**CSB 452H1F – Molecular INTERACTIONS BETWEEN PLANTS, MOCROORGANISMS AND PARASITIC PLANTS**

24L

**Lecturers:**

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**Prerequisite**: BCH 311H1/CSB 349H1/MGY 311Y1

**Recommended Preparation:** CSB 353H1

This course explores the strategies that plants have evolved to defend themselves against microbes and other parasitic plants. The course consists of two sections; 1. Plant-pathogenic microbe interactions and 2. Plant-plant parasite interactions. The first section focuses on an in-depth discussion about on-going research of plant immunity against pathogenic microbes. The second section introduces plant-parasitic plant relationships with an emphasis on signaling pathways that underlie these interactions and discusses how basic knowledge of the lifestyle of parasitic plants could contribute to agricultural solutions in the developing world.

For presentation training, a group oral presentation (2-4 students) will be included.

**Required Text**: None. Readings will be from scientific literature.

**Evaluation**:

First term Term Test – 30%

Second term Term Test – 30%

Group Presentation – 30% (15% oral presentation, 5% written summary)

Participation and Discussion (10%)