You can't always get what you want – The trade-off to being a host and a parasite simultaneously
<b>11:00 - 11:15</b>	<b>Heiko Liesegang</b> Genomics of BT	<b>17:00 - 17:15</b>	<b>Mathias Wegner</b> Genomics of local adaptation in <i>Vibrio app.</i>
<b>11:15 - 11:30</b>	<b>Jacqueline Hollensteiner</b> RNA-seq and Genomics of BT in vitro and in infection	<b>17:15 - 18:00</b>	<b>Sylvia Cremer (invited)</b> Pathogen adaptation to individual and social immunity in ants
		<b>18:00 -</b>	<i>Barbecue</i>

THURSDAY 02<sup>ND</sup>

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PROGRAMME	<b>07:00 - 09:00</b>	<i>Breakfast</i>
		<i>Departure</i>