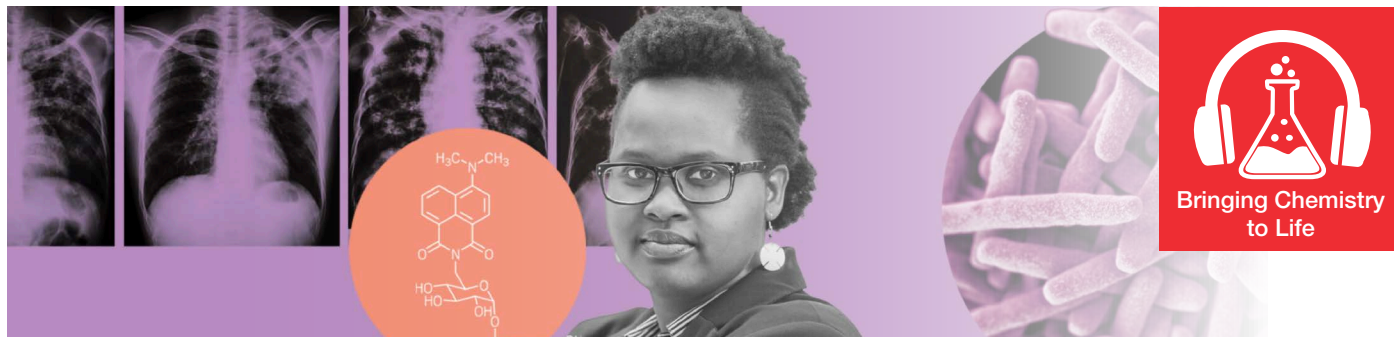


Bringing Chemistry to Life podcast series

ThermoFisher
SCIENTIFIC

Season 2: The 2020 C&EN's Talented 12

Episode 10: Biorthogonal chemistry, tuberculosis,
and making the best of opportunities



Episode abstract

Sometimes you feel like you missed an opportunity, or didn't make the best out of it, or sometimes you feel like life is unfair and doesn't offer any attractive chance. Then you hear stories like Mireille Kamariza's and your perspective changes.

This is a classic Bringing Chemistry to Life episode, where an incredible personal story is intertwined with great science. Dr. Mireille Kamariza, junior fellow at the Society of Fellows at Harvard University, is driven by her personal experience growing up in war-torn Burundi. She was given the opportunity to move and study in the U.S., rose to the challenge becoming an expert in biorthogonal chemistry and developed a technology for a highly reliable, yet simple and affordable, detection method for tuberculosis. Now Mireille, nominated as one of Fortune Magazine's most powerful women, wants to give back and aims at addressing the TB global health crisis thanks to her technology.

While listening to Mireille's personal story alone is well worth your time, make no mistake, there is great chemistry here. Another brilliant example of chemistry at the interface with biology, where some of the most exciting results in modern science come from.

About our guest

Dr. Mireille Kamariza

Junior Fellow – Harvard Society of Fellows, Postdoctoral Fellow at Broad Institute of MIT and Harvard, and Co-Founder and CEO of OliLux Biosciences, Inc.

Mireille's business site: <https://oliluxbio.com/>

C&EN Talented 12 profile of Mireille:
<https://cen.acs.org/biological-chemistry/infectious-disease/Mireille-Kamariza/98/i31>

Recent Publications from Mireille:

- [Rapid detection of Mycobacterium tuberculosis in sputum with a solvatochromic trehalose probe](#)
- [Pore-forming Esx proteins mediate toxin secretion by Mycobacterium tuberculosis](#)
- [Towards Point-of-Care Detection of Mycobacterium tuberculosis: A Brighter Solvatochromic Detect mycobacteria within minutes](#)
- [Imaging Mycobacterial Trehalose Glycolipids](#)

Mireille's Content Recommendations:

- [The Immortal Life of Henrietta Lacks](#) (A book by Rebecca Skloot)
- [The Broken Ladder: How Inequality Affects the Way We Think, Live, and Die](#) (A book by Keith Payne)
- [To Repair the World](#) (A book by Paul Farmer)
- [I Am Malala: The Girl Who Stood Up for Education and Was Shot](#) (A book by Malala Yousafzai)
- [Our Sister Killjoy](#) (A book by Ama Ata Aidoo)

This podcast series is available via the following links



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