

SUMMARY

Science Expertise: Ph.D. Organic Chemistry with five years post-doctoral research experience in multi-disciplinary research focusing synthesis and characterization of biopolymers. Application of Quantum Chemistry methods for synthetic process. Published research articles in a peer reviewed scientific journals.

Business Expertise: More than 12 years' professional experience in managing startup; negotiated business contracts; worked with domestic and international suppliers; Managed upstream and downstream supply chain process; Quality and Compliance auditing; Laboratory instrument management, and Regulatory advisory.

Finance: FINRA series 7 License (expired).

Computer expertise: Microsoft suite, SAP, JMP, and Trackwise.

Regulatory and Compliance Expertise: ISO standards, RAPS certificate on Medical Devices, and FDA regulations.

Leadership: Employee Engagement Champion for the year 2021 representing global LS R&D, Milliporesigma. Sounding board member, STP, Merck Innovation Center, Darmstadt. New project evaluator for Innospire program, Merck Innovation Center, Darmstadt.

Skills

- Scientific & Business data analysis
- Regulatory Knowledge
- B2B Marketing
- Business acumen
- Finance knowledge
- Cross-functional collaboration
- Excellent communicator and patient listener
- Professional demeanor and strong work ethic
- Rational approach to problems
- Attention to detail

PROFESSIONAL EXPERIENCE

QC/QA Liaison, Milliporesigma, Sheboygan Falls, WI Aug 2019 – Present

Role: QA Liaison

Responsibilities:

- Representing SHB QC for internal and external audits
- Peer reviewer of Design of Experiment (DoE) documents
- Statistical analysis of analytical data for process improvement
- Product deep dive preparation - customer focused
- Using SAP for material approval and clearance
- Regular member of customer focused product management meetings
- Subject matter expert in chemicals and materials for Pharma and Semi-conductor research
- Managing work orders in Laboratory Instrument Management System (LIMS)
- Working with QA for CAPA resolution and Tracwise Deviation on materials and analytical instruments.
- Managing GDP and Quality Incident Reports (QIRs)
- Writing SOPs
- Managing analytical lab instrument/equipment Calibration, Performance Verification and PM functions.
- Knowledge of Quality Management Systems
- Managing change control process for Electronics and Life Science materials.
- Completed Merck sponsored training on Innovative Leadership Curriculum
- Worked with site management for new initiatives and programs.

Independent consultant, February 2017 – July 2019

Advising clients in the areas of regulatory, data analysis, R&D and business development.

PMD, Merrill Lynch, June 2016 - Jan 2017

Role: Financial Advisor

License: Series 7 FINRA

Chemoinformatics Consultant (contractor), Merck & Co, Rahway, NJ. March 2007 – Nov 2007.

Pharmaceuticals data management; helping chemists and biologists with structure correction, registration, molecule inventory and validation of Merck's proprietary database.

Jan 2006 - Apr 2016, Managing Member, Stallion Business Ventures LLC.

Projects: I have provided third party vendor support to various manufacturers of small and medium enterprises (SMEs). Services include marketing, product promotion, supply chain management, technical, compliance and regulatory advisory.

Products: Commodity chemicals, APIs, and raw materials.

Responsibilities:

- Responsible for executing source and supply/purchasing contracts with upstream and downstream customers.
- Contract negotiation and price validation.
- Translation of technical information to downstream users.
- Identification of potential customers for Chemical sales and business development.
- Incorporation of data analytics approach for the identification of gaps in sales, improvement in business strategies, and expansion of new markets.
- Participation in new product development ideas using data gathered from end users.
- Manufacturing plant visits for compliance and auditing.
- Conduct customer follow-up visits and product information sessions.

Achievements:

- Successfully obtained procurement and supply contracts from clients (Small and Medium business enterprises) starting from 1.5 million USD.
- Increased sales revenue and established solid business network in various industries.
- Specialized in South East Asian and American markets.
- Adopted innovative data management tools to achieve clarity in pricing, calculation of profit & loss, value chain analyses, and great visualizations for comparisons.
- Successfully managed project funds without loss to the clients.

