

S24-4 Expectations for the education of graduate school of pharmaceutical sciences

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Aiming at the development of new drugs for treating incurable diseases, many students enter graduate school of pharmaceutical sciences every year. At first, I expect that education will facilitate the students' progress by letting them keep their initial enthusiasm. The research and development of a new drug spends more than 10 years and 100 billion yens. Besides, the success probability is low. Many attempts have been made to raise the success probability. One of them is introduction of the project system. The best members are gathered from the fields such as chemistry, molecular biology, pharmacology and pharmacokinetics, etc. In the project system, project leader/members have to decide to go or stop by their own judgment, and thus they need to be given with authority and responsibility. It is necessary for a project leader to have great knowledge across multiple research functions and the abilities to hold lively discussion. Only a researcher from graduate school of pharmaceutical sciences can be assigned as a project leader early in his/her career. Recently, withdrawal from Japan of research institutes of foreign-affiliated pharmaceutical companies occurs successively. The reasons is pointed out that the biomedical research that is the next step of fundamental researches has not been very successful. I expect that the cluster, which consists of pharmaceutical companies, venture businesses, administrations and graduate school of pharmaceutical sciences, will be immediately constructed.