Current Topics in Environmental Health and Preventive Medicine

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Allergy and Immunotoxicology in Occupational Health - The Next Step

Springer

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Preface

We published the second volume of this EHPM eBook series in 2017: *Allergy and Immunotoxicology in Occupational Health*. And this is a new eBook that, 3 years later, describes the next step.

As I wrote last time, the three editors will be working together in the Allergy and Immunotoxicology Scientific Committee (AISC) of the International Congress of Occupational Health (ICOH). The ICOH plenary meeting is held once every 3 years and will be held in Melbourne (Australia) in March 2021. Before that it was held in Dublin (Ireland) in 2018. In 2015 it was held in Seoul (Korea), and the previous eBook was published as a mid-term AISC activity between 2015 and 2018.

And this time, as a mid-term activity from 2018 to 2021, we decided to write this book again.

As in the previous case, we will also introduce new discoveries, following the previous case, regarding basic experimental systems related to allergy and immunotoxicity and immune abnormalities in respiratory disorders (pneumoconiosis) such as silica and asbestos. In addition, we talk about pesticide immunotoxicity—an old and new problem.

In addition, this time, a chapter was also set up on regulations on occupational medicine in relation to skin diseases and respiratory diseases. It does not specialize in occupational medicine at present, but also mentions immune reconstitution inflammatory syndrome.

In addition, taking into account clinical control and basic experiments, we devoted a number of chapters to nanomaterials to raise awareness of nanomaterials, which is a topic of recent times, as an AISC.

Readers of this book who are interested in ICOH, or who are already members of ICOH but did not know about AISC, should definitely stop by the AISC session at the 2021 meeting in Melbourne. I want you. During Dublin in 2018, I had many poster presentations with two symposiums and two oral presentation sessions. Participants from Europe also actively asked questions about basic aspects and controls in the field of occupational medicine. In addition, presentations from Africa were presented at the symposium.

In particular, from the viewpoint of allergy and immunotoxicity, there is a complex background to pay attention to in the basic occupational health activities and in the health care of workers. Therefore, it is necessary to study carefully on the issues of normal occupational health and health and also to understand the basics of allergology, immunology, and toxicology before responding. And it is also important to take precautionary measures, so further consideration of all AICS members will be important.

Among these perspectives, the eBook published in 2017 and the book *Allergy and Immunotoxicology in Occupational health: The Next Step* are intended to improve the health of readers, all researchers related to occupational health, and even workers. We hope to contribute to disease prevention.

Kurashiki, Japan — Takemi Otsuki
Chieti, Italy — Mario Di Gioacchino
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Introduction

This eBook highlights the importance of allergy and immunotoxicity, especially in occupational medicine. Examples of the substance include nanomaterials, pesticides, fibers, and particulate matter (silicic acid and asbestos). An important viewpoint is respiratory and skin diseases and their clinical regulation or prevention of health disorders due to allergies and immunotoxicity. This year, the second tier of the eBook, published in 2017 as *Allergy and Immunotoxicology in Occupational Health*, added the phrase "The Next Step" to the title. Also, the three editors are the same as the previous one, but all are active members of the Allergy and Immunotoxicology Scientific Committee (AISC) of the International Congress in Occupational Health (ICOH), and the previous book was ICOH 2015 and 2018 The Next Step will be published as an activity of the AISC during this year's main competition and this year's The Next Step. Many thanks to readers who are interested in occupational health and allergies and immunotoxicity.

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