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For Attendees

The GRC Organization

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Tuberculosis Drug Discovery & Development

Gordon Research Conference

New Approaches, New Chemical Entities and New Targets for Tuberculosis Drugs

Dates

June 25-30, 2017

Location

Renaissance Tuscany Il Ciocco
Lucca (Barga), Italy
[Site Information](#)

Organizers

Chairs:

[Courtney C. Aldrich](#) & [Tanya Parish](#)

Vice Chairs:

[Lluís Ballell-Pages](#) & [Helena I. Boshoff](#)

Meeting Links

- [Online Application](#)
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Site & Travel Links

Registration Fees

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Application Deadline

This meeting is currently oversubscribed (full). You may still submit an application. However, it will only be considered by the Conference Chair if more seats become available due to cancellations.

Meeting Description

The 2017 Conference on Tuberculosis Drug Discovery and Development will explore the entire process of drug discovery from clinical development of new drugs for tuberculosis (TB) to the underlying biology of *Mycobacterium tuberculosis* that impacts drug discovery efforts. The conference will address the unique challenges in TB drug discovery through discussion of clinical trial design, complimentary approaches to identification of lead compounds, vulnerable targets and pathways, host-directed therapies, and non-traditional approaches to TB prevention and treatment. We invite researchers interested in all aspects of drug discovery and development and welcome participants from academia, industry, government and non-governmental organizations. In particular, we invite trainees and scientists from TB-endemic countries to apply, as their contribution to the struggle against TB is especially important. All participants are asked to submit abstracts of their work for presentation as posters, and some abstracts will be chosen for oral presentations. The conference provides the opportunity to interact with colleagues in an informal and intimate atmosphere and is designed to promote extensive discussion. In the past, the meeting has been oversubscribed – please apply early!

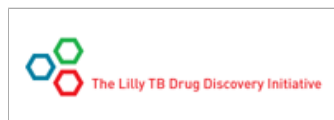
Related Meeting



This GRC will be held in conjunction with the "Tuberculosis Drug Discovery & Development" Gordon Research Seminar (GRS). Those interested in attending both meetings must submit an application for the GRS in addition to an application for the GRC. Refer to the [associated GRS program page](#) for more information.

Contributors





Meeting Program

Sunday

- 4:00 pm - 8:00 pm Arrival and Check-in
- 6:00 pm Dinner
- 7:30 pm - 7:40 pm Welcome / Introductory Comments by GRC Site Staff
- 7:40 pm - 9:30 pm **Keynote Session: The Need for New Drugs Against Tuberculosis**
Discussion Leader: **Tanya Parish** (Infectious Disease Research Institute, USA)
- 7:40 pm - 7:50 pm Opening Remarks
- 7:50 pm - 8:00 pm Introduction by Discussion Leader
- 8:00 pm - 8:40 pm **Graeme Meintjes** (University of Cape Town, South Africa)
"New Drugs for TB: Clinical and Programmatic Needs and Challenges"
- 8:40 pm - 8:45 pm Discussion
- 8:45 pm - 9:25 pm **Valerie Mizrahi** (Institute of Infectious Disease and Molecular Medicine, South Africa)
"Harnessing Biological Insight to Accelerate TB Drug Discovery"
- 9:25 pm - 9:30 pm Discussion

Monday

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 12:30 pm **Challenges in Clinical Trials and Biomarkers for Tuberculosis**
Discussion Leader: **Anna Upton** (TB Alliance, USA)
- 9:00 am - 9:05 am Introduction by Discussion Leader
- 9:05 am - 9:30 am **Bruce Thomas** (The Arcady Group, USA)
"New Facts Regarding, and Novel Approaches to, TB Treatment Adherence: Implications for Clinical Practice and Drug Development"
- 9:30 am - 9:40 am Discussion
- 9:40 am - 10:05 am **Gerhard Walzl** (Stellenbosch University, South Africa)
"Developing Treatment Response Biomarkers"
- 10:05 am - 10:15 am Discussion
- 10:15 am - 10:40 am Coffee Break
- 10:40 am - 11:05 am **Debra Hanna** (Critical Path Institute, USA)
"Critical Path to TB Drug Regimens: Integrating Data to Drive Innovation in Translational Science for TB Drug Regimen Development"
- 11:05 am - 11:15 am Discussion
- 11:15 am - 11:40 am **Gerry Davies** (University of Liverpool, United Kingdom)
"PreDiCT-TB: Learning from Preclinical Data"
- 11:40 am - 11:50 am Discussion
- 11:50 am - 12:15 pm **Rada Savic** (University of California, San Francisco, USA)

