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Learn from the best and brightest minds in chemistry! Hundreds of webinars on diverse topics presented by experts in the chemical sciences and enterprise.

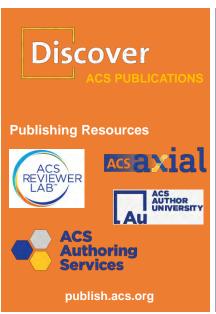
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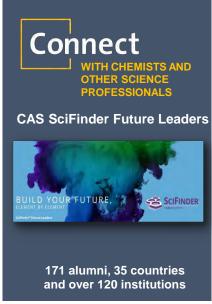
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Fecha: Miércoles, 1 de Diciembre, 2021 @ 2-3pm ET

Ponente: Josep Cornella, Max-Planck-Institut für Kohlenforschung

Moderadora: Ingrid Montes, Recinto de Río Piedras y American Chemical Society

Registrarse Gratuitamente

Lo Que El Público Aprenderá:

- El desarrollo de nuevos reactivos orgánicos que permitan una química orgánica práctica y fácil mediante la agilización de las rutas sintéticas
- El diseño de ligandos que convierten los metales de transición sensibles al aire en complejos robustos con una estabilidad notable frente a la oxidación y la temperatura
- El diseño de elementos p-block, en particular bismuto (Bi), con el objetivo de diseñar nuevos procesos catalíticos redox similáres a los metales de transición.

Co-producido con: Sociedad Química de México y Chemical & Engineering News



Date: Thursday, December 2, 2021 ⊕ 2.3 pm ET

Speakers: Javier Garcia Martinez, IUPAC and Rive Technology / Laura-isobel

McCall, University of Oklahomar J Diego Solis-Ibarra, Universidad Nacional

Autonoma de México / Corinna Schindler, University of Michigan

Moderators: jesuica Marshall and Michi; jacoby, Chemical & Engineering News

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What You Will Learn:

- What were the hottest trends in chemistry research during 2021, according to the experts
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Date: Thursday, December 9, 2021 @ 2-3pm ET Speaker: Paul Hodges, New Normal Consulting Moderator: Bill Carroll, Caroll Applied Science

II Applied Science

What You Will Learn:

- A breakdown of current employment and salary trends for chemists
- How long are the current supply chain and inflation issues going to last, and
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 Currently, the commodities chemical industry is based in large interdependent complexes in the Gulf of Mexico. Will the use of recycled materials in the future disrupt this for a more localized model?

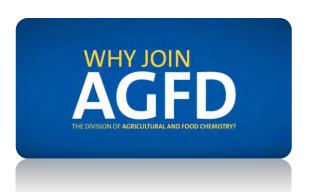
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ACS Division of Agricultural & Food Chemistry





AGFD brings together persons particularly interested in the chemistry of agricultural and food products, both raw and finished; to foster programs of general papers and symposia on special topics dealing with this field of chemistry; to promote such other activities as will stimulate activity in and emphasize the importance of research in agricultural and food chemistry.

Find out more about the ACS AGFD! https://www.agfoodchem.org





How Wildfire Smoke

Impacts the Quality of Wine





FREE Webinar | TODAY at 2pm ET (*) ACS Webinars



WILL WEBINAR BEGIN





How Wildfire Smoke Impacts the Quality of Wine





Presentation slides are available now! The edited recording will be made available as soon as possible.

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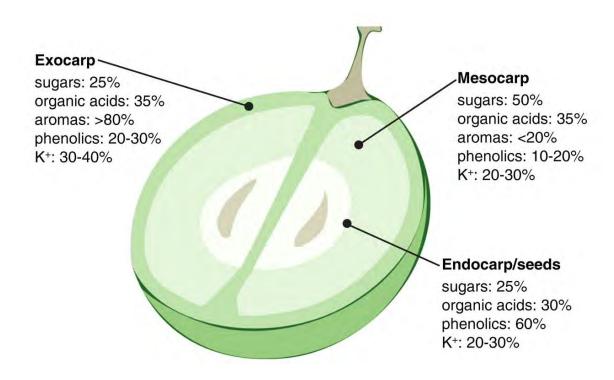




SMOKE-DERIVED VOLATILE PHENOLS AND RESVERATROL

Chemical structures of characteristic smoky aroma volatiles found in smoke from wood fire (guaiacol, 4-methylguaiacol, syringol, o-cresol, m-cresol, and p-cresol), and the naturally occurring grapevine metabolite *trans*-resveratrol.

