**Biology for Sustainable Development**

Biology is a branch of life science - which itself is part of the natural science branch - that focuses on the study of life and living organisms of all types. It is concerned with everything involving a life form - no matter how small or large - including its structure, behavior, origin, growth, and reproduction.

Biology itself branches out into numerous different areas, each affecting the human race to some extent. Every branch of biology - whether it be botany, marine biology, or even biolmusicology to name just a few - assists scientist in helping the human race live healthier and more productive lives.

Our Health

Without biology, scientists and doctors would be hard - pressed to help people fight off and treat disease. Pharmacology - medicinal branch of biology - studies the effects of all types of medicine on the human body.

The studies within virology (study of viral disease), pathology (assists in disease diagnoses and determines cause), and immunology (studies the immune system) all work together to study the countless threats to our body. Moreover, the knowledge acquired through these studies further edify the studies of aforementioned pharmacology in treating, preventing, and curing disease - [Hepatitis C](http://medicalopedia.org/4445/fda-approves-new-drug-for-the-treatment-for-hepatitis-c/), for example. .

Fueling our Bodies

Biology provides us with knowledge of how our body works and what we can do to help it run efficiently. Whether you need to lose weight, avoid [hypertension](http://medicalopedia.org/3224/fast-foods-addiction-can-cause-you-hypertension/), or fuel your body for exercise, nutritionists are able to determine a diet that is appropriate. Without biochemistry - the branch of science that studies how your body breaks down nutrients, fats, proteins, and carbs - it would be guesswork.

Exercise and Movement

Physiologists study how muscles work and the causes of the muscular stress and how humans use oxygen during physical movement. They dive deep into dehydration studies to ensure athletes - both professional and weekend warriors - are properly hydrated.

A scientist within the field of anatomy assists professional trainers and physiotherapists in creating training methods that target the correct part of the body when in training or recovery.

Biologists and their Work

As you can imagine, in order to make vital biological discoveries, biologists need to study matter from animals, humans, and other living organisms both living and deceased. In order for biologists to ensure that their results are accurate and reproducible, they need to ensure their biological samples are in pristine condition. Biological storage facilities ensure biological samples remain in workable condition by using cryogenics and biorepository storage.

Researchers from universities, hospitals, and other interested parties around the world study millions of samples over a time frame of many years - decades in some studies. They pore over the results and continue to repeat their tests hoping to find the key to solving another mystery of the human body, whether that be a cure for cancer or lengthening our lives.

Without a doubt, biology is the cornerstone of life on this planet and even beyond. Without dedicated biologists from all branches, life was we enjoy it would not exist. People are living longer, healthier, and doing more than was possible even just a few years ago. This would not have been possible without biology.