

# Carbohydrate Chemistry

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### Carbohydrate Chemistry

To register your interest please contact [collegesales@cambridge.org](mailto:collegesales@cambridge.org) providing details of the course you are teaching. Bound carbohydrates are an important and fascinating topic in biochemical and ...

### Bound Carbohydrates in Nature

While oatmeal is one best carbs you can eat, too much could cause your body to experience this uncomfortable side effect.

### One Major Side Effect of Eating Too Much Oatmeal, Says Science

The award is one that "encourages outstanding contributions to research in carbohydrate chemistry by scientists in the first seven years of their independent career" according to release from ...

### Vanderbilt chemist wins David Y. Gin Young Investigator Award

This discovery revolutionized what we know about how carbohydrates ... part by the Norwegian Research Council and the Faculty of Chemistry, Biotechnology and Food Science (KBM), NMBU.

### Bacteria use enzymes to defuse the immune system

A continuation of CHE 3331 involving the chemistry of the more polar functional groups, including carbohydrates and amino acids. A nationally standardized comprehensive final examination covering both ...

### 3000 LEVEL

A cardiologist calls out three popular weight-loss diets for not being good for your heart health. Find out which ones are under fire.

### These Popular Weight Loss Diets Are Bad For Your Heart, Says Cardiologist

Engineers have developed a technique to repartition carbon resources from carbohydrates to lipids in microalgae. It is hoped that this method can be applied to biofuel production. A cross ...

### Microalgae biofuels: Changing carbohydrates into lipids

Algal polysaccharides constitute a diverse and abundant reservoir of organic matter for marine heterotrophic bacteria, central to the oceanic carbon cycle. We investigated the upt ...

### Isotopic tracing reveals single-cell assimilation of a macroalgal polysaccharide by a few marine Flavobacteria and Gammaproteobacteria

1 Department of Chemistry, University of Washington ... commercially available fluorescent dyes for rapid and intense covalent labeling of proteins and carbohydrates in super-resolution (expansion) ...

### Feature-rich covalent stains for super-resolution and cleared tissue fluorescence microscopy

Fermentation is a kitchen organic chemistry project. For fermentation to occur, bacteria and/or yeasts convert foods' carbohydrates into acid, carbon dioxide and/or alcohol which preserves the food.

### **Fermenting food facts**

Illustration of the chemical "nose" sensing a G-quadruplex structure. Credit: Richard Hooley/UCR. A study shows an abnormal build-up of carbohydrates in a mutant line of corn that can be traced to one ...

### **Chemical "Nose" Sniffs Out the Smallest of Changes in DNA Structure**

Third, increased hepatic de novo lipogenesis driven by hyperinsulinemia and increased carbohydrate intake elevate the hepatic fat content. Fourth, impaired VLDL secretion exacerbates this process.

### **The Metabolically Benign and Malignant Fatty Liver**

The sensor, which uses wired enzyme electrochemistry technology like that used in CGMs, was based on  $\beta$ -hydroxybutyrate dehydrogenase chemistry ... who are on low carbohydrate diets, in which ...

### **Wearable Continuous Ketone Monitoring**

Ditching processed foods for complex carbohydrates like sweet potato and brown rice, getting your hormones checked and doing targeted exercises are vital if you want to shed back fat, a leading ...

### **Personal trainer Rachael Attard reveals how you can get rid of your back fat for good**

Some 67 years ago, at the beginning of February 1954, 52-year-old Dr Henry Bohn Hass, a specialist in organic chemistry who ... 48.5% of the calories derived from carbohydrates, 40% from fat ...

### **How an obscure sugar lobbying group helped start global health crisis**

After interaction of reovirus attachment protein  $\sigma 1$  with cell-surface carbohydrates and proteinaceous ... carbodiimide (EDC) chemistry in two steps. COOH functionalization. Gold-coated silicon ...

### **Reovirus directly engages integrin to recruit clathrin for entry into host cells**

She has had an incredible career at North Dakota State University, rising to her current position of an endowed professor and earning an outstanding reputation as a researcher in food chemistry and ...

### **Purdue Agriculture dean appoints new food science department head**

Galectin-3 is unique amongst the galectins in that it has two parts - a C terminal Carbohydrate Recognition ... this compound requires complex organic chemistry. Others have tried and have ...

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