Virtual Conference on Chemistry and its Applications

Research and Innovations in Chemical Sciences: Paving the Way Forward

1st to 31st August 2020

This is to certify that

Noviany

participated in the Virtual Conference on Chemistry and its Applications, VCCA-2020 (1st to 31st August 2020) with an abstract entitled

"A New Naturally Biisoflavonoid Constituent from Indonesian Sesbania grandiflora Plant".

Chairman of the Organising Committee

Prof Ponnadurai Ramasami

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Welcome Message

Chemistry is one of the subjects of Science for understanding and explaining makeup and changes of everything that has mass and occupies space. Chemistry has permeated the study of different branches of Science. In the previous years, we organised the Virtual Conference on Computational Chemistry (2013-2015) and Computational Science (2016-2019). This year, due to travel restrictions as a result of COVID-19, we are organizing the Virtual Conference on Chemistry and its Applications, VCCA-2020, from 1st to 31st August 2019. The theme for VCCA-2020 is "Research and Innovations in Chemical Sciences: Paving the Way Forward".

VCCA-2020 offers an opportunity for researchers to present their work, interact using a virtual platform, discuss problems and find possible solutions. Virtual conference has gained popularity and one of the advantages is the lower cost involved for participation. One simply has to have access to the internet or e-mail to be involved in the conference and one does not have to be always online. 300 participants from 48 countries have registered for the conference. We received 194 abstracts and there 5 Nobel Prize presentations, 33 keynote presentations and 153 presentations.

As part of VCCA-2020, we will mark the Schrödinger day and International Youth Day on 12th August 2020 to commemorate the birth anniversary of Erwin Schrödinger by having a capacity building workshop. The workshop in collaboration with Elsevier will be targeted to young scientists who will embark on research. The programme of the workshop will consist of live interactions and talks related to research induction.

We would like to thank the International Advisory Members and reviewers of the abstracts. We would also like to acknowledge the endorsement of the virtual conference by IUPAC and the support from the ICTP, OPCW and Springer. We are planning to have the proceedings of VCCA-2020 as publications in Pure and Applied Chemistry and a book of proceedings to be published by De Gruyter. We would also like to acknowledge all facilities from the University of Mauritius.

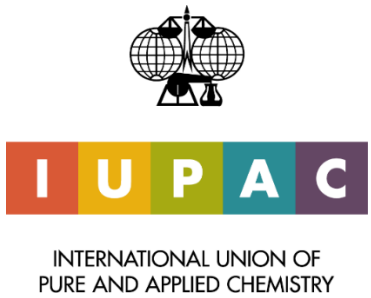
We look forward to your participation and we hope that one will have an enriching experience extending over one month.

Professor Ponnadurai Ramasami

Chairman of VCCA-2020
Personal Chair in Computational Chemistry, University of Mauritius
Visiting Professor, University of Johannesburg
Professor Extraordinarius, University of South Africa

Endorsement of VCCA-2020

International Union of Pure and Applied Chemistry



Sponsors of VCCA-2020

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International Centre for Theoretical Physics

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Springer

University of Mauritius

Organising Committee of VCCA-2020

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A New Naturally Biiosoflavonoid Constituent from Indonesian *Sesbania grandiflora* Plant

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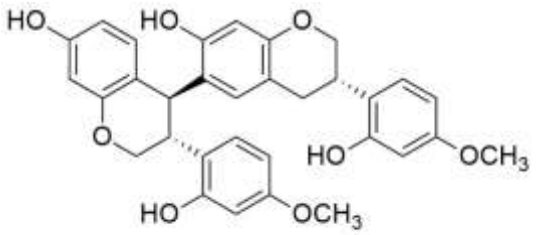
A new naturally isoflavonoid dimer compound has been successfully isolated from the ethyl acetate extract of the roots of Indonesian *Sesbania grandiflora* plant. We reported herein the isolation and characterization of a new biisoflavonoid with (4→6) inter-isoflavanyl linkage, namely sesbagrandiflorain D (**1**). The structure elucidation of sesbagrandiflorain D was performed using 1D and 2D NMR, UV spectroscopy, and HRESI mass spectrometry as well as the comparison with the previous reported data. This compound was isolated for the first time from a natural source, it has been previously reported as a synthetic compound, which is synonymous with 3,4- *trans*-4-[(3*S*)-7,2'-dihydroxy-4'-methoxyisoflavan-6-yl]-7,2'-dihydroxy-4'-methoxyisoflavan[1]. This study indicates that the roots of *S. grandiflora* could be used as a potential natural source for future development.



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1. B. C. B. Bezuidenhoudt, E. V. Brandt, and D. G. Roux, Journal of the Chemical Society, Perkin Transactions 1, 1984, 2767-2778.