Concept and scientific programme

Concept
The Biocentre and Globcentre of the Albertov Campus should attract excellent research teams from the ranks of current employees of the participating faculties. They will also provide opportunities for other top scientists from the Czech Republic and abroad. Focus is on the interdisciplinary nature of subjects addressed in research projects and on the use of synergies stemming from the collaboration of scientific teams from the three faculties of the Charles University which all focus on natural sciences.

Infrastructures built within the Albertov Campus Project should further promote the character of the location as an ‘academic quarter’. In addition to new spaces for research and education, they will also provide adequate social facilities, which are nowadays standard part of modern university campuses.

The planning and building of the two centres is currently addressed as one integral whole. The project emphasises energetic sustainability of the new buildings. Given the location and importance of the project, the building design will be chosen by a public tender.

Scientific Programme
The current plan includes the following general research areas:

BIOCENTRE
• Biochemistry and metabolism
• Cellular systems in health and illness
• Infection and immunity
• Genetics, genomics, and bioinformatics
• Chemical synthesis, materials research, and nanotechnology
• Spectral and structural research of materials

GLOBCENTRE
• Climate changes and atmospheric processes
• The dynamics of natural processes and changes in the landscape
• Socioeconomic and demographic manifestations of global processes and changes
• Geodynamics
• Geochemistry, biogeochemistry, and toxicology
• Ecosystems, biodiversity, and biological invasions
• Geoinformatics and geostatistics

Other Facilities Planned as Part of the Albertov Campus
Teaching facilities would include a large auditorium with capacity of app. 300 persons with adequate conference equipment as well as smaller auditoria and rooms intended for seminars.
The planned ‘social’ spaces include, among others, a university canteen, which would replace the existing one, but also bistro, study rooms, rooms for sports and relaxation, and other locations for meetings, discussions, and leisure time between laboratory work and lectures.
Another information of the project Campus Albertov here.