

## SPEAKER



### NAME

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### BIOGRAPHY

2004-2010: Chemiestudium 2004 - 2010 an der RWTH Aachen  
2010-2013: Stipendiat der DFG geförderten International Research Training Group SeleCa (Selectivity in Chemo and Bio Catalysis, Deutschland-Japan)  
Insgesamt 7 Monate Forschung an der Osaka University (Japan) im Arbeitskreis Prof. Mashima  
Dezember 2013: Promotion in Organometallicchemie im AK Prof. Jun Okuda RWTH Aachen  
Mai 2014: Berufseinstieg bei SE Tylose GmbH & Co. KG (Shin-Etsu) als Laborleiter Anwendungslabor Pharma & Food  
Seit Oktober 2017: Technical Sales Director Pharma und Food, SE Tylose GmbH & Co. KG für die Regionen EMEA + LATAM

## LECTURE

### Overview on pharmaceutical applications of cellulose ethers

Cellulose ethers are ubiquitous in pharmaceutical dosage forms. Derived from cellulose they are semi-synthetic polymers showing high chemical and physical stability, and they are considered non-toxic. Being described in the pharmacopoeias since decades, cellulose derivatives found their way into standard formulation strategies in the development of drug products.

Cellulose ethers and esters are versatile excipients for oral and topical dosage forms. Within the solid dosage forms, cellulose ether applications span, depending on the substitution, from immediate release tablets over extended release tablets, to enteric coating. In the last decade, solubility enhancement of poorly soluble drugs with cellulose ethers and especially esters opened the door to new applications.

The presentation will cover cellulose ethers relevant for the pharmaceutical industry with emphasis on non-ionic methyl cellulose and hypromellose, and cellulose esters as hypromellose acetate succinate for oral solid dose.