

## CIBoG/GTR Joint Seminar



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## Apprehending structural and functional diversity of glycans

January 18<sup>th</sup>(Mon), 2021

15:00-16:30 (On Zoom)

URL :

<https://us02web.zoom.us/j/86502015266?pwd=ai9JbGl1emZ4cERyZ3VrYmxmSDloZz09>

Meeting ID: 865 0201 5266

Passcode: evEK36



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Carbohydrates, also called glycans, are the most abundant and diverse biological molecules on Earth and make up part of the biology of all living organisms. Associated to other biomolecules to form glycoconjugates, they are distributed in all classes of living organisms where they play myriad of biological functions in energy reserve, molecular arrangements, cell-cell and molecule-molecule interactions, regulation of protein stability etc. Despite their fundamental roles in all part of biology, the study of glycans lag behind those of other classes of biomolecules such as proteins and nucleic acids, mostly because of their complexity. During this lecture, we will first introduce what is the chemical origin of carbohydrate diversity and then briefly describe how this structural diversity can be evaluated by a combination of physico-chemical methods including gas and liquid chromatography, mass spectrometry and NMR. Finally, we will highlight the clinical importance of carbohydrates through the presentation of several examples.

連絡先：糖鎖生命コア研究所 統合生命医科学糖鎖研究センター 北島 健（内線 4297）