Academia

Research Fellow, May 2005

Department of Medicinal Chemistry, University of Kansas, Lawrence, KS, USA.

Research Fellow, Dec 2002

Department of Chemical Engineering, Northwestern University, Evanston, IL, USA.

Research Fellow, July 2001

Laboratory of Organic Chemistry, Swiss Federal Institute of Technology (ETH), Zurich

PhD Pharmaceutical Sciences with Synthetic Organic and Computational Chemistry specialization, 2000, GNDU, India.

PUBLICATIONS

1. Modular synthesis of cyclic peptidomimetics inspired by g-turns. **Senthil Kumar, R.**; Keeler, J.; Lee, H. L.; Reddy, D.S.; Lushington, G. and Aube, J., *Org Lett*, **2005**, 7(6), 1059.
2. β -Depsipeptides: Synthesis and Structural studies. Mahajan, Y.R.; **Senthil Kumar, R.**; Rueping, M. and Seebach, D. *Peptides*, **2002**, 798, Ettore Benedetti and Carlopedone (Eds), Edizioni zino, Napoli, Italy.
3. β -Depsipeptide - The effect of a missing and a weakened hydrogen bond on the stability of the β -peptidic 3_{14} -helix. Dieter Seebach, Yogesh R. Mahajan, **R. Senthil Kumar**, M. Rueping

and Bernhard Jaun, *Chem. Commun.*, **2002**, 1598.

4. Theoretical studies on the conformational preferences of 1,3-Diaza-1,3-butadienes. **Senthil Kumar, R.**; Marwaha, A.; Bharatam, P.V.; Mahajan, M. P. *J. Mol. Structure (Theo Chem)*. **2003**, 640, 1-12.

5. Diastereoselective synthesis of α -butadienyl- β -lactams and some stereochemical aspects of their Diels-Alder adducts. Arun K Sharma, **R. Senthil Kumar** and Mohinder P. Mahajan, *Heterocycles*, **2000**, 52(2), 603.

6. Competitive dienophilic behaviour of C=C and C=O bonds of ketenes in cycloaddition reaction with 1,3-diazabuta-1,3-dienes. P.V. Bharatam, **R. Senthil Kumar**, and Mohinder P. Mahajan, *Organic Letters*, **2000**, 2, 2725

7. Cyclodimerization of the 4-oxoderivative of Pummerer's ketone
G.W. Kirby, S. Jayakumar, **R. Senthil Kumar**, and Mohinder P. Mahajan, *Ind. Jnl. Chem. Sect B*. **1999**, 38, 1165

8. Reactions of 1, 3-diazabuta-1, 3-dienes with ketenes: How crucial are the steric factors /conformational preferences in influencing reaction pathways? Marwaha, A; Anand, A; **Senthil Kumar, R.**, Mahajan, M.P. *ARKIVOC*, **2002** (VII) 106.

Additional Coursework

COURSE	UNIVERSITY/SCHOOL	DATE OBTAINED
<i>Initiating and Planning Projects</i>	University of California, Irvine	Dec 24, 2015
<i>Budgeting and Scheduling Projects</i>	University of California, Irvine	Jan 8, 2016
<i>Managing Project Risks and Changes</i>	University of California, Irvine	Feb 9, 2016
Data Scientist's Toolbox	John Hopkins University	Nov 28, 2015
R Programming	John Hopkins University	Jan 2, 2016

Licenses and Certifications

FINRA Series 7 license – Nov 2016 – Nov 2018.
Global Regulatory Affairs Certificate – RAPS, Aug 31, 2013

Professional Memberships:

Member, American Society for Quality (ASQ), 2019 - Present

Member (id: 09209125), Regulatory Affairs Professional Society (RAPS)

Member, NCRAF (North Carolina Regulatory Affairs Forum), Raleigh-Durham NC

American Chemical Society (ACS, Past member)

Professional Member, APICS.