



Name Faculty: Dr. BALAJI CHINTAMAN MUNDHE

Designation: Assistant Professor

Email: balajimundhe@ternaengg.ac.in.

Address for Correspondence:

304, Ruby Apartment sector 30 D, Gothivali Rabale Navi Mumbai - 400701.

Professional Qualification:

Ph.D. (Chemistry), University of Mumbai, Department of chemistry, Vidya Nagari, Kalina, Santacruz East, Mumbai, Maharashtra 400098.

Short Biodata:

Ph.D. [2016] thesis entitled "*PHYSICOCHEMICAL AND CHROMATOGRAPHIC STUDY ON SOME ANTICANCER DRUGS*" from University of Mumbai, with *thirteen patents filed to Indian patent office, nine published papers in reputed journals* along with *four oral and poster presented at conferences*. A competent professional with over 15 years of rich Industrial Research experience in the department of Analytical Research and Development at various pharmaceuticals industries.

Presently working for Terna engineering college as **Assistant Professor in Engineering Chemistry** since Nov-2022.

Patents/ Products/ Consultancy:

Products Developed:

Nil.

Patents:

PATENTS FILED TO INDIAN PATENT OFFICE:

1] "In vitro study on the binding of streptozocin to bovine serum albumin." **2532/MUM/2015**

- M. M. V. Ramana*, **Balaji Mundhe**, Rahul Betkar, Amey Nimkar, Prasanna Ranade
- 2] "Rapid methods for determining binding between serum albumin and Azacitidine, an anti-cancer drug." **2533/MUM/2015**
- M. M. V. Ramana*, **Balaji Mundhe**, Rahul Be
tkar, Amey Nimkar, Prasanna Ranade
- 3] "A process for the preparation of o-substituted Benzophenone derivatives." **443/MUM/2014**
- M. M. V. Ramana*, Rahul Betkar, Amey Nimkar, Prasanna Ranade, **Balaji Mundhe**
- 4] "A process for the preparation of 6-amino-5-cyano-2-methyl-4-aryl-4H pyran-3-carboxylates." **1486/MUM/2014**
- M. M. V. Ramana*, Rahul Betkar, Amey Nimkar, Prasanna Ranade, **Balaji Mundhe**
- 5] "Rapid methods for determining binding between serum albumin and nevirapine, an anti-retroviral drug." **2681/MUM/2014**, (online copy available)
- M. M. V. Ramana*, Rahul Betkar, Amey Nimkar, Prasanna Ranade, **Balaji Mundhe**
- 6] "A process for synthesis of Benzopyranyl pyrimidine derivatives." **4052/MUM/2014**
- M. M. V. Ramana*, Prasanna B. Ranade, Rahul R. Betkar, Amey Nimkar, **Balaji C. Mundhe**.
- 7] "A process for the synthesis of 10b-aryl substituted thiazolo [2, 3-a] isoquinoline derivatives." **4213/MUM/2014**
- M.M.V.Ramana*, Prasanna B. Ranade, Rahul R. Betkar, Amey Nimkar, **Balaji C. Mundhe**.
- 8] "The process for the synthesis of 10B alkyl substituted thiazolo [2, 3-a] isoquinolene derivatives" **413/MUM/2015**
- M. M. V. Ramana*, Prasanna Ranade, Rahul Betkar, Amey Nimkar, **Balaji Mundhe**
- 9] "A process for the synthesis and spectroscopic investigation of binding of 10B cyclobutyl-5, 6- dihydro 2H thiazolo[2,3A]-isoquinolene-3-(10H)-1-one with BSA" **414/MUM/2015**.
- M. M. V. Ramana*, Prasanna Ranade, Rahul Betkar, Amey Nimkar, **Balaji Mundhe**
- 10] "In vitro methods for determining alteration of bovine serum albumin environment upon interacting with 2-amino-4-(3-chlorophenyl)-4H-benzo[h] chromene-3-carbonitrile" **948/MUM/2015**
- M. M. V. Ramana*, Amey Nimkar, Rahul Betkar, Prasanna Ranade, **Balaji Mundhe**
- 11] "A process for the synthesis and spectroscopic investigation of binding of 13A-(thiophene-2-yl)-5,6-dihydrobenzo[5, 6]oxazino[2, 3A] isoquinole-3-(10H)-1-one with BSA" **1011/MUM/2015**.
- M. M. V. Ramana*, Prasanna Ranade, Rahul Betkar, Amey Nimkar, **Balaji Mundhe**
- 12] "Spectroscopic methods for determining interaction of 3-amino-1-(3-fluorophenyl)-1H-benzo[f]chromene-2-carbonitrile with bovine serum albumin." **1395/MUM/2015**
- M. M. V. Ramana*, Amey Nimkar, Rahul Betkar, Prasanna Ranade, **Balaji Mundhe**
- 13] "Biophysical methods to determine the mode of binding of streptozotocin to HS DNA" **3731/MUM/2015**
- M. M. V. Ramana*, **Balaji Mundhe**, Rahul Betkar, Amey Nimkar, Prasanna Ranade

