Resume/ CV

Your Chance to Make Them Want You

What Is the Purpose

- Advertise your strength
- Get them to want to ask you questions
- Provide honest information that related directly to their needs
- GET YOURSELF AN INTERVIEW!!!!

RESUME vs CV

- Include same in both
- Level of Detail
- Explanation of Research (CV)
- Resume keywords vs CV
- Reflection of job description
- Organization is KEY

EXAMPLES

- Example of a CV format
  - http://web.mit.edu/career/www/workshops/resumes/Res_After.pdf
- Example of Resume Format
  - http://te.educ.msu.edu/ctep/academics/forms/samplevita.pdf

What to Include in a Resume

- Heading
- Summary or Objective
- Education
- Employment (research and responsibilities)
- Accomplishments
- Publications
- Memberships and Associations
- Skills/Techniques

Resume Success is Subjective

Everyone wants something different

Keep your target audience in mind

Use Action Words

Use Buzzwords- based on job description

Only Work related information

Check for spelling and format errors

Don’t Obsess! There is no such thing as perfect

Honesty

The Basics for Resumes

- Keep under 2 pages for resumes only
- Geared to the position you are interested in pursuing
- Use good paper
- Check Format when copying to online application
- For Resumes – create a **“super document”**
  - **http://www.udel.edu/CSC/pdfs/PhDTechResume.pdf**

The Basics For CV's

- Thesis Title
- Research Interest
- No objective statement unless changing field
- Awards/Honors
- Publications
  - Status

Danger Areas Of Resumes

- Do not apply repeatedly
- Content should be directed at position
- Apply to appropriate positions
- Good Formatting
- Know your resume
- Be Concise!!!

Quick Hints on Cover Letters

- Customize
- Intro Paragraph – position title/ posting
  - Include referral
- What you can provide
  - Your understanding of the position
- What you want
- How to contact you
  - Final expression of interest
  - Ask for an interview
- Have others review

[redacted], PH.D.

Street address
City, state, zip code, USA

Telephone: (978) 444 1111
e-mail: smart@yahoo.com

SUMMARY STATEMENT:

A synthetic chemist for a drug discovery company with over six years of experience in conducting lead optimization, process chemistry development, and combinatorial chemistry. Results include two successful lead optimization projects. A project team leader for a chemistry development group of four since 2002.

WORK EXPERIENCE:

ArQule, Inc., Woburn, MA **1997 - 2004**
Principle Investigator (January 2002 to February 2004)

- Led a chemistry development team of four for a drug discovery program collaborating with Pfizer.
- Developed multi-step synthetic protocols for the production of libraries of drug-like compounds (500 to 5000 in size).
- Group completed 2003 objectives within 10 months allowing ArQule to obtain milestone payment from the collaborator.
- Created and led a Library Design group, assessing synthetic feasibility and drug-like characteristics of chemistry libraries.

Staff Investigator (1997 to 2001)

- **Lead Optimization**: Conducted medicinal chemistry and combinatorial chemistry to successfully optimize the activity of potential drugs. Assessed biological potency, selectivity, and high-throughput early ADMET data.
- Conducted successful lead optimization within one year that resulted in the selection of a group of compounds that went on to an advanced stage of *in vivo* studies in a Wyeth collaboration.
- Supported an effective multi-iterative lead optimization program that led to the development of three potent herbicides that where advanced to agriculture field studies in a Monsanto collaboration.
- Synthesized chemistry libraries using liquid and solid phase methods.
- Conducted multi-step core synthesis and scale-up synthesis of active compounds.
- Designed and synthesized target-biased screening libraries of small drug-like compounds for biological screening.
- Promoted to Principle Investigator in 2002.

University of Waterloo, Waterloo, Canada **1997**
Post Doctoral Fellow (September – January, 1997)
Department of Chemistry, Synthesized potential inhibitors for Class II aldolase, a target for antifungal agents.

- Used molecular modeling, including COMFA analysis, to design inhibitors.

University of Waterloo, Waterloo, Canada **1989 – 1995**
Research Assistant (Ph.D. thesis research): Dept. of Chemistry (May1989 - Aug 1995)

- Synthesized and biochemically analyzed active compounds targeting carboxypeptidase A, angiotensin converting enzyme, beta-lactamase I and II, and HIV reverse transcriptase.
- Synthesized compounds included thiol and thioester peptide analogues, heterocyclic hydrazones, as well as other biologically active compounds.
- Used molecular modeling to design some inhibitors.

