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Research Area: Organic
Chemistry, Chiral Catalysis,
Natural Product Synthesis
and sustainable resources

Personal Details

Permanent Address

Jayabhavan, Santhi Nagar-1

Ayathil P.O.

Kollam, PIN-691021

Mob: 08281828383

Email:

jkchithra@gmail.com

Academic Background

Education

1998-2 : Ph.D. (Synthesis)
Organic Chemist
Mahatma Jyoti Basu
University

2001 : National Eligibility
Examination NET

1997 : GATE -97

1995-1 : M.Sc. Chemistry

Professional Profile

2024- p Assistant Pro
Department of Che
TKMCAS

2020(Ai Principal and DD(

2024(Ni *charge*),
TKM College of Art
Sciences, Kollam - 05

2013-2(Assistant Pro
Department of Che
TKMCAS

2011-2(Assistant Professor (a
at Dehi University,
Delhi

2008-2(Women Scientist-C S
in IPR by DST-TIF/
TIFAC,
New Delhi

Distinctive Achievements

1. Institutional Leadership

- Successfully guided the institution through the NAAC evaluation process, securing the prestigious A++ accreditation with highest CGPA of 3.67 (on a 4-point scale) in 2022. This accomplishment underscores the institution's unwavering dedication to academic excellence and quality education.

2. Jury Membership

- Serving as a Jury member for the Prof., K. A.Jaleel 'Best School Award" by

PM Foundation since 2019.

3. Conference Coordination

- Coordinated the **International Conference** on Tropical Plants and Molecular Design in February 2017, organized by the Post Graduate and Research Department of Chemistry, TKM College of Arts and Science.
- Organized the visit of **Nobel Laureate Prof. Ei-ichi Negishi** to TKM College of Arts and Science in 2014

4. Resource Person

- Served as a **Resource Person** at the Research Generation Camp for the National Chemistry Olympiad, hosted by the Homi Bhabha Center for Science Education (HBCSE), TIFR, Mumbai.

5. Innovative Research

Secured one **US Patent** and two **Indian Patents** during Ph.D. research at M.G. University.

Publications and Patents

1. Simimole Haleema, **Chithra Gopinath**, Zabeera Kallingathodi, Grace Thomas and Prasad L. Polavarapu, Medicinally Significant Enantiopure Compounds from Garcinia Acid Isolated from Garcinia gummi-gutta, *Symmetry***2024**, 16(10), 1331 (Invited article)
2. A.N. Anoopkumar., **Chithra Gopinath**, Surendhar Annadurai, S. Abdullah, Ayon Tarafdar, Sulfaath Hakkim Hazeena, Reshmy Rajasekharan^f, Layal Liz Kuriakose, Embalil Mathachan Aneesh, Luciana Porto de Souza Vandenberghe, Julio Cesar deCarvalho, Carlos R. Soccol, Parameswaran Binod, Aravind Madhavan, Raveendran Sindhu, Biotechnological valorisation of cashew apple: Prospects and challenges in synthesising wide spectrum of products with market value, *Bioresource Technology Reports*, **2024**, 25,101742
3. Swathy Unnikrishna Pillai Saraswathy, Lekshmi Chandran Pillai Lalitha, Sherifa Rahim, **Chithra Gopinath**,

Simimole Haleema,
 Sumalekshmy
 SarojiniAmma, Hassan
 Y. Aboul-Enein, Review
 on Synthetic and
 Pharmacological
 Potential of
 Compounds Isolated
 from Garcinia
 mangostana Linn,
Phytomedicine Plus,
2022,2, 100253

4. Deenamma Habel.;
 Divya S. Nair.; Zabeera
 Kallingathodi.; Chithra
 Mohan.; Sarath M.
 Pillai.; Rani R. Nair.;
 Grace Thomas.;
 Simimole Haleema.;
Chithra Gopinath.;
 Rinshad V.;
 Abdul,Matthew Fritz.;
 Andrew R. Puente.;
 Jordan L. Johnson.;
 Prasad L. Polavarapu.;
 and Ibrahim Ibnusaud,
 Natural Product-
 Derived Chiral
 Pyrrolidine-2,5-diones,
 Their Molecular
 Structures and
 Conversion to
 Pharmacologically
 Important Skeletons.
*Journal of Natural
 Products* (ACS), **2020**,
 83, 2178.

