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CONTINUING MEDICAL EDUCATION

Boronic Acid Inhibitors of β -lactamases: A Promising Strategy Against Antimicrobial Resistance - GHID - 2/27/2026 – 78411-76205

Date: February 27, 2026

Time: 12:00 PM-1:00 PM

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Educational Objectives

At the conclusion of this activity, the participant should be better able to:

- 1 Describe the catalytic mechanisms of serine- and metallo- β -lactamases and explain why boronic acids act as transition-state analog inhibitors.
- 2 Differentiate the major boronic-acid inhibitor chemotypes (e.g., acyclic BATSIs, cyclic boronates, benzoxaboroles) and relate scaffold features to β -lactamase class coverage (A/C/D) and key resistance liabilities.
- 3 Apply structure-activity and structural-biology insights (binding modes/active-site interactions) to evaluate which design strategies are most promising for next-generation, broader-spectrum β -lactamase inhibition.

Accreditation and Credit Designation Statements

Case Western Reserve University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Case Western Reserve University School of Medicine designates this live activity for a maximum of 1.00 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclosures:

All relevant financial relationships have been mitigated. This activity's planners and speaker(s) have made the following disclosures:

Name of individual	Individual's role in activity	Nature of Relationship(s) / Name of Ineligible Company(s)
Doug Brubaker, PhD	Course Director	Nothing to disclose - 08/06/2025
Aaron Burberry, PhD	Course Director	Nothing to disclose - 08/06/2025
Christina Farr, PhD	Course Director	Nothing to disclose - 08/07/2025
Michael Freeman, PhD	Course Director	Nothing to disclose - 08/13/2025
James Kazura, MD	Course Director	Nothing to disclose - 08/06/2025
Stephanie Langel	Course Director	Nothing to disclose - 08/13/2025

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Robert Maitta, MD, PhD	Course Director	Honoraria-Sanofi-Aventis (Relationship has ended) - 09/04/2025
Eric Ransom, PhD	Course Director	Grant or research support- bioMerieux Consulting Fee- Cytovale Grant or research support- Pattern Bioscience - 08/06/2025
Nicolò Santi, Other	Faculty	Nothing to disclose - 01/05/2026
Akram Shalaby, MD	Course Director	Nothing to disclose - 08/13/2025