put a little sand under each bulb. Myacinths shoud be cight inches apart each way, and four inches deep. Tulips six or seven inches apart, and about threo and a half decp. Crocuses may be nearer; three inches distant and two deep. Snow-drops, about the same as crocuses. Lilies are to be at least a foot apart each way, and five inches deep, and the same distance for the Crown Imperial. In making up the beds, it is well to leave them a few inches abovo the general level, as they will settlo during the winter. Though the bulbs mentioned here are all perfectly hardy, yet they will como out all tho strouger in spring, if covered when cold wealher scts in, by a layer of littery manure, or leaves, which last may bo kept down by sprinkling a little soil over them. Bulbs may be potted now and kept in a cool place until frosts come, when they may be placed in the cellar, from which they are to be taken during the winter at intervals, a fer at a time, to a warm room to flower.-Agriculturist.

## chalk ferments.

Chemists and Niaturalists often cross each others paths. The naturalist ventures beyond his bounds and propounds a theory or states a so-cilled fact which the cliemist at onco upsets; and the chemist in his turn starts a hypothesis or gives explanation of a phienomenon which aroisises tho indignation of the naturalist. To this latter class belongs the paper of M. A. Bechamp, in a recent number of the Comptes Rendus, translated in "Chemical News" (19th Oct., 1866), in which he shows to his own satisfaction, but not to ours, that there are present in chalk living molecules which act as ferments, and that the part played by chalk in Butyric and Lactic Fermentations is due to these molecules. In these cases assuredly chalk acts simply as a chemical compound, and not by the exertion of any physiological action. The mobile corpuscles observed by the same author in the waters of Vergeze are "supposed" to be the cause of the formation of volatile fatty acids in these waters. It may be supposed, likewise, that M. Bechamp is mistaken.

Native Sulphor.-Several samples of a greyish black substance with slight metallic lustre have lately been brought by different parties to the Laboratory of Dalhousic College, for examination, in the belief that they were metallic ores.On analysis, these samples were determined by Professor Lawson to be not metallic ores, but Native Sulphur, a substance that had not previously beenknown to occur in Nova Scotia. In the first specimen examined the doris colour was found to be due to plumbago, and not to
the presence of metallic oxides or sulphides as is commonly the case in Sicilian specimens. The substance is very light, specilic gravity 2.0 , and when heated in an iron spoon takes fire and burns with a blue flame, giving off sulphurous acid. The manufacture of pure sulphur from this substance nould be a very simple process.

## SWALI TALK.

The proceeds of the sale of Canadian Cattlo and Sheep, on 2nd November, amounted to $\$ 2711.50$.-The Gardener's Monthly says that Quinco cuttings rarely fail if set in the fall.-The American Agriculturist for November figures a splendid Merino Ram, whose fleece this year weighed $26,1 \mathrm{lb}$. The price of $\$ 15,000$ has been refused for him.-Mr. Decie of Wilmot has a nuniber of pure Berkshire pigs for sale.-Thursday, the 15th Novr., is Thanksgiving Day.-Spelt is being grown in the Slates.-Goodrich potatoes are selling in the Stateg at $\$ 4$ a bushel.Magnesium rods are now used instead of zine for detecting arsenic.-Mr. George Plumb, who brought out the Government Horses last year, returued by the China last week.--Fire proof gloves of asbestos, cuabling an assajer to hold a heated crucible, are now sold in Hungary for \$20.-In the State of Nevada a mountain of salt, "several thousand feet in height," has been found.-A Chemical Laboratory is being erected at Bonn for the Rhenish Frederick Willis $n$ University, which will cost $\$ 100,000 .-$ At Worthing, a field of Italian Rye gi iss dressed with town semage, has yieded a cutting of wholesome cow-feed at the rate of 20 tons to the acre.-Mr. Fish ?r Hobbs, who, in conjunction with Lurd Western, originated the famous Esse: breed of pigs, has just died. The Essex breed originated from crosses between tie Naples, Essex and Berkshires.-Purch) sers at the Government Sale of Live こiock at Richmond have in several instances been offered advances equal to nearly double the prices paid.-One of the Canadian bulls in being shipped at Halifux fell into the Harbour, but was rescued.-'The Glasgow Horticultural Society has an income of $\$ 5,500$, and distributes $\$ 3000$ in prize money.Mrs. Miller is in England preparing another series of her beautiful drawings of Nova Scotian wild flowers.-It is now time for intending exhibitors to commeuce preparation for the Provincial Agricultural Exhibition to be held in 1868.-Tho Board of Agriculture has obtained a quantity of the best Canadian Seed Wheat, Peas and Beans.-A new trade is springing up in the export of Wool from British America to England.-There is not enough wool in the States to clothe the people. and the duties are so high they cannot afford to import it.--The weather this fall has been very favorablo for
ploughing.-In the Street Cars the othor day, in old cumbtryman descanted contemptuously upon the Halifax houses as covered with "wooden sclates."-At the Nova Scotia Institute of Natural Scienco on Monday ovening, Dr. Gilpin read an interesting paper on Furs. It was tho smallest meeting we have attended.-Tho last quarterly number of the Eidinburgh Journal of Agriculture contains a vivid picture of the late Hugh Watson of Keillor, "hy one of his daughters."Hugh came of a "good old stock," enjoyed the "merry days when he was young," kept a racer and put many trophies on the sideboard at Keillor. became a trooper in the $L$ ggus Ycomanry, ran mail conches till they were run oft the road by railways, moved with the times into a railway director, introduced the use of bono dust into Scotland and erected the first bone mill, acelimatised Jonas Webb's Southdowns on the Sidlav Hills, and originated the far-famed Angus breed of black polled cattle. IIe could sing a good song too, and became almost pathetic over "The Ewie wi' the crookit horn." Personally wo have lively recollections of the genial genteman farmer, and of his wife and daughters on their weokly visits to town on market days, and our special thanks are due to this daughter who has sketched as graceful a biography as we have read for many a year.

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