



*toxins*



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## Botulinum Toxins in Clinical Practice

Guest Editors:

**Prof. Dr. Hee-Jin Kim**

Division in Anatomy and  
Developmental Biology,  
Department of Oral Biology,  
Human Identification Research  
Institute, BK21 FOUR Project,  
Yonsei University College of  
Dentistry, 50-1 Yonsei-ro,  
Seodaemun-gu, Seoul 03722,  
Korea

**Dr. Nark-Kyoung Rho**

Department of Dermatology,  
Sungkyunkwan University School  
of Medicine, 2066 Seobu-ro,  
Jangan-gu, Suwon, Gyeonggi-do,  
KOREA

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### Message from the Guest Editors

The study of botulinum neurotoxin (BoNT) extends beyond the treatment of neurologic disorders and facial wrinkles to include many off-label uses in clinical practice. With more and more studies being published, it is crucial for researchers to collect up-to-date scientific achievements in the emerging clinical applications of BoNT. In fact, what we still lack is the scientific evidence of less-investigated clinical applications of BoNT, particularly for aesthetic medicine and surgery. Providing clinicians and researchers with relevant scientific data will support a better understanding of the clinical efficacy of BoNT in medicine and surgery.

To this end, this Special Issue of *Toxins* on BoNT has been carefully compiled to provide scientific data on various clinical indications including facial aesthetic medicine and cosmetic surgery, non-surgical body contouring, hypertrophic scars and keloids, pain control, and rehabilitation medicine. Active uses of BoNT for treating common dermatological conditions such as acne and rosacea will also be reviewed. A discussion of the current practice patterns and over-the-edge uses of BoNT will be included.



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# Special Issue



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## Editor-in-Chief

### **Prof. Dr. Jay Fox**

Department of Microbiology,  
University of Virginia,  
Charlottesville, VA, USA

## Message from the Editor-in-Chief

Toxinology is an incredibly diverse area of study, ranging from field surveys of environmental toxins to the study of toxin action at the molecular level. The editorial board and staff of *Toxins* are dedicated to providing a timely, peer-reviewed outlet for exciting, innovative primary research articles and concise, informative reviews from investigators in the myriad of disciplines contributing to our knowledge on toxins. We are committed to meeting the needs of the toxin research community by offering useful and timely reviews of all manuscripts submitted. Please consider *Toxins* when submitting your work for publication.

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*Toxins* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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