

JENNIFER L. BORJA

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Objective:

To use my managerial, scientific research experience to complete jobs swift and correct.

Education:

PhD, organic chemistry USF, Tampa FL 2017

Advisor: Dr Ed Turos

B.S. in Biomedical Science: Microbiology USF, Tampa 2011

B.A. Psychology: Behavior Modification USF, Tampa 2011

Professional Experience:

2008-Present

University of South Florida, Tampa FL

- Research Assistant/ Teaching Assistant
- Synthesized acid chlorides, cis beta-N-alkylthio lactams, distilled and purified numerous organic compounds
- Taught Organic and General Chemistry Labs, Chemistry Recitation sections, administer exams large scale and hand graded partial credit exams for organic chemistry.

Presentations:

- SERMACS Nashville, TN 2014
- Castle Conference Tampa, FL 2014
- Octoberfest Tampa, FL 2013

Awards:

SG Travel Award \$500 2014

Affiliations:

ACS, USF Department of Chemistry Council of Graduate Student * office: Social Affairs, USF Graduate Student Ambassador.

Managerial:

- Excellent managerial skills in grooming salon, pet-sitting, dog boarding facility and in animal hospitals required me to screen potential clients and their pets. Set up an initial meet and greet to examine the condition and behavior of the pet(s), filed and updated all waivers, paperwork as needed, such as liability, emergency information, rule sheets, shot records medical problems, payments and scheduling, handled any injuries that would happen in the doggy day care, pet salon, personal residence of the client, or boarding facility, washed and dried pets, removed mats, ticks, and fleas, special treatment of elderly or disabled pets, ground pet nails with a mechanical dremel, cleaned the ears, brushed the teeth, cleansed the anal glands externally. For pet sitting clients, played with the pets and left detailed notes on their behavior, cleaned litter boxes, in addition to basic care of the pets.
- Over 5 years veterinary technician experience cleaning, hand feeding, washing, cleansing of wounds for boarding animal and holding for technicians/doctors. Duties: answering phones, check in clients by weighing, checking on outstanding balances, and forms of payment, setting future appointment, finishing medical notes on an interlinked animal hospital database daily, check-up calls, making copies of all necessary documents, calling last known doctors for verification, x-ray production and developing, verifying insurance, fax, checking in patients, disinfecting and sterilizing rooms and medical utensils, customer service related to services, pricing, and explaining dense medical material, making treatment plans, mixing medicines, making labels, assist spay/neuter/dentals, administer vaccines via intranasal, subcutaneous, intramuscularly except rabies, EKG, urinary analysis, CBC, blood chemistry, ear smear, clipping nails, skin scrapes, eye stains, internally cleansed anal glands and fecal exams. treatment of *Psittacosis* outbreaks, answer questions about the animals to zoo visitors, allowing visitors to pet specific animals, and transporting the animals to the show location, new facilities, or the airport.

Microbiology

- Laboratory and medical/clinical experience in the identification of bacterial, viral, and fungal species via blood sample, dermal abrasions, swabbing of mucus membranes, ear smears, and clean catch urine samples. In addition, pure culture isolation and aseptic transfer methods, serial dilutions,
- Highly experienced with monocular or binocular compound microscopes, wet mounts, oil emersion, stained slides.
- Trained in sterile preparation of culture media and use including but not limited to liquid, solid, and semi-solid medium made from broth and agar, creating slants and plates of enriched media and complex or selective media: TSA, TSB, MacConkey, Eosin

Methylene Blue Levine, Salmonella-Shigella, TSI, Citrate, chocolate agar, differential media: blood agar, MSA, and pH indicator tests.

- Complete understanding of differential and simple staining for *Mycobacteria*, *Nocardia*, *Cryptosporidium* (Acid Fast, Ziehl-Neelsen), numerous *Staphylococcus* species and other gram positive cocci, *Enterobacteriaceae* and other gram negative rods, *Escherichia coli* and other gram negative cocci, fungal, flagella, *Bacillus*, *Clostridium* endospore (Malachite Green) and *Klebsiella pneumoniae*, *Bacillus anthracis* capsular stains (Anthony's Method).
- Bacterial identification based on testing for hydrolytic enzymes: amylase, caseinase, gelatinase, and lipases.
- Mastery of antimicrobial susceptibility tests and control of growth tests by Kirby-Bauer disk diffusion method and calculating zones of inhibition to aid in the diagnosis plan.

Organic Chemistry

- Over 1 year experience in synthetic organic chemistry antibiotic research, bench work with N- thiolated beta-lactams that have a 5 step work up procedure.
- Set up and use of different size columns, saturation, infusing of silica powder, separations, large scale distillations, and scale up reactions.
- Experience in performing and interpreting: melting points, thin layer chromatography, LC-MS (mass spectroscopy), HPLC, carbon and proton NMR, trained new team members to use the 250 NMR machine.
- Expertise in conducting as many as 5 different experiments simultaneously, and correctly.
- Knowledge of cGMP, hazardous material training, proper disposal of biohazardous, corrosive, toxic, and explosive chemical or compounds.
- Ability to perform calculations and verification of percent yield, optimizing reaction products.
- Experience in technical writing and chemical drawings with specialized software.