Consultancy Projects:

Nil

Reviewer:

Nil

Major Subjects:

Organic chemistry, Analytical chemistry.

List of Publication:

1] "Natural and virtually designed flavonoids: Potential anti-HCV targets *in silico* approach."

M. M. V. Ramana*, Amey Nimkar, Rahul R. Betkar, Prasanna B. Ranade, **Balaji Mundhe**.

J. Chem. Pharm. Res., **2015**, 7, 82.

2] "In vitro DNA binding studies of antiretroviral drug nelfinavir using ethidium bromide as fluorescence probe."

M. M. V. Ramana*, Rahul R. Betkar, Amey Nimkar, Prasanna B. Ranade, **Balaji Mundhe**.

J. Photochem. Photobio B: Biology, **2015**, 151,194.

3] "Synthesis of a novel 4H-pyran analog as minor groove binder to DNA using ethidium bromide as fluorescence probe."

M. M. V. Ramana*, Rahul R. Betkar, Amey Nimkar, Prasanna B. Ranade, **Balaji Mundhe**, Sachin Pardeshi.

Spectrochim. Acta, Part A, **2015**, 152, 165.

4] "Green synthesis of thiazolo [2, 3-a] isoquinolines using silica sulphuric acid under microwave irradiation"

M. M. V. Ramana*, Prasanna B. Ranade, Rahul R. Betkar, Amey Nimkar, **Balaji Mundhe**.

Heterocycl. Lett., **2015**, 5, 451.

5] CsOH/ γ -Al₂O₃ Catalyzed mild and efficient method for the synthesis of novel multifunctionalized 4H-Pyran derivatives via one pot three component protocol *Heterocyclic Letters* 2015 ,5,1, 85-95

M.M.V. Ramana, Rahul Betkar, Amey Nimkar, Prasanna Ranade, **Balaji Mundhe**

6] KF-Al₂O₃ Mediated Microwave Assisted One Pot Synthesis of Benzopyranyl pyrimidines.

World Journal of Pharmaceutical Research 2015, 4, 7, 1510-1516.

M. M. V. Ramana, Prasanna B. Ranade, Rahul R. Betkar, Amey P. Nimkar, **Balaji C. Mundhe**.

7] Chalcones: Potential antidengue targets in silico approach. *Journal of Computational Methods in Molecular Design* 2015, 5, 3, 104-105.

M.M.V.Ramana, Prasanna B. Ranade, Rahul R. Betkar, Amey P. Nimkar, **Balaji C. Mundhe** and Shanta Bhar.

8] Flavones: Potential antidengue targets in silico approach *Journal of Chemical and Pharmaceutical Research* 2015, 7, 8, 585-591.

M.M.V.Ramana, Prasanna B. Ranade, Rahul R. Betkar, Amey P. Nimkar, **Balaji C. Mundhe** and Shanta Bhar.

