COMMENTS by Readers

ment was made: "It would seem most 26, 1945). probable that the agent of heart-water fever, while not distinctly either a Rickettsia or a member of the lymphogranuloma-psittacosis group, is related to both."

cytotropic viruses of the Chlamydozoa-Rickettsiae group (Adv. mod. Biol., 1945, 19, 1-44), I have indicated that the plasm of the host cell. The specific name wind, or may fall of its own weight after causative agent of heart-water fever differs from the classical Rickettsiae and agrees with the organisms of the and the diagnosis of the genus Cowdria: before the mechanical defects are obvious. family Ehrlichiaceae in its dimensions, cytotropic organism, coccoid with a From the time it appears in the wood, in sensibility toward the action of the tendency toward formation of bacillar heartrot will interfere in a cumulative sulfonamide drugs, and especially in its forms; characteristic localization in the manner with normal development, aptitude to provoke the formation of form of clusters inside vacuoles in the through retardation of the developvacuoles in the host cell, including the cytoplasm of vascular endothelium. (SH. mental processes, with consequent reducaggregated elementary bodies representing the parasite.

The subgeneric name Cowdria (in honor of Edmund V. Cowdry) was there-

Ehrlichia (Myiagawanella).

The striking resemblance between the agent of heart-water fever and Ehrlichia subject of developmental anatomy has terling & Son, Inc., Butler, Pennsylvania. kurlori as to the dimensions of the single appeared in recent years. Bailey, Chalk, elementary bodies, the production of ance is clearly visible in the illustrations influences of environmental factors on the constitution of its nucleus." It is of my article (Adv. mod. Biol.). During developmental anatomy have enriched proposed that this term be used for the Dr. R. Weigl's visit to Moscow, I was the field of botany and given us useful concept in question in place of such inable to show him preparations of E. tools of knowledge. My own studies on correct or inconvenient expressions as kurlovi which were indistinguishable from the effects of temperature and rainfall isotope, nucleus, atomic species, and R. ruminantium.

Ehrlichia (Myiagawanella), in its histo- Pennsylvania State College, 1936).

Rake, Alexander, and Hamre (Science, Its antigenic differences have also been is slowly becoming apparent. It is October 26, 1945). the following state- recently established (Science, October

On these grounds we propose to raise the subgenus Cowdria to the rank of a genus, intermediate between the families Rickettsiaceae and Ehrlichiaceae, having Bull. Torrey. bot. Club, 1936, 63, 259-265). in common with the first the tropism to In a tentative classification of the the cells of vascular endothelium and heartrot is more likely an indirect rather sharing with the second the localization than a direct cause of failure in coppice. inside vacuoles formed in the cytoof the agent of heart-water fever will heartrot has spread in the bole, a tree so then be Cowdria ruminantium nom. nov., weakened has lost its competitive power D. MOSHKOVSKI, Institute of Malaria and tions and changes in the amounts and Medical Parasitology, Moscow, USSR.) types of tissues that form. By reducing

fore proposed for this organism, and the heartwood is a pathogen. This thesis latter part of the growing season, the necessity of separating it from the genus is an incident of my interest in the prob- progressive spread of decay will inter-Rickettsia was taken into consideration. lem of competition between sprouts and fere with the production of, and dif-I can thus fully agree with the authors seedlings in the forest. It is my view on ferentiation in, tissues and therefore of the above-mentioned article on the decay as one of the factors in the deca- with the movement of water and the close parentage between the causative dence of coppice. The entire causal basis translocation of solutes. Such interorganism of heart-water fever and the of the superiority of seedlings over sprouts ference with movement, through retardamembers of the lymphogranuloma-psit- is probably within the realm of develop- tion of transportation capacity, will tacosis group belonging, according to the mental anatomy (private publication of influence adversely the developmental named classification, to the subgenus author, February 1947, on "The nature anatomy of the plant. Given such a

Cockerham, Elliot, Priestley, and others vesicles in the affected cell, and the have probed into the subject. Their work (nuclear) and 6200 (species), is defined tendency to assume a bacilliform appear- on the stele and their studies on the as "a species of atom characterized by indicate that the speed and the degree nuclear species. A more detailed discus-On the other hand, the agent of heart- of differentiation of tissues can be in- sion is being published in the American water differs from the members of the fluenced by external factors ("Studies on Journal of Physics, July-August 1947, genus Ehrlichia, including the subgenus breakage of apple trees," unpublished, 15. (TRUMAN P. KOHMAN, Institute for

The entire subject of meristems, development, and behavior is in a state of flux. The complex pattern of interwoven threads of the origin, organization, form, mass, and location of a meristem, in relation to the appearance of axes, leaves, and blossoms, the form and size of organs, and the organization and In a recent y published article by tropism and the mode of propagation. extent of primary and secondary tissues, obvious, however, that the locations, kinds, and human uses of initials are still problems and not findings. Discoveries are largely in the realm of the future (Science, October 4, 1946, p. 329;

> With regard to the thesis posed above, Though a tree may be broken by the the capacity of heartwood to act as a Any fungus that causes decay of water reservoir, especially during the of the seedling and sprout growth forms"). situation, any fungus that causes heartrot A large volume of literature on the is a pathogen. (ISADOR AARON, P. J. Oes_

> > The word nuclide, derived from nucle-Nuclear Studies, University of Chicago.)