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## An Application of the Theory of Probabilities to the Study of a Priori Pathometry.--Part III

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week by week, and became very unhealthy in appearance, whilst there was a progressive improvement in the appearance of the plants supplied with increasing amounts of auximones. Those receiving the larger amounts retained their normal healthy appearance throughout the experiment and increased in size.

6. The beneficial effect of the auximones was not due to a neutralisation of the toxic substances present in the ordinary distilled water, since comparable results were obtained with conductivity water.

7. An interchange of culture solutions, with and without auximones, showed that the plants are very sensitive to the presence or absence of these substances.

8. It is suggested that some of these growth-promoting substances may act directly as organic nutrients, and others may be of the nature of accessory food substances.

I am indebted to the authorities of the Botanical Department, Imperial College of Science and Technology, South Kensington, for facilities afforded for carrying out a considerable portion of the work in their greenhouse laboratory. I wish also to express my grateful thanks to my assistant, Miss Mockeridge, B.Sc. Without her valuable help it would have been impossible to obtain a record of the numbers and weights of the plants each week.

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