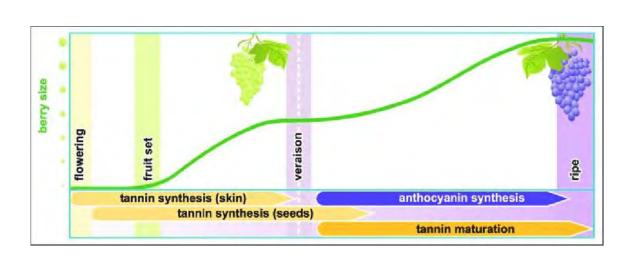
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Free smoke compounds

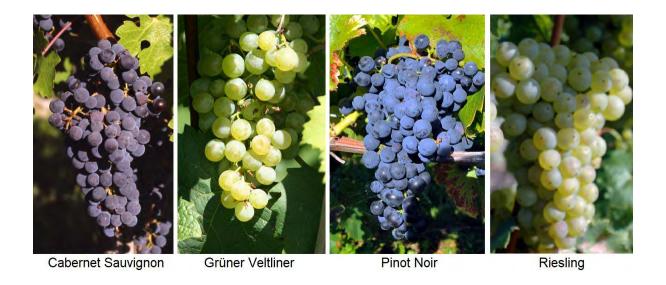
Bound smoke compounds

Total smoke compounds



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Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



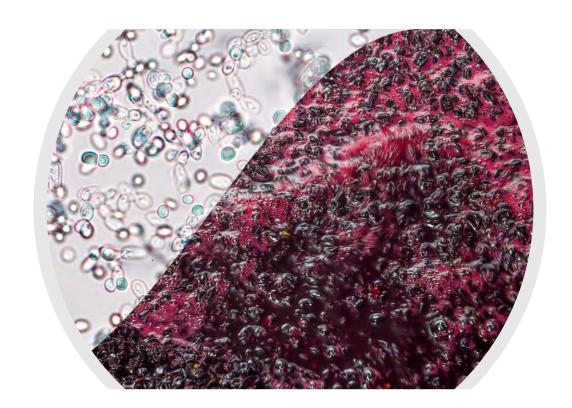
What is the main difference between red and white winemaking?

- Different grapes are used
- Grape skins are removed at different times
- Final alcohol content
- Grapes are bigger
- Nothing



^{*} If your answer differs greatly from the choices above tell us in the chat!

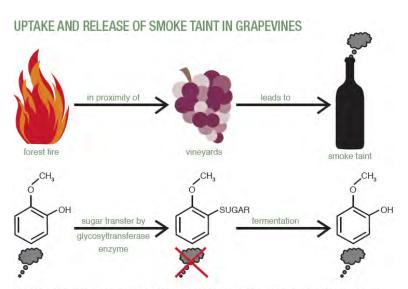












The above sequence is responsible for the uptake and release of smoke taint in grapevines. Sugars are added by a process called glycosylation and are cleaved off again during fermentation.

Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



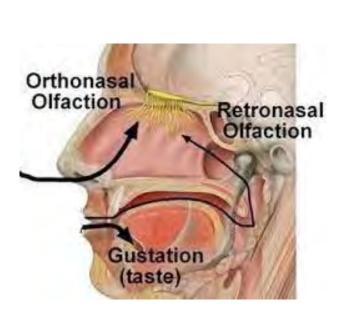
Which of the below is NOT an aroma compound?