University of Waterloo, Waterloo, Ontario **1989- 1993**
System Manager: Dept. of Chemistry,

- Managed a Digital Micro-VAX computer, used for molecular modeling studies.

EDUCATION:

University of Waterloo, Waterloo, Canada
Ph.D. in Organic Chemistry, 1996

- Thesis titled "The Inhibition of Carboxypeptidase A and Angiotensing Converting Enzyme by Target Enzyme-Activated Inhibitors and N-Acylhydrazones".
- Advisor was Professor Gary I. Dmitrienko.

University of Waterloo, Waterloo, Canada
B.Sc. Honors in Biochemistry, 1989

TECHNICAL SKILLS:

- **NMR and QC**: NMR experience with Bruker AC-200, AM-250 and AMX-500 and Varian Mercury-300 and Gemini-300. Extensive experience with LC-MS, ELSD and HPLC analysis.
- **Additional Chemistry Skills** include solution and solid-phase parallel synthesis, microwave chemistry, and various chromatography purification methods.
- **Combinatorial chemistry equipment**: Tecan and Gilson liquid handlers, Savant and GeneVac vapor condensers, Bohdan Automated vial handlers, and Argonaut Quest 210 solid-phase synthesizer.
- **Computer Modeling**: Experienced with the molecular modeling package Sybyl (Tripos) and Insight and Discover (Biosym) on the SGL, for studying enzyme-inhibitor interactions and the rational design of enzyme inhibitors.
- **Chemistry software**: Beilstein CrossFire™, CAS SciFinder, and UMETRICS MODDE 5.0 (Experimental Design).

AFFILIATIONS:

Member of the American Chemical Society.

PUBLICATIONS, PATENTS AND PRESENTATIONS:

C. M. [redacted], G. R. MacKinnon and G. I. Dmitrienko, "Inhibition of Carboxypeptidase A by (S)-2-Mercapto-3-phenylproponoic Acid", *J. Chem. Soc., Chem. Comm.* **1997**, 2309-2310.

C. M. [redacted], M. A. Parniak and G. I. Dmitrienko, "The Inhibition of Carboxypeptidase A by N-(*t*-Butylbenzoyl)-2-hydroxy-1-naphthaldehyde Hydrazone", *Bioorg. Med. Chem. Lett*. **1997**, *7*, 1557-1562.

C. M. [redacted], C. Baldino, "Combinatorial Libraries of Isatin Hydrazides and Methods of Making and Using the Same", US Application No. 09/440,598.

C. M. [redacted] and G. I. Dmitrienko, "Inhibition of Carboxypeptidase A by N-(*t*-Butylbenzoyl)-2-hydroxy-1-naphthaldehyde Hydrazone". *80th Canadian Society for Chemistry Conference and Exhibition*, Windsor, Ontario, Canada, June 1997.

C. M. [redacted] and G. I. Dmitrienko, "Thioesters as Mechanism-Based Inhibitors of Carboxypeptidase A". Presented at the *78th Canadian Society for Chemistry Conference and Exhibition*, Guelph, Ontario, Canada, May 1995.

C. M. [redacted], G. R. MacKinnon and G. I. Dmitrienko, "Interaction of Carboxypeptidase A with Thioesters: Mechanism-Based Inhibition". *74th Canadian Society for Chemistry Conference and Exhibition*, Hamilton, Ontario, Canada, June 1991.

MANUSCRIPTS IN PREPARATION:

C. [redacted], L. Shen, "Pd-Al_2O_3-Mediated Aryl-nitro Reduction and N-Benzyl Cleavage Under Mild Conditions". To be submitted for publication in early 2004.

C. [redacted], G. R. MacKinnon, S. Seidel and G. I. Dmitrienko, "Steady State and Pre-steady State Kinetic Analysis of the Carboxypeptidase A Catalyzed Hydrolysis of S-Benzoylthiophenyllactate and of O-Benzoylthiophenyllactate: Possible Insights into the Order of Product Release". Intended submission to *Biochemistry*.

C. [redacted] and G. I. Dmitrienko, "Thioesters as Specific Enzyme Activated Inhibitors for Zinc-dependent Proteases: Potent Inhibitors for Carboxypeptidase A and Angiotensin Converting Enzyme".

References available upon request.

[redacted], **Ph.D.** (978) 555 9999 (C)
Street address (978) 555 8888 (H)
City, State zip code email: address@yahoo.com

Goal

To use biology expertise and assay development skills to contribute to the development and commercialization of therapeutic products.

