

# Gradual Evolution of Species Theories May Be Disproved By Studies of Cell Substance

By Rennie Taylor  
Associated Press Science Editor

BERKELEY, Calif., Nov. 20—(AP)—A cell substance never before suspected of playing a part in evolution may be responsible for the sudden origin of new species, Dr. Richard Goldschmidt, distinguished zoologist, reported last week.

This cell material also may play a dominant role in determining the sex of individuals, Dr. Goldschmidt told the National Academy of Sciences.

He said it can cause a leg to grow on a fruit fly in the place where a wing should be. It can make the left side of an insect female and the right side male. It can cause a female to develop a deformity which usually occurs only in males.

Three Year's Effects Have Been Observed Only on Insects and Worms. But it exists in the cells of all living things.

Whether it will cause similar or even more spectacular changes in higher animals remains to be determined. The weird effects on flies and worms were obtained during three years of research by Dr. Goldschmidt and his colleagues at the University of California.

This tricky stuff is called heterochromatin. It is one of the two principal materials in which chromosomes, the hereditary agents of all living cells, are made. The other principal matter is Euchromatin.

The Euchromatin is the material containing the genes, which most scientists believe are potent specks of matter in chromosomes which transmit hereditary characteristics from cell to cell during their growth and division.

Contradicts Theories Heterochromatin, which was first identified 20 years ago by a German researcher, supposedly played no part in genetic activity, Dr. Goldschmidt said. His report to the academy contradicts that assumption.

The conventional idea of genetic evolution is that the genes cause tiny changes in cells over a long period of time. These changes become progressively greater and more widespread until they cause a noticeable change in an arm, wing, leg or some other part of the body, or even a radical alteration of the whole individual, so that he becomes far different from his ancestors and qualifies as a new species.

Dr. Goldschmidt believes the great evolutionary changes that produce new species occur suddenly, not slowly over a long period of time. His idea is that heterochromatin may eventually prove to be the agent capable of causing these large, sudden changes.

## Reserves to Furnish Rifle Instructors

Instructors for rifle clubs proposed for Salem area high schools will be furnished through efforts of Marion county chapter, Reserve Officers' association, and several communities have shown favorable reaction to the plan, Salem's military manpower committee announced Saturday.

Col. Philip W. Allison was named by the ROA as chairman of a committee to arrange for instructors from that organization and from local army reserve units.

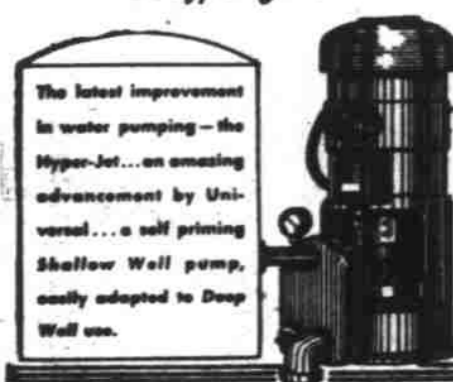
W. H. Baillie of the manpower committee said the army would furnish arms, ammunition and targets for the rifle teams, among which it is hoped to establish inter-school competition.

Rube Golberg of the Philadelphia Athletics was Rube Ruth's leading "cousin" during his major league career—Ruth hit 17 home runs off him.



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## Pakistan, India Tension Grows

KARACHI, Pakistan, Nov. 20—(AP)—Pakistan will have to take "appropriate military measures" unless something is done to correct the situation in Kashmir within a few days, Defense Secretary Iskander Mirza said today.

He was referring to new military action by India in the Jammu area and southwest Kashmir which Pakistan considers to be a major offensive.

This offensive, Mirza said, is a violation of a resolution by the United Nations Kashmir commission, which provides that neither India nor Pakistan should take aggressive steps in the northern princely state which mediation efforts are in progress.

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## French Reds May Postpone Port Strikes

PARIS, Sunday, Nov. 21—(AP)—The French press agency said today communist labor leaders have decided to postpone the general port strike.

The agency said union leaders made their decision after talks with Christian Pineau, French minister of public works and transportation. It added labor leaders will decide finally on Wednesday.

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## New Greek Cabinet Asks For Support

ATHENS, Nov. 20—(AP)—Greece's new coalition cabinet asked parliament tonight to give it a vote of confidence and then suspended meetings while the government launches a new program against communist guerrillas.

Parliament was asked to suspend its sessions until February 1, during which time the cabinet would assume legislative functions and be safe from overthrow.

Premier Themistokles Sophoulis, leader of the Liberal party, opened the debate by outlining plans for a relentless economic and military drive to wipe out the guerrillas.

As he spoke, supporters of the Liberal - Populist Coalition were trying desperately to line up enough members of parliament to win the vote of confidence.

Sophocles Venizelos, deputy leader of the Liberal party, was working to topple the government. Venizelos forced the resignation of the previous Liberal-Populist cabinet a week ago, charging it had failed to crush the guerrillas, but Sophoulis agreed to try again with a similar coalition.

## State Employees Group Affirms Pay Rise Plea

PORTLAND, Nov. 20—(AP)—A wage scale for Oregon state workers comparable to the averages paid by industry and other states were advocated today by the State Employees association's general council.

The council members indicated that Governor John Hall may be asked to extend the present cost-of-living pay benefit of \$20 a month beyond January 1 or assure adoption of a new wage proposal.

A five point proposal drafted by the wage and salary committee suggested upward revision of wage classifications allowing for an average \$10 boost.

The program also suggests: A standard time-and-half overtime rate for work in excess of a 48 hour week; standard per diem subsistence allowances; a provisional fund set up for the state emergency fund by the legislature to permit wage and salary adjustments during the biennial period.

The council also heard State Treasurer-elect Walter Pearson promise "nobody will be fired for political reasons" when he takes office. A new treasurer is a democrat.

The Statesman, Salem, Oregon, Sunday, November 21, 1948—7

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