



LABORATORY 1

Prokaryotes

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INTRODUCTION

EVER WONDER...

- how can bacteria thrive in the near boiling water of a hot spring?
- what was in that mouthful of lake water I just swallowed in a water skiing incident?
- how are yogurt and cheese made?

In the lab portion of this course we will study 25 Representative Organisms (ROs) to obtain an overview of life on our planet. We will use each Representative Organism to study the characteristics of the major group of organisms to which it belongs. We will see what they look like, where they live, how they reproduce, how they move (if they move), and how they obtain energy. To give you a broader view of diversity, for each Representative Organism we study, we will show you a few of their "friends" (close relatives). When you take more biology courses in this Department and study *Drosophila* in BIOL 226, or fairy rings and shelf fungi in BIOL 342, or study population dynamics in grizzly bears in BIOL 363, or dissect rose flowers in BIOL 222, or do a behavior study on House Finches for BIOL 472, you'll have an appreciation of where these organisms fit in our world.

Today's lab will start with a few representative organisms and, each week, we will look at more Representative Organisms until we have covered the major groups. Some of these organisms will be familiar to you and some will be new. We will look at bacteria, protists, fungi, plants, and animals. The emphasis will be on organisms commonly found in Saskatchewan, but we will also look at a few others found elsewhere. (Appendix 1 at the end of the lab manual has a complete list of the Representative Organisms.)

As the focus in this class will be the Representative Organisms, each week you will use a Representative Organism Sheet (included at the end of each lab) for each of the organisms you will study in that lab. Your job in the lab is to glean all relevant information about each Representative Organism and its friends from information

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