Summary

A Ph.D. level scientist with over 4-year industry experience in drug discovery/development. Specific experience in high throughput screening and assay development includes: ELISA and TR-FRET for protein kinase assay; Ligand displacement assay using SPA and FP technology; Fluorescent-based assay for voltage- and ligand-gated ion channels; Mammalian tissue culture; Fluorescence microscopy; *In vitro* cell proliferation/migration assays.

Professional Experience

ArQule, Inc., Woburn, Massachusetts

Staff Investigator: **Department of Biology**, February 2001 to February 2004

- Biology team leader for IKK2 Kinase project.
- Successfully developed protein kinase assay using different formats including FRET and ELISA.
- Designed multiple assay strategies and criteria for lead generation.
- Biology team leader for the Ion Channel project.
- Successfully developed IMR32 Ca assay to test calcium channel (N-type) blockers.
- Closely worked with chemists and modeling group for lead generation and lead optimization.
- Managed *in vivo* efficacy studies at CRO.
- Screened compounds using SPA method for μ-opiod receptor inhibitors for compound selectivity.
- Developed the automated tissue culture system for the high throughput screening group.

Pfizer Global Research and Development, Ann Arbor, Michigan

Post-Doctoral Research Fellow: Department of Pharmacokinetics, Dynamics, and Metabolism, February 2000 to February 2001

- Investigated the MDCK monolayers as a surrogate for *in vitro* high throughput drug screening model.
- Designed and performed the experiments to optimize the *in vitro* MDCK model to predict the *in vivo* absorption.
- Investigated the mechanism of transport of newly synthesized compounds transport through the epithelial cell monolayer.

[redacted], Ph.D.

Harvard Medical School: Massachusetts General Hospital

Boston, Massachusetts

Post-doctoral Research Fellow: Edwin L. Steele Laboratory for Tumor Biology, August 1997 to January 2000

- Developed an *in vitro* system to investigate circulating cell rolling, adhesion, and deformation under various flow conditions.
- Designed and performed the experiments to study the effects of erythrocytes on circulating cell rolling and arresting on endothelial cell monolayer.
- Investigated the differential effects of various growth factors, hydraulic pressure, oncotic pressure on endothelial cell monolayer permeability and cell function such as wound healing, cell migration, and proliferation.
- Conducted cell migration assay: time-lapse video recording, Boyden-chamber assay, wound-healing assay, fluorescent microscopy. Duties also included laboratory. management, implementing GLP procedures, and instrumentation maintenance and optimization.

The University of Toledo, Toledo, Ohio

Research Assistant, Department of Bioengineering, September 1995 to August 1997

- Designed and optimized photodynamic therapy (PDT) procedure based on mathematical model prediction that was successful in *in vivo* testing (animal experiments completed in collaboration with the Department of Pathology, Medical College of Ohio and PDT, Inc., Santa Barbara, CA). A new parameter group that can be successfully used for predicting and comparing the clinical efficiency of PDT.
- Developed a method for in vitro PDT drug toxicological assay. Studied the *in vitro* cellular drug uptake kinetics, subcellular drug distribution, and PDT induced tumor cell necrosis and apoptosis.
- Managemed of Biomedical Engineering laboratory. Responsibilities also included instrumentation set-up and maintenance, supervising and training undergraduate students.
- Provided assistance to instructors for courses: “Chemical Engineering Thermodynamic” and “Reactor Engineering and Design”. Duties also included providing problem solving assistance to students in class.

Tsinghua University, Beijing, China

Research Assistant, Department of Chemical Engineering, September 1990 to September 1993

- Developed and optimized a multiple step process of extraction/purification of amino acid valine from a fermentation broth. Increased valine recovery significantly by optimizing the extractant composition. The optimized conditions were implemented at the Yintan Biochemical Product Company.
- Supervised undergraduate students for Senior Honors Thesis. Responsibilities included providing assistance in proposal preparation, experiment design, trouble-shooting, and problem solving.

[redacted], Ph.D.

