**Keerthi Appala**

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**OBJECTIVE**

Pursue a challenging career and be a part of a progressive institution that gives scope to enhance my knowledge, skills through extensive research and to reach the pinnacle in the field with sheer dedication and determination**.**

**Education**

Ph.D, Analytical Chemistry, University of Georgia ,Athens, GA .  **Present**

* First year graduate student
* Graduate teaching assistant for General Chem 1211L
* Eager to join analytical chemistry research group.

M.S, Chemistry, Western Kentucky University, Bowling Green, KY. **2017-2019**

* Advisor- Dr. Eric Conte.
* Research- “Quantification of Tylosin Antibiotics and Antibiotic Resistance Genes in

Cattle Waste.”

* “Degradation of Tetracycline Antibiotics in Livestock and Poultry Manure during

Anaerobic Digestion."

* Overall G.P.A of 4.0.
* Outstanding Graduate student (2019) by American Institute of Chemists. <http://www.theaic.org/award_winners/student_awards2019.html>

M.pharm, Pharmaceutical Analysis & Quality Assurance, Osmania University. **2013-2015**

* Advisor- Dr. R. Nageswara Rao.
* Research- “Quantification of Telmisartan in dried blood spots by validated LC-MS

method: Application to Pharmacokinetics”.

* “LC-MS/MS Determination of Antihypertension Drugs in Rat Plasma and Urine:

Applications to Pharmacokinetics **“(Co-author).**

* Outstanding student in the class with 85%.

B. Pharmacy, Sri Venkateshwara College of Pharmacy, Hyderabad, India **2009-2013.**

* Gold Medallist for being the topper for four years of the undergraduate program.
* Experience in handling Gel-electrophoresis, Microbial growing techniques and vaccines.

**Experience**

* Graduate Research Assistant, WKU.

Developed and Optimized an LC-MS/MS method for “Quantification of tylosin **2017-Present**

in the cattle waste (Feces)”.

* Graduate Teaching Assistant (WKU) – Taught and conducted, Fundamentals of organic chemistry , Quantitative Analysis and introduction to college chemistry labs .
* Project Trainee, Indian Institute of Chemical Technology, Hyderabad, India.

Developed and Validated an LC-MS method for “Quantification of Telmisartan **2014-2015**

in Dried Blood Spots: Application to Pharmacokinetics.”

**Academic Presentations and Achievements**

* Keerthi, A.; Kasumba, J.; Carlisle, A.; Getahun, E. A.; John, H. L.; Eric, C. “Quantification of Tylosin Antibiotics and Antibiotic-Resistant Genes in Cattle Waste.” 48th Annual WKU Student Research Conference, WKU, Kentucky, March 24, **2018**. (Poster)
* Keerthi, A.; Kasumba, J.; Carlisle, A.; Getahun, E. A.; John, H. L.; Eric, C. “Quantification of Tylosin Antibiotics and Antibiotic-Resistant Genes in Cattle Waste.” Kentucky Academy of Sciences 2018 Annual Meeting, WKU, Kentucky, NOV 2 & 3, **2018.** (Oral Presentation)
* Keerthi, A.; Kasumba, J.; Carlisle, A.; Getahun, E. A.; John, H. L.; Eric, C. “Development and Optimization of LC-MS/MS method for quantification of tylosin in the cattle waste (Feces).” Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (PITTCON), Philadelphia, Pennsylvania, March 17 - 21, **2019.**
* Keerthi, A.; Kasumba, J.; Carlisle, A.; Getahun, E. A.; John, H. L.; Eric, C. “Development and Optimization of LC-MS/MS method for quantification of tylosin in the cattle waste (Feces).” 49th Annual WKU Student Research Conference, WKU, Kentucky, March 23, **2019**.
* Kasumba, J.; Keerthi, A.; Getahun, E. A.; John, H. L.; Eric, C. “Degradation of Tetracycline Antibiotics in Livestock and Poultry Manure during Anaerobic Digestion." (In-progress)
* Keerthi, A.; Kasumba, J.; Carlisle, A.; Getahun, E. A.; John, H. L.; Eric, C. “Quantification of Tylosin Antibiotics and Antibiotic-Resistant Genes in Cattle Waste.” (In-progress).
* Melanie, C.; Kasumba, J**.;** Keerthi, A.; Getahun, E. A.; John, H. L.; Eric, C.; Rohan, R.P.; Brandon, C.; N.; Amanda, C.; Kathleen, R. J. “The Abundance of Tetracycline Resistance Genes in Waste Lagoons and Waste Treatment Digesters.” (In-progress)
* Nimmu, N. V.; Arnipalli, M. K. S.; Appu, K.; Khalid, S.; Ramisetti, N. R.  “LC-MS/MS Determination of Antihypertension Drugs in Rat Plasma and Urine: Applications to Pharmacokinetics.” *Chromatographia* **2018**, *81*(11), 1551–1557.

**Equipment HandlING:**

Laboratory scale tablet punching machine, Dissolution apparatus, Disintegration apparatus, Colorimeter, U.V.-Visible spectrometer, RP-H.P.L.C, IEC (Ion Exchange Chromatography), GPC (Gel Permeation Chromatography), Centrifuge, LC-Tandem Mass, GC-MS, Freeze-drier-LC-MS/MS.

**SKILLS**  :

* + IPQA for tablets and parenteral, Knowledge of production of tablets, capsules, parenteral.
  + Knowledge of GMP's, Sop’s (Standard operating procedures), GLP, Good Computer knowledge.
  + Biological sample handling, liquid samples handling.
  + Quality control procedures.