

—Dietz on Science— SUN'S LIGHT IS GREATEST FOE OF MICROBES

Bacteria, Unlike Plants,
Thrive Best in Dark-
ness.

BY DAVID DIETZ
Scripps-Howard Science Editor

Sunlight is the greatest enemy of microbes, for most bacteria thrive best in the dark.

Persaps some unconscious realization of this fact accounts in part for the fact that our spirits mount higher in the springtime when the days are longer and the skies brighter.

We class bacteria as a rule with the plants, but they differ from most plants. Most plants are green, which means that they contain the green coloring matter known as chlorophyll. Such plants can not grow without sunlight.

The leaf of a green plant is a factory, operating upon the energy of sunlight. The plant absorbs carbon dioxide from the air through pores in the leaves. It takes in water through its roots.

Feed in Different Way

Then a manufacturing process goes on known as photosynthesis. With the aid of sunlight, and in the presence of chlorophyll, which acts as a stimulator or accelerator—technically it is known as a catalyst—the plant puts the carbon dioxide and water together into simple sugars and starches.

But the microbes can not get their food with the aid of sunlight. Therefore, microbes must get their food in other ways. It is this fact which accounts for the activities of microbes and the roles which they play in the scheme of life.

Hasten Decay Process

Microbes may be divided into two main classes from the viewpoint of their feeding habits. There are the saprophytes and the parasites.

The saprophytes live on dead animal or vegetable matter. Most of these are friends of man. Without them, the world soon would be buried under an intolerable load of dead things.

But the saprophytic bacteria hasten the process of decay and cause chemical disintegration. In the same way, they also decompose all sorts of waste products.

In many cases these saprophytic bacteria also manufacture chemical compounds which are useful to man.

Thus, while we usually think of microbes as enemies, we must regard the saprophytic types as friends in many instances.

Restore Soil Fertility

Among other bacteria which play an important role in the scheme of life are the so-called nitrogen-fixing bacteria. These bacteria consist of two kinds, one of which lives in the soil, the other on the roots of certain plants.

These bacteria absorb the nitrogen of the air and turn it into nitrogen compounds which can be utilized by plants. Thus they restore the fertility of the soil.

Certain plants such as clover and alfalfa, attract these nitrogen-fixing bacteria. They congregate in little nodules on the roots of these plants.

That is why the wise farmer periodically plants a field in clover or some other similar plant. It is to give the nitrogen-fixing bacteria a chance to restore the nitrates to the soil.

ARMS EMBARGO BILL BACKED BY SPEAKER

League of Nations Association Chief Addresses Council Here.

Philip C. Nash, national president of the League of Nations Association, spoke on the importance of action on the bill now before congress to give the President power to declare a national embargo on munitions, at the Lincoln Monday night. He addressed the Indiana council of industrial relations.

This bill largely will determine the action of the league in the Japanese question, Nash said. Nearly all other nations, he said, have this provision in their laws and await the action of the United States.

Nash criticized the past policies of the United States "in signing and ratifying treaties" and then failing to aid in their enforcement. He urged substantial reduction in armaments by all nations.

BOARD CLERK NAMED

Clemency Commission Aid Is Selected by Governor McNutt.

Miss Gladys Griesse, Indianapolis, was appointed clerk of the state clemency board, it was announced today at the office of Governor Paul V. McNutt.

Joseph Reilly, Eikhart, was appointed successor to J. K. Smith, Eikhart, as railroad inspector for the public service commission.

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STUDY STREET PROJECT

Works Board Approval of East New York, Proposal Awaited.

Last link in the street widening program promised by the Sullivan administration will be forged if

works board resolutions for the widening and resurfacing of East New York street from Highland avenue to East street are approved.

Completion of the project will give the city a forty-five-foot traffic lane from East street to Irvington and

the jog at Highland park will be eliminated.

The board also has approved a resolution for the widening of Thirtieth street from eighteen to twenty-five feet from Orchard avenue to Rural street.

ASK \$10,000 FOR DEATH

Administrator of Estate Sues Motorists for Fatal Accident.

Administrator of the estate of Mrs. Alice Marie Heslar, the Peoples State bank asks damages of \$10,000

for her death in a suit on file in superior court four.

Defendants in the suit are Walter C. Brown and his son, Morris L. Brown. The latter is alleged to have been driving his father's car

when it struck Mrs. Heslar's car on Kessler boulevard northwest of the city, Aug. 27, 1932.

Brown's alleged failure to stop at a preferential street caused Mrs. Heslar to receive fatal injuries, the complaint states.

Held for Lebanon Police

Police Monday night arrested George Isenhour, 21, of 2457 Guilford avenue, at the request of Sheriff Wilbur Small at Lebanon, who said Isenhour is wanted there on a larceny charge.

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 LINEN Frocks Sizes 14 to 42 59c In green, brown, rose, pink, and natural. (Second Floor)	 50-IN. DRAPERY DAMASK 50c Value Yard— 33c Lustrous rayon Sicilian damask in rust, red, or green. (Third Floor)	 3-PANEL WOOD Fire SCREEN \$3.50 Value A most attractive, substantial screen, in walnut finish with floral decoration \$1.85 (Fourth Floor)	 WOMEN'S 50c, 59c C hamoisuede Gloves 39c Trimmed cuff; stripes, white, beige, eggshell. (Street Floor)	 MEN'S RAYON SOCKS 12 1/2c, 15c Kind 9c Pr. First quality, in attractive patterns; reinforced for service. (Street Floor)	 Umbrellas of Gloria Silk \$2.00 Value \$1.47 In black, green, navy or brown; novelty handles. (Street Floor)
 WOMEN'S MUNSUNG Union Suits Were \$1.00 and \$1.50 29c Fine lightweight cotton knit suits. Mostly bodice top, knee length style. Broken sizes. (Street Floor)	 Men's Wool Flannel Shirts Sizes 14 1/2 to 17 \$1.00 In plain blue, gray, and fancy patterns; sold up to \$3.50. (Street Floor)	 59c QUILT PATCHES 2-Lb. Box 33c Each box contains the equal of 10 yards of 36-inch material. (Street Floor)	 ECRU MARQUETTE PANELS FRINGED These would be much higher in price if they did not have slight mill imperfections. Each 13c (Street Floor)	 Men's Shorts AND Shirts 15c ea. Striped and plain broadcloth shorts, 30 to 42; ribbed shirts, 36 to 46. (Street Floor)	 WOMEN'S KNIT Union Suits Perfect Quality 25c Fine ribbed, white cotton, sleeveless suits, regular and extra sizes. (Street Floor)
 BOYS' GABERDINE Slacks 77c Brown or gray; washable. High waist with side tabs. (Street Floor)	 MEN'S KNIT COTTON Union Suits First Quality 44c Fine ribbed ecru suits; short sleeves, ankle length. Sizes 34 to 46. (Street Floor)	 BLUE CHAMBRAY Work Shirts 29c Men's coat style shirt, sizes 14 1/2 to 17. (Street Floor)	 HIGH-GRADE Woolens Values to \$4.95 97c and \$1.37 Yd. Flannels, Poiret twills, broadcloths, kashas, coatings, needlesheen and charmein. (Street Floor)	 WOMEN'S \$1, \$1.49 PAJAMAS Gay Prints Fast color broadcloth in one or two-piece style; also rayon flat crepe pajamas at 59c (Street Floor)	 MEN'S LINEN Porto Rican KERCHIEFS 12c With rolled hems and hand-drawn colored threads. (Street Floor)
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