Education

Doctor of Philosophy, Department of Bioengineering, The University of Toledo, Toledo, Ohio, August 1997
Dissertation "Photodynamic Therapy: Mathematical Modeling and Experimental Studies"
Ph.D. Advisor: Dr. Patricia Relue

Master of Science, Department of Chemical Engineering, Tsinghua University, Beijing, China, August 1993

Bachelor of Science, Department of Chemical Engineering, Tsinghua University, Beijing, China, August 1988

Continuing Education and Training

Clinical Pharmacokinetics for Pharmaceutical Scientist, UCSF, 2002

FACTS training, Tecan, 2001

Clinical Pharmacokinetics and Pharmacodynamics, short course, Pfizer, 2000

Tumor Biology and Angiogenesis, Short course, Harvard Medical School, 1998

Publications

- The Design, Preparation and SAR of Novel Small Molecule Sodium (Na+) channel Blockers Mark A. Ashwell, Jean-Marc Lapierre, Alan Kaplan, [redacted], etc (In Preparation)

- [redacted], J., T, Nguyen, B, H. Stewart, O. H. Chan. Open up the tight junction in MDCK monolayer to enhance the paracellular permeability, In preparation.

- [redacted], J., R.D. Dull, Y.S. Chang, J. Tarbell, R.K. Jain, and L.L. Munn. Kinetics of PlGF/VEGF synergy in endothelial hydraulic conductivity and proliferation, Microvascular Research, 2001, 61, 203-210

- [redacted], J., R. J. Melder, L.L. Munn, and R.K. Jain. A lateral view flow system for studies of cell adhesion and deformation under flow conditions. BioTechniques, 2001, 30, 388-394

- Chang, Y.S., L.L. Munn, M.V. Hillsley, R.O. Dull, J. [redacted], S. Lakshminarayanan, T.W. Gardner, R.K. Jain, J.M. Tarbell. Effect of vascular endothelial growth factor on cultured endothelial cell monolayer transport properties. Microvascular Research, 2000, 59(2), 265-277

- Melder, R.J., J. [redacted], L.L. Munn, and R.K. Jain. Erythrocyte augmentation of lymphocyte interactions with the vasculature. Microvascular Research, 2000, 59(2), 316-322

- [redacted], J., P.A. Mahama-Relue, R.L. Fournier, and J.A. Hampton. Predictions of mathematical models of tissue oxygenation and generation of singlet oxygen during photodynamic therapy. Radiation Research, 148(4), 386-94, 1997 Oct.

[redacted], Ph.D.

Presentations

- [redacted] Zhu, S., Kneeland, T., Vensel, D. and Jones, S. ELISA for IkB kinase Assay. (In preparation)
- [redacted]., Jones, S. N-type calcium channel flux assay using Victor V (In preparation)
- [redacted] B. H. Stewart, O.H. Chan. Comparison of MDCK verses Caco-2 as in vitro model for permeability screening. AAPS, October 2001, Denver, CO.
- [redacted] E.L.Reyner, B.H. Stewart, O. H. Chan, The MDCK monolayer as an in vitro model for membrane permeability screening, AAPS, October 2000, Indianapolis, IN.
- [redacted] R.J. Melder, L.L. Munn, and R.K. Jain. Development of an agarose-cast vessel system for studying cell adhesion and deformation under flow conditions. Annals of Biomedical Engineering. Atlanta, GA, October 1999
- [redacted] L.L. Munn, and R.K. Jain. The effects of VEGF on human umbilical vein endothelial cell migration and permeability. Experimental Biology '99, Washington DC, April 1999.
- [redacted] P.A. Mahama, R.L. Fournier, J.A. Hampton, and C.A. Bennet. Optimization of singlet oxygen generation during PDT treatment of tumors. 1996 Annual AICHE Meeting, Chicago, IL, November 1996.
- [redacted] P.A. Mahama, R.L. Fournier, and J.A. Hampton. An investigation of tumor oxygenation and cell killing during photodynamic therapy. 1995 Annual AICHE Meeting, Miami Beach, FL, November 1995.

Awards

- Guanghua Outstanding Student fellowship for undergraduate students
- Guanghua Outstanding Student Fellowship for graduate students

Professional Memberships

- American Association of Pharmaceutical Scientist
- American Chemical Society
- American Association of Cancer Research
- Omega Chi Epsilon (Honor Society of Chemical Engineering)
- American Institute of Chemical Engineers
- Biomedical engineering Society
- Post-doctoral fellow, The Whitaker Fellowship Program for Bioengineering in Oncology

Immigration Status

Permanent Resident Alien. (Green Card)

Nancy Elisa

Street address
City, State Zip Code

Phone: (978) 222-3333 **E-Mail: Nelisa@AOL.com**

SUMMARY

A Biochemist experienced in Drug Discovery, Cell Biology, Permeability, Robotics, Assay Development, Product Development, Process Development, Protein Purification and Immunology.

Demonstrated strengths include:

