





8th World Conference on Pharmaceutical Science and Drug Manufacturing

17th & 18th April 2021 | Bangkok, Thailand

This is to certify that

Ishtiaq Jeelani

has presented his/her research paper titled

Total synthesis of biologically active natural products with 6H-Dibenzo[b,d]pyran- 6-one using Palladium catalyzed biaryl coupling reactions.

which has been awarded as **BEST POSTER PRESENTATION** in

"8th World Conference on Pharmaceutical Science and Drug Manufacturing"

Organized by BioLeagues Worldwide and Association of Pharmaceutical Research (APR)

on 17th & 18th April 2021 at Bangkok, Thailand.

Dr. Sergey Suchkov

Director & Professor Sechenov University Russia MR Mozafari

Prof. Marcel Mozafari

President and Founder Australasian Nanoscience & Nanotechnology Initiative (ANNI) Australia APR Resident

Dr. S.N. Sriharsha

Principal and Professor
Hillside College of Pharmacy
and Research Centre
India

8th World Conference on Pharmaceutical Science and Drug Manufacturing



17th - 18th April 2021



Total Synthesis of Biologically Active Natural Products with 6hdibenzo[B,D]Pyran-6-One Using Palladium Catalyzed Biaryl Coupling Reactions





Ishtiaq Jeelani

Graduate School of Innovative Life Science, University of Toyama, 3190 Gofuku 930-8555, Japan

Hitoshi Abe

Faculty of Engineering, University of Toyama, 3190 Gofuku, Toyama 930-8555, Japan

Katsunori Itaya

Faculty of Engineering, University of Toyama, 3190 Gofuku, Toyama 930-8555, Japan

Abstract

Avariety of natural products, which possess the 6H-dibenzo[b,d]pyran-6-one core has attracted our interest because of their unique biological activities. A palladium-mediated intramolecular arylaryl coupling reaction was applied to the total synthesis of the bioactive natural products, Hyalodedriol C, and Urolithin C 3-Glucuronide, which possess 6H-dibenzo[b,d]pyran-6-one skeleton. These compounds are known to be a naturally occurring bioactive compound that possesses potential biological properties like antifungal, antibacterial, antioxidant, larvicidal, anti-inflammatory and anticancer properties. The interesting structural feature of hyalodendriol C is the aromatic ring bearing chlorine atom on it. Natural products comprising a halogen on an olefinic, aromatic, heteroaromatic moieties as a substituent have gained considerable interest because of their multiple biological activities. Keeping in view, the indispensable biological values of these compounds, we took the advantage of our established strategy to chemically synthesize hyalodedriol C, and Urolithin C 3-Glucuronide. We have reported several natural product syntheses using the Pd-mediated intramolecular biaryl coupling reaction6 with phenyl benzoate derivatives for forming the 6H-dibenzo[b,d]pyran-6-one ring system. Utilizing this transformation, we planned the efficient syntheses of hyalodedriol C, and Urolithin C 3-Glucuronide.

ISBN: 978-93-90214-28-0 8th WCPSDM 2021

1st Prize: Ysabel Ann C. de Ocampo from University of Santo Tomas Graduate School, Philippines

2nd Prize: DIBYA DAS from JIS University, India

3rd Prize: CHOTIRAT NAKARANURACK from Chulalongkorn University, Thailand

The Best Poster Presentation:

Ishtiaq Jeelani from University of Toyama, Japan

2nd Prize: Fauzia Azzahra from Bandung Institute of Technology, Indonesia

3rd Prize: JEEVITHA M from J.K.K.Nattraja College of Pharmacy, India and Wasim Akram from Jiwaji University, India

The Best Research:

1st Prize: DEBARSHI KAR MAHAPATRA from Dr. Hari Singh Gour Vishwavidyalaya, India

2nd Prize: Dr. Nitish Bhatia from Khalsa College of Pharmacy, India

3rd Prize: Kumar Sougata & Preetam Kumar Khatua from NSVK Sri Venkateshwara Dental College and Hospital, India

The Women Excellence Award:

- Hilal Basak EROL from Ankara University, Turkey
- · M.Sunitha Reddy from Centre for Pharmaceutical Sciences, JNTUH, India

The Young Researchers Award:

· Nitin Singh from Jiwaji University, Gwalior, India

Let me know if you have any queries.

Awaiting your supportive response.

Regards,

Ms. Sravani Bodipudi,

Research Associate | 8th WCPSDM 2021, BioLEAGUES Worldwide.

Contact: +91-9884076645