9] Flavanones: Potential antidengue targets in silico approach. *Journal of Chemical and Pharmaceutical Research* 2015, 7, 9, 469-474.

M.M.V.Ramana, Prasanna B. Ranade, Rahul R. Betkar, Amey P. Nimkar, **Balaji C. Mundhe** and Shanta Bhar.

Journal Publications:

Nil

Conferences and Workshops Publications:

ORAL AND POSTER PRESENTED AT CONFERENCES:

1] Oral Presentation on “Spectroscopic Investigation of Binding of Nevirapine with Bovine Serum Albumin” at “International Symposium in New Horizons in Chemistry” (ISNHC-2014) organized by Department of Chemistry, Vivekanand Education Society’s College of Arts, Science and Commerce on 08th -09th December 2014.

M.M.V.Ramana, Prasanna B. Ranade, Rahul R. Betkar, Amey P. Nimkar, **Balaji C. Mundhe**. (First Rank)

2] Presented a poster entitled “Synthesis of substituted thiazolo [2, 3-a] isoquinolines”

At National Symposium on “Emerging Trends in Chirality, Medicinal Chemistry and Perfumery (ETCMP 2015)” at V. G. Vaze College, Mulund (E), Mumbai, on 04th February 2015.

M.M.V.Ramana, Prasanna B. Ranade, Rahul R. Betkar, Amey P. Nimkar, **Balaji C. Mundhe**.

3] Oral Presentation on “A process for synthesis and spectroscopic investigation of binding of 10b cyclobutyl-5, 6-dihydro-2H-thiazolo [2, 3-a] isoquinolin-3(10bH)-one with Bovine Serum Albumin.” at UGC-SAP Sponsored “National Conference on Advances and Innovations in Chemical Sciences”(NCAICS-2015) at Department of Chemistry, University of Mumbai on 12th -13th February 2015.

M.M.V.Ramana, Prasanna B. Ranade, Rahul R. Betkar, Amey P. Nimkar, **Balaji C. Mundhe**.

4] Presented a poster entitled “One pot synthesis of 2-amino-4, 6-diaryl pyrimidines using Cesium hydroxide-Alumina” at “International Symposium in New Horizons in Chemistry” (ISNHC-2014) organized by Department of Chemistry, Vivekanand Education Society’s College of Arts, Science and Commerce on 08th -09th December 2014.

M.M.V.Ramana, Amey P. Nimkar, Rahul R. Betkar, Prasanna B. Ranade, **Balaji C. Mundhe**.

Research and Scholarly Contributions:

Nil

Funding Received:

Nil

Software Tools:

MS-Office, SAP QM Module 4.7 Version,

Professional Association:

Nil

Experience:

Assistant Professor, Terna Engineering College, Nerul, Navi Mumbai Nov-2022 Till date.

Deputy General Manager cum HEAD of Department. Analytical Research Development.

Venus Remedies Limited, Baddi.

Mar' 2018 to Nov 2022

Jr. Research Scientist. Analytical Research Development

Macleods Pharmaceuticals Limited, Mumbai

Sep'2007 to Feb 2018.

Quality Control. Officer

Glenmark Pharmaceuticals Limited, Mohol

Sep'2004 – Aug'2007

Quality Assurance / Quality Control Chemist

Harman Finochem Limited., Aurangabad

Mar'2004–Aug'2004

Innotech Pharma Limited, Aurangabad

Quality Control Chemist

Mar'2000 to Aug'2000

Quality Control Chemist

Mar'2003 to Feb'2004

Responsibilities Handled:

Teaching Engineering Chemistry,

University FE Semester –I Paper evaluation.

Talks/Guest Lectures Delivered:

Nil

SESSION CHAIR/JUDGE

Nil

Declaration

I hereby declare that the foregoing information are correct and complete to the best of my knowledge.

Faculty Name: Dr. BALAJI CHINTAMAN MUNDHE

Place: Navi Mumbai