"One Treatment Regimen Does Not Fit All - Use of Data Science to Guide TB Patient Stratification"

12:15 pm - 12:25 pm Discussion

12:25 pm - 12:30 pm General Discussion

12:30 pm Lunch

1:30 pm - 4:30 pm Free Time

4:30 pm - 6:00 pm [Poster Session](#)

6:00 pm - 8:00 pm

Lead Optimization and Clinical EvaluationDiscussion Leader: **Lluís Ballell-Pages** (GlaxoSmithKline, Spain)

6:00 pm - 6:05 pm Introduction by Discussion Leader

6:05 pm - 6:30 pm **Nader Fotouhi** (TB Alliance, USA)

"Towards Safer Oxazolidinones as Components of Universal Regimens for TB"

6:30 pm - 6:40 pm Discussion

6:40 pm - 7:05 pm

Vadim Makarov (A.N. Bach Institute of Biochemistry, Russian Academy of Sciences, Russia)

"Clinical Trials with the Novel Drug Candidate PBTZ169"

7:05 pm - 7:15 pm Discussion

7:15 pm - 7:40 pm

David Barros (GlaxoSmithKline R&D, Spain)

"New Clinical Candidates for TB Treatment"

7:40 pm - 7:50 pm Discussion

7:50 pm - 8:00 pm

General Discussion

8:00 pm

Dinner

Tuesday

7:30 am - 8:30 am Breakfast

8:30 am Group Photo

9:00 am - 12:30 pm

Hit-to-Lead Optimization and Pharmacokinetics in Early Drug DiscoveryDiscussion Leader: **Kelly Chibale** (Institute of Infectious Disease and Molecular Medicine, South Africa)

9:00 am - 9:10 am Introduction by Discussion Leader

9:10 am - 9:35 am

Jeffrey Aube (University of North Carolina at Chapel Hill, USA)

"Seeking TB-Active Cephalosporins"

9:35 am - 9:45 am Discussion

9:45 am - 10:10 am

Sylvie Garneau-Tsodikova (University of Kentucky, USA)

"Novel Aminoglycoside Adjuvants and Stand-Alone Agents to Combat Tuberculosis"

10:10 am - 10:20 am Discussion

10:20 am - 10:50 am Coffee Break

10:50 am - 11:15 am

Jason Sello (Brown University, USA)

"Beyond the Conventional: Novel Molecules and Strategies for the Treatment of Tuberculosis"

11:15 am - 11:25 am Discussion

11:25 am - 11:50 am

Benoit Deprez (Institut Pasteur, France)

"Outsmarting Resistance in Tuberculosis SMART Compounds: From Lead to Drug Candidate"

11:50 am - 12:00 pm Discussion

12:00 pm - 12:15 pm

Short Talk Selected from Poster Abstracts

12:15 pm - 12:20 pm Discussion

12:20 pm - 12:30 pm

General Discussion

12:30 pm Lunch

1:30 pm - 4:30 pm Free Time

4:30 pm - 6:00 pm

[Poster Session](#)

6:00 pm - 8:00 pm

Natural Products in Antibacterial DiscoveryDiscussion Leader: **Ronald Quinn** (Griffith University, Australia)

6:00 pm - 6:05 pm

Introduction by Discussion Leader

6:05 pm - 6:30 pm	Sean Brady (Rockefeller University, USA) "Culture Independent Approaches for the Discovery of New Antibiotics"
6:30 pm - 6:40 pm	Discussion
6:40 pm - 7:05 pm	Late-Breaking Topic
7:05 pm - 7:15 pm	Discussion
7:15 pm - 7:40 pm	Nathan Magarvey (McMaster University, Canada) "Clustering and Assembly of Genetically Inferred Antibiotics"
7:40 pm - 7:50 pm	Discussion
7:50 pm - 8:00 pm	General Discussion
8:00 pm	Dinner

