

# BIBLIOGRAPHY OF PHARMACEUTICAL RESEARCH

Conducted by H. V. Army, Reporter on the Progress of Pharmacy, Chairman of the Committee on Research.

On these pages, each month, will be found a list of articles on pharmaceutical research that appear in the pharmaceutical and other scientific journals of the world. Whenever possible, the list appearing a certain month will record articles appearing in American journals of the preceding month and articles appearing in foreign journals will be recorded as quickly as possible after the journals reach the Reporter.

All articles appearing in these lists will be presented in abstract form in the bound volumes of the YEAR BOOK, which will be issued as soon after the end of the year represented as editing and printing conditions permit. Those desiring abstracts immediately can obtain same for a fee of one dollar each by communicating with H. V. Army, 115 West 68th St., New York, and arrangements can also be made for securing photographic reproduction of entire articles at moderate prices when such are desired.

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#### THE NEW FLORAL CLOCK.

S. Leonard Bartin states that since Linnaeus worked out his floral clock the list of available subjects has been very much increased. This is due to the introduction of other kinds of plants and also owing to the fact that new varieties of the old ones frequently show a variation in the time of opening their blooms.

The chief difficulty in putting together the list of subjects for the floral clock has been that they must all flower at the same time of the year, preferably in the summer months of June and July. Also the twelve species selected must expand their blossoms in successive hours from six in the morning to five in the evening. After a large amount of experimenting the following selection of plants has been put together and this is claimed to

be the most perfect list for the floral clock up to date. Slight variations in the times of opening might occur in different localities, but it is remarkable how closely the various plants adhere to the times of opening. The times of the expanding of the buds are in all cases put before the name of the plant: 6 A.M., Yellow Hawkweed (*Hieracium aurantiaca*); 7 A.M., Marigold (*Calendula pluvialis*); 8 A.M., Venus' Looking Glass (*Specularia speculum*); 9 A.M., Corn Marigold (*Calendula arvensis*); 10 A.M., Clovewort; 11 A.M., Mountain Dandelion (*Taraxacum montanum*); 12 M., Fig Marigold (*Mesembryanthemum*); 1 P.M., Single Pinks (*Dianthus*); 2 P.M., Pyrethrum corymbosum; 3 P.M., Red Hawkweed; 4 P.M., Lady of the Night (*Mirabilis dichotoma*); 5 P.M., Catchfly (*Silene noctiflora*).—*Scientific American*.