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## **Characterizing Mechanisms Of Simultaneous Biological**

Simultaneous biological nutrient removal (SBNR) is the removal of nitrogen and phosphorus in excess of that required for biomass synthesis in biological

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wastewater treatment systems where there are no defined anaerobic or anoxic zones. This report identifies factors affecting the relative contributions of three mechanisms responsible for SBNR: bioreactor macro-environment, floc micro-environment, and novel microorganisms.

**Characterizing**

*Page 6/31*

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**Mechanisms of  
Simultaneous  
Biological ...**

Characterizing  
mechanisms of  
simultaneous biological  
nutrient removal during  
wastewater  
treatment. [Peter F

Strom; Helen X  
Littleton; Glen Daigger]

-- This research  
attempts to evaluate  
nitrification treatment  
performance in  
combined  
carbon/nitrogen

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Characterizing  
municipal wastewater  
reactors using  
traditional  
physical/chemical  
methods and modern  
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## **Characterizing mechanisms of simultaneous biological ...**

With sufficient supply  
of nitrate,  
simultaneous removal  
of N-S-C is possible  
using symbiotic  
relation of



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heterotrophs and autotrophs in the same CSTR system (Reyes-Avila et al., 2004).

Simultaneous removal of N-S-C can be achieved by involving complex interactions between autotrophic and heterotrophic denitrifiers.

## **Simultaneous biological removal of nitrogen-sulfur-carb on ...**

The operation cycle

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was further investigated to analyze the mechanisms of simultaneous biological nitrogen and phosphorus removal in the system. Materials and methods Startup and operation of SBR-BF system. The SBR-BF system used was located in the basement of an apartment block in south China. All wastewater produced in the building flowed

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Simultaneous  
Wastewater  
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Protein Structure and  
Dynamics Using Cryo-  
Electron Microscopy. ...

We illustrate the  
method by  
characterizing  
structure and dynamics  
of the integral  
membrane receptor

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STRA6, thus providing insights into the mechanisms by which it interacts with retinol binding protein and translocates retinol across the membrane

...

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and ...**

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on fruits with a simple  
method to study  
competition for  
nutrients

Phytopathology. 2000  
Nov;90(11):1196-200.  
doi: 10.1094/PHYTO.20  
00.90.11.1196. Authors  
W J Janisiewicz, T J  
Tworkoski, C Sharer.  
PMID: 18944420 ...

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characterizing  
biological mechanisms  
underlying UV-induced  
wrinkles: a pivotal role  
of fibroblast-derived  
elastase Arch Dermatol  
Res. 2008 Apr;300

Suppl 1:S7-20. doi: 10.  
1007/s00403-007-0798

-x. Author Genji  
Imokawa 1 Affiliation 1  
Katayanagi Institute-  
W204, School of ...

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**mechanisms ...**

Characterizing the  
mechanism of  
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on fruits with a simple  
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competition for  
nutrients. Janisiewicz  
WJ, Tworkoski TJ,  
Sharer C. ABSTRACT  
Biocontrol agents may  
compete with  
pathogens for nutrients  
and space to delay or  
prevent decay of fruits  
after harvest. These

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mechanisms of  
biological ...

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Biological Nutrient  
Removal During  
Wastewater Treatment.

Article. Aug 2004;  
Peter F Strom. ...  
Simultaneous  
biological nutrient



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removal (SBNR) is the

...

**Peter STROM |  
Professor (Full) |  
Ph.D. | Rutgers, The**

...  
In the science of  
biology, a mechanism  
is a system of causally  
interacting parts and  
processes that produce  
one or more effects.

Scientists explain  
phenomena by  
describing mechanisms  
that could produce the

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phenomena. For example, natural selection is a mechanism of biological evolution; other mechanisms of evolution include genetic drift, mutation, and gene flow. In ecology, mechanisms such as predation and host-parasite interactions produce change in ecological systems. In practice, no descript

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**Mechanism (biology)  
- Wikipedia**

"We were interested in characterizing the biological underpinnings of some of these symptoms," says Eva-Maria Ratai, Ph.D., an investigator in the Department of Radiology and senior author of the ...

**Early details of brain damage in COVID-19 patients**

The research on

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nanozymes has increased dramatically in recent years and a new interdisciplinary, nanozymology, has emerged. A variety of nanomaterials have been designed to mimic the characteristics of natural enzymes, which connects an important bridge between nanotechnology and biological science.

Unlike natural

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enzymes, the  
nanoscale properties of  
nanozymes endow  
them with the potential  
to ...

## **Catalytic Mechanisms of Nanozymes and Their Applications ...**

Structural Disordering  
as a Mechanism of the  
Phase Contrast. Fig. 1A  
represents a schematic  
structure of an intact  
myelinated axon  
(intracellular water,

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myelin sheath, and extracellular water). Computer Monte Carlo simulations of the MR signal frequency shift were performed in the intact myelinated axon and an axon undergoing demyelination typical of multiple sclerosis (Fig. 1 B and C).

**Biophysical mechanisms of MRI signal frequency contrast in ...**

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Network Mechanisms  
of Learning and  
Memory, Systems  
Neuroscience,  
Computational  
Neuroscience, Machine  
Learning,  
Bioengineering,  
Neurotechnology.

Profile Our research  
focuses on the study of  
information processing  
across networks of  
neurons, with  
emphasis on the  
neuronal mechanisms  
that underlie learning

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and memory formation.

## **Thanos Siapas | Division of Biology and Biological Engineering**

After these enzymes activate oxygen, identifying and characterizing reaction intermediates in these enzymes is critical to the elucidation of structure/function correlations that govern their reactivity. The focus of this thesis



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is to define the oxygen activation mechanisms of the  $\alpha$ KG- and pterin-dependent enzymes.

## **Characterizing intermediates that govern reactivity in**

and characterizing individual reaction steps, and 2) propose a reaction mechanism constructed from a reasonable sequence of elementary steps.

The approach

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presented in  
**Determination of  
Complex Reaction  
Mechanisms** is profound  
ly different. It is based on  
the simple fact that  
today chemists are  
equipped with a  
powerful arsenal of  
analytical techniques ...

## **Determination of Complex Reaction Mechanisms. Analysis of ...**

Flying insects are  
Earth's most diverse

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taxonomic class. They exhibit remarkable abilities to locate resources while flying through complex 3D environments.

However, we still have not deciphered how flying insects integrate multiple stimuli and extract depth to locate distant targets. Here, we assessed long-range search behavior in tethered flies using virtual reality.

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**Characterizing long-range search behavior in Diptera using ...**

At a biochemical level we are extracting adhesive proteins, characterizing the proteins, and exploring how such macromolecules can bring about bulk adhesion. Several spectroscopic and microscopic methods are being used to provide direct

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observation of  
reactivity and bonding  
contained within these  
marine biological  
materials.

## **Characterization of Marine Biological ... - Purdue Chemistry**

Network Mechanisms  
of Learning and  
Memory, Systems  
Neuroscience,  
Computational  
Neuroscience, Machine  
Learning,  
Bioengineering,

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Neurotechnology.

Research Summary

Our research focuses on the study of information processing across networks of neurons, with emphasis on the neuronal mechanisms that underlie learning and memory formation.

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cd98f00b204e9800998  
ecf8427e.

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