

Research Interests of Faculty Members in the Organic Division - Department of Chemistry

1. Professor Thies Thiemann

- a. Thiophenes and thiophene S-oxides
- b. Steroids as ligands for breast cancer diagnostics
- c. C-C coupling reactions
- d. Green chemistry, including decomposition of toxic materials
- e. Reactivity of aryl chromium complexes

2. Dr. Ibrahim Abdou

- a. Design and Synthesis of Novel Nucleosides & Nucleotides as *Anti-Cancer* Drugs
- b. Charge-Transfer in DNA
- c. Drug-DNA Interactions and Analysis

3. Dr. Mohamed AI Azab

- a. Synthesis and characterization of organic Polymers
- b. Oil spill treatment
- c. Polyaromatic compounds and their uses as biomarkers

4. Dr. Soleiman Hisaindee

- a. Synthesis of bioactive natural products
- b. Asymmetric C-C bond formation
- c. Development of reagents for analytical chemistry

5. Dr. Mohamed Khasawneh

- a. Natural Products Isolation and synthesis
- b. Molecularly Imprinted Polymers
- c. Chemical Education
- d. Molecular Recognition

6. Dr. Haythem Ali Saadeh

- a. The design, synthesis and bioactivity of novel derivatives for known drugs.
- b. The design, synthesis and bioactivity of novel materials.
- c. The design and synthesis of new photovoltaic materials.
- d. The design and synthesis of new NLO optical materials.
- e. The design and synthesis of novel chelating polymers.