Wednesday

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Metabolism as a Target Discussion Leader: Luiz Pedro Carvalho (Francis Crick Institute, United Kingdom)
9:00 am - 9:05 am	Introduction by Discussion Leader
9:05 am - 9:35 am	Laura Kiessling (University of Wisconsin-Madison, USA) "Chemical Probes of Cell Envelope Biosynthesis"
9:35 am - 9:45 am	Discussion
9:45 am - 10:10 am	Lindsay Eltis (University of British Columbia, Canada) "Cholesterol Catabolism - A Ring-Side Seat"
10:10 am - 10:20 am	Discussion
10:20 am - 10:50 am	Coffee Break
10:50 am - 11:15 am	Anthony Baughn (University of Minnesota, USA) "Stress Response as a Driver of Pyrazinamide Susceptibility"
11:15 am - 11:25 am	Discussion
11:25 am - 11:50 am	Nagasuma Chandra (Indian Institute of Science, India) "Reversing Antibiotic Resistance Through Strategic Combinations"
11:50 am - 12:00 pm	Discussion
12:00 pm - 12:15 pm	Short Talk Selected from Poster Abstracts
12:15 pm - 12:20 pm	Discussion
12:20 pm - 12:30 pm	General Discussion
12:30 pm	Lunch
1:30 pm - 4:30 pm	Free Time
4:30 pm - 6:00 pm	<u>Poster Session</u>
6:00 pm - 8:00 pm	Promiscuous Targets, Drugs, and Hits Discussion Leader: Kevin Pethe (Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore)
6:00 pm - 6:05 pm	Introduction by Discussion Leader
6:05 pm - 6:30 pm	Jonathan Baell (Monash University, Australia) "Resource-Wasting Pan Assay Interference Compounds (PAINS): Readily Found in Any Screen and Highly Relevant to TB Drug Discovery"
6:30 pm - 6:35 pm	Discussion
6:35 pm - 6:50 pm	Short Talk Selected from Poster Abstracts
6:50 pm - 6:55 pm	Discussion
6:55 pm - 7:20 pm	Adrie Steyn (Kwazulu-Natal Research Institute for Tuberculosis and HIV (K-RITH), South Africa) "Bioenergetic Rewiring: Turning the Respiratory Flexibility of <i>M. tuberculosis</i> Against Itself"
7:20 pm - 7:25 pm	Discussion
7:25 pm - 7:50 pm	Mary Jackson (Colorado State University, USA) "MmpL3: Therapeutic Potential and Mechanism of Inhibition"
7:50 pm - 7:55 pm	Discussion

7:55 pm - 8:00 pm General Discussion

8:00 pm Dinner

Thursday

7:30 am - 8:30 am Breakfast

8:30 am - 9:00 am Business Meeting

Nominations for the Next Vice Chair; Fill in Conference Evaluation Forms; Discuss Future Site and Scheduling Preferences; Election of the Next Vice Chair

9:00 am - 12:30 pm

Host-Directed Therapies and Host-Pathogen InteractionsDiscussion Leader: **Gilla Kaplan** (Bill & Melinda Gates Foundation, USA)

9:00 am - 9:10 am Introduction by Discussion Leader

9:10 am - 9:35 am **Priscille Brodin** (Institut Pasteur de Lille, France)"Investigation of a Drug Candidate with Enhanced Potency Against Intracellular *M. tuberculosis*"

9:35 am - 9:45 am Discussion

9:45 am - 10:10 am **Robert Abramovitch** (Michigan State University, USA)"Small Molecules that Inhibit *Mycobacterium tuberculosis* Environmental Sensing and Virulence"

10:10 am - 10:20 am Discussion

10:20 am - 10:50 am Coffee Break

10:50 am - 11:05 am Short Talk Selected from Poster Abstracts

11:05 am - 11:10 am Discussion

11:10 am - 11:35 am Late-Breaking Topic

11:35 am - 11:45 am Discussion

11:45 am - 12:10 pm **Thomas Hawn** (University of Washington, USA)

"Host-Directed Therapies in Macrophages and TB"

12:10 pm - 12:20 pm Discussion

12:20 pm - 12:30 pm General Discussion

12:30 pm Lunch

1:30 pm - 4:30 pm Free Time

4:30 pm - 6:00 pm Poster Session

6:00 pm - 8:00 pm

Outside the Norm: Non-Traditional ApproachesDiscussion Leader: **Helena Boshoff** (National Institutes of Health, USA)

6:00 pm - 6:05 pm Introduction by Discussion Leader

6:05 pm - 6:30 pm Late-Breaking Topic

6:30 pm - 6:40 pm Discussion

6:40 pm - 7:05 pm **Nitin Baliga** (Institute for Systems Biology, USA)

"Network Strategy to Accelerate Discovery of Combination Therapy Against Drug Resistance in TB"

7:05 pm - 7:15 pm Discussion

7:15 pm - 7:40 pm **Giulia Manina** (Institut Pasteur, France)

"Targeting Phenotypic Variation in Mycobacteria to Improve Drug-Mediated Killing"

7:40 pm - 7:50 pm Discussion

7:50 pm - 8:00 pm Closing Remarks

8:00 pm Dinner

Friday

7:30 am - 8:30 am Breakfast

9:00 am Departure

Funding for this conference was made possible [in part] by 1 R13 AI 131575 - 01 from the National Institute of Allergy and Infectious Diseases. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government.

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