



WHERE

WE

LEARN

Reimagining
Educational
Spaces

FRAME

STAY Architects
reimagines
the common
greenhouse with its
curious experimental
facility, Glass House
Laboratory



RIGHT A glass greenhouse was adopted to combine natural light and ventilation for an artificial growth environment.
Photos Dong-il Lee



ABOVE The space serves to conduct research on the development of herbs, extraction of essential components and the use of the extract.

RIGHT TOP The residential part was finished with wood for insulation and walls made of polycarbonate for external field view.

RIGHT BOTTOM The interior has two stories. The first floor offers a research space, while the second floor has a relaxation area to observe the entire growing area.

YANGPYEONG-GUN A small-scale greenhouse is an independent space for cultivating plants. In the middle of a quiet residential area among farmland in Yangpyeong-Gun, STAY Architects tried a new interactive growing centre in which cultivation and experimentation are carried out at the same time on the scale of a private greenhouse.

The facilities and exterior of the structure were designed following aeroponic methods of cultivation. As the complex is a hybrid space between laboratory and temporary residence, it is equipped with facilities that allow for various uses. This attempt drew attention from individual owners pursuing business purposes as well as from the younger generation looking for modern agricultural housing as a new prototype of suburban rural life.

To allow for soilless cultivation and research, a glass-type greenhouse was adopted to combine natural light and ventilation with the artificial cultivation method. The greenhouse is divided mainly into a living area and a space for work facilities. To reveal the characteristics of this re-imagined greenhouse – classically a structural building with polycarbonate and linear lighting – galvanised steel and similar materials are used to emphasise the mechanical and laboratory-like feel. The first floor of the living area is a space for research on herbs, while the second floor is a space to rest, observe and analyse the entire greenhouse. Unlike the work area, this study space features rough but warm masonry.