5. Osman, S. M., Abdel-
 Megied, A. M., Zain
 Eldain, M. H.,
 Simimole, H.,
Gopinath, C.,
 Sumalekshmy, S., and

About-Enein, H. Y., A highly sensitive GC–MS method for simultaneous determination of anacardic acids in cashew (Anacardium occidentale) nut shell oil in the presence of other phenolic lipid derivatives, *Biomedical Chromatography*, **2019**, 33, 4659

6. Prasad L. Polavarapu, Emily Donahue, Ganesh Shanmugam, Ibrahim Ibnusaad, Divya S. Nair, **Chithra Gopinath** and Deenamma Habel, Chiroptical spectroscopy of Natural products: Avoiding the Aggregation of Chiral Carboxylic Acids, *J. Nat. Prod. (ACS)*, **2012**, 75, 1441–1450
7. **Chithra Gopinath**, Salini Thomas, Mangalam S. Nair and I. Ibnusaad, Analogues of Quararibea Metabolite chiral enolic - γ -lactones from (2*S*, 3*S*) and (2*S*, 3*R*)-tetrahydro-3-hydroxy-5-oxo-2, 3-furandicarboxylic acid *Tetrahedron Letters*, **2006**, 47, 7957-7960.

8. **U.S. Patent No. 6,703,515**, (9th March 2004)CAN 138:369115.

Chiral Derivatives of Hibiscus acid bearing lactone ring moiety, process for preparing the same and a convenient method for the large-scale isolation of Hibiscus acid. Ibnusaud, I., **Gopinath, C.**, Thomas, B.

9. Indian patent no: 192481(2004)

Novel Chiral Derivatives of Hibiscus acid bearing lactone ring moiety and process for preparing the same, Ibnusaud, I.,**Gopinath, C.**; Thomas, B.

10. Indian patent no. 1425/Del/03, **2003**

A Process of Preparing Novel Chiral compound of Hibiscus acid bearing lactone ring moiety, Ibnusaud, I.,**Gopinath, C.**;Thomas, B.

Meetings/Workshops/Seminars Organized

1. Coordinator for the academic visit of Prof. Ei-ichi Negishi (Nobel Laureate in Chemistry) in February 2014 at TKM College of Arts and

Science. During the visit, Prof. Negishi delivered the Thangal Kunju Musaliar Commemorative Lecture 2014.

2. Coordinator of the International Seminar on Tropical Plants and Molecular Design, held in February 2017, organized by the Post Graduate and Research Department of Chemistry, TKM College of Arts and Science. The seminar featured eminent scientists from the USA, UK, Egypt, Sri Lanka, and India, including speakers from IISc, IIT, and IIMR. The event was sponsored by the Royal Society of Chemistry (RSC), which supported the participation of a distinguished professor.
3. Resource Person for SASTHRA PADHAM, a science promotion program for high school students, organized in January 2019 by Samagra Shiksha Kerala, the Directorate of Collegiate Education, and the Department of Higher Secondary Education hosted at TKM College of Arts and Science.

4. Resource Person for SASTHRA JAALAKAM, a science promotion program for high school students, conducted by the Government of Kerala (Higher Secondary Education) hosted at TKM College of Arts and Science.

Awards/Recognition/Fellowship from State/National/Government-Recognized Body

- Received the Best Poster Award presented by the Royal Society of Chemistry at the International Seminar on 'Tropical Plants and Molecular Design', organized by T.K.M. College of Arts and Science on 14th and 15th February 2017