Heterocycles in Medicinal Chemistry (16:663:506)

Spring 2018

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Schedule:  Monday, Wednesday, 8:15 – 9:35 AM, PH 323A


Grading:  Grades will be based on four exams (400 points), attendance/punctuality (10 points), and preparedness (20 points) and class participation (20 points) for a total of 450 points.

Topics:

1. Introduction
2. Aromatic Heterocycles
3. General Methods for the Synthesis of Heterocycles
4. Pyridines
5. Quinolines and Isoquinolines
6. Diazines, Triazines, and Tetrazines
7. Pyryliums, Benzopyryliums, Pyrones, and Benzopyrones
8. Pyrroles, Furans, and Thiophenes
9. Indoles, Benzofurans, Benzo thiophenes, Isoindoles, Isobenzofurans, and Benzo[c] thiophenes
10. 1,3-Azoles and 1,2-Azoles
11. Benzannelated Azoles
12. Purines
13. Non-Aromatic Heterocycles (3-, 4-, 5-, 6-, and 7-membered rings)

Please come to class prepared by reading the appropriate assignments (see lecture schedule) PRIOR to lecture.

Attendance is mandatory and punctuality is appreciated.