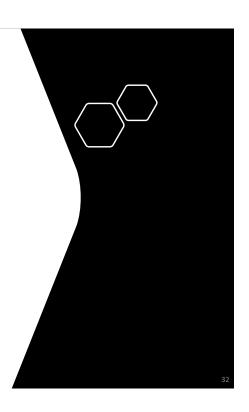
- Limonene
- · Ethyl butyrate
- Cresol
- Catechin
- B-ionone

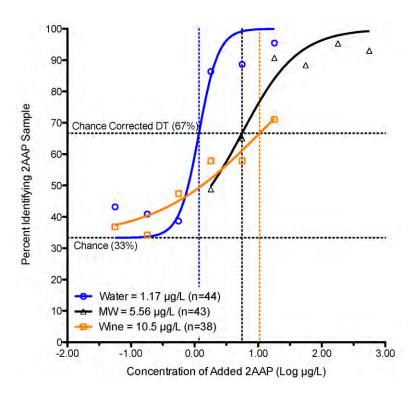


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3:









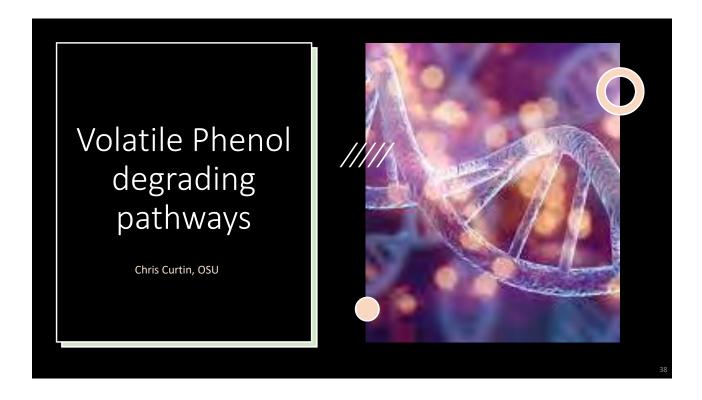


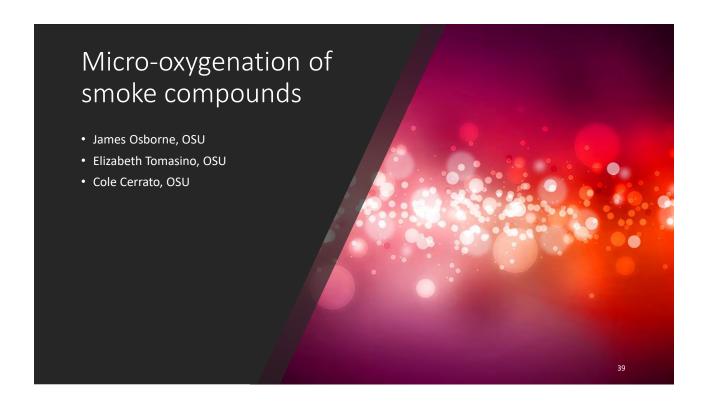


- · Carry over effects of smoke sensory analysis
 - Timing & rinses to remove this effect
 - Running now!
- What percentage of bound compounds are released in the mouth
 - Done in model solution with both bound & free aroma compounds
 - Spring 2021
- Compound interactions for smoke perception
 - Spring/summer 2021











• Take Aways

- Understand the complexities of grape smoke exposure both from chemistry and sensory standpoint
- We gave prevent/mitigate this issue, it will just take some time
- Wineries will never release low quality products, although wines may be limited on heavy wildfire years





YOUR QUESTIONS AND MAKE YOUR COMMENTS IN THE QUESTIONS PANEL NOW!





How Wildfire Smoke Impacts the Quality of Wine





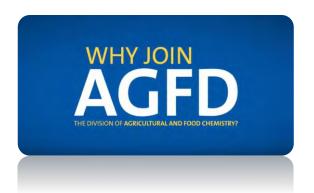
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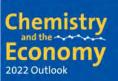
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