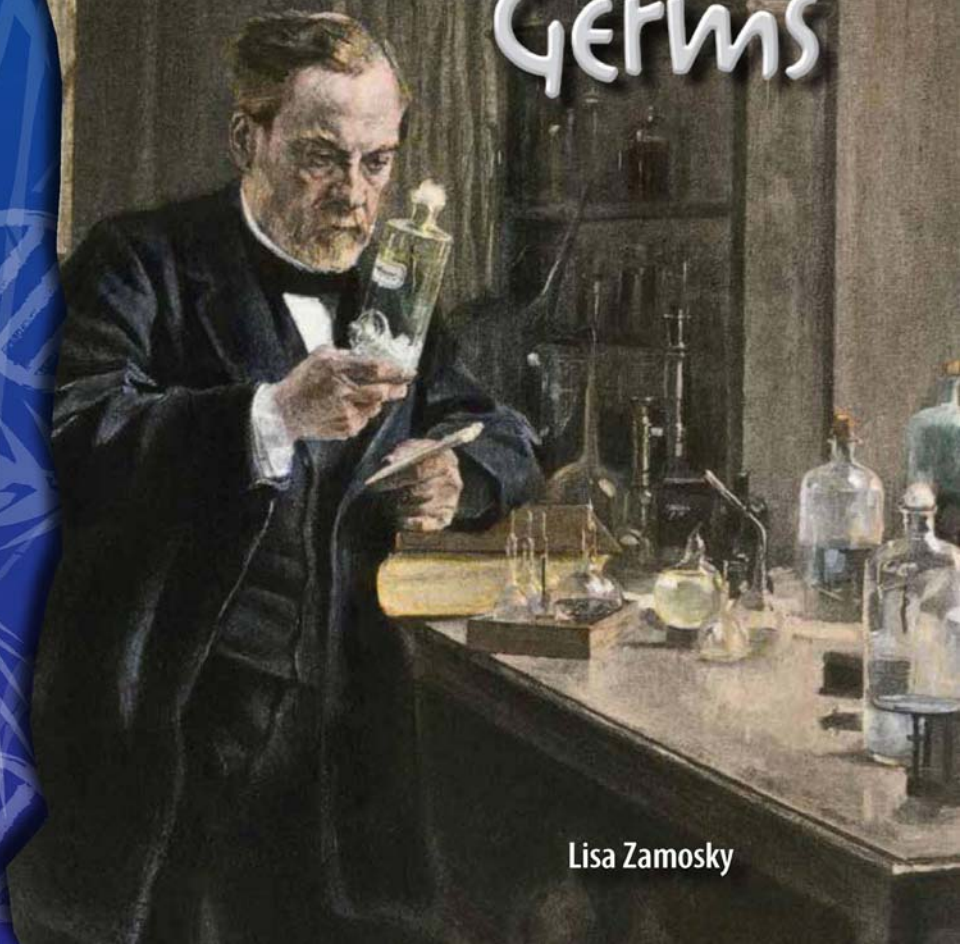


Louis Pasteur and the Fight Against GERMS



Lisa Zamosky

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Editorial Director

Dona Herweck Rice

Associate Editor

Joshua BishopRoby

Editor-in-Chief

Sharon Coan, M.S.Ed.

Creative Director

Lee Aucoin

Illustration Manager

Timothy J. Bradley

Publisher

Rachelle Cracchiolo, M.S.Ed.

Science Contributor

Sally Ride Science™

Science Consultants

Thomas R. Ciccone, B.S., M.A.Ed.,

Chino Hills High School

Dr. Ronald Edwards,

DePaul University

Teacher Created Materials

5301 Oceanus Drive

Huntington Beach, CA 92649-1030

<http://www.tcmpub.com>

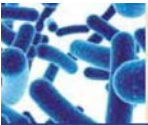
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The Great French Scientist



↑ Louis Pasteur

Notebooks Tell All

Pasteur kept many notebooks. He wrote down notes about all his lab experiments. He described over 100 experiments. Many years later, the notebooks were shared with the public. Scientists found that Pasteur did not always do his experiments the way he said he had. Sometimes, he changed the outcome to make his work look better. But the notebooks also showed years of hard work.

Louis Pasteur (pas-TUR) was a great scientist. He was born in France in 1822. He has been called the founder of modern medicine.

Pasteur is famous for many things. He saved millions of lives through his discoveries. He proved that germs spread disease. A germ is a simple living thing. It can only be seen with a **microscope**. A germ is also called a **microbe**. Can you guess what the study of small living things is called? It is called **microbiology**.

Pasteur may be best known for one of his inventions. It is a process named after him. It is called **pasteurization** (PAS-chur-i-ZAY-shun). It can be done with such liquids as milk and wine. The liquids are heated. The heat kills **bacteria** and **molds**. Pasteur saved many industries in France. His invention saved the beer, wine, and silk businesses.

A scientist uses a computer to display the image of a fly's eye as seen through a powerful microscope. →

Microscope Power

Have you ever looked through a microscope? A microscope makes things look bigger. There are different kinds of microscopes. Pocket ones can magnify up to 30 times. Optical microscopes can magnify things up to 2,000 times. Electron microscopes are the most powerful. They can magnify up to one million times!

Have you ever seen a fly's face up close? With a microscope, you can see a fly's mouth. You can even see its eyes. If you looked at it, you would be able to see that it actually has more than two eyes. Each of its eyes is made of many smaller lenses. They let a fly see nearly everywhere at once!



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