

**INTRODUCTION**

Basics of respiration

Basics of respirometry

**GENERAL METHODOLOGY OF RESPIROMETRY**

Basics of respirometric methodology

Generalized principles: beyond oxygen

**EQUIPMENT**

Equipment for anaerobic respirometry

Equipment for aerobic and anoxic respirometry

**WASTEWATER CHARACTERIZATION**

Biomethane potential (BMP)

Biochemical oxygen demand (BOD)

Short-term biochemical oxygen demand (BOD<sub>st</sub>)

Toxicity and inhibition

Wastewater fractionation

**BIOMASS CHARACTERIZATION**

Volatile suspended solids

Specific methanogenic activity (SMA)

Specific aerobic and anoxic biomass activity