

Abstract – Prof. Dr. Fei-Hu Liu

China is one of the main producers of industrial hemp all over the world and now the main interests are focusing on the cannabidiol (CBD) extraction from hemp flower-and-leaf. China, especially Yunnan Province is the world leader of CBD mass production up to now. Apart from Yunnan Province, there are some other provinces such as Heilongjiang and Jilin started the CBD industry in China. In Yunnan Province, many efforts have been put to improve the cultivation techniques aimed at increasing the yield of hemp flower-and-leaf and the CBD content, decreasing the production costs, avoiding the influence of soil drought during the sowing season, decreasing the amount of fertilizers applied and soil erosion, inhibiting weeds growth, etc.

For this we created the four-innovation techniques of flower-and-leaf hemp cultivation based on many times of field experiments. The new method was summarized as: fertilizes at fixed points and deep inside the soil rather than surface dressing, plants the seeds in the ridge between furrows mulched with dark polyethylene film rather than naked flat soil sowing, transplants the seedlings cultured in mini nutrition pots in advance rather than seeding in the field, decreases the density to 0.5~1 plant/m² rather than 4.5~7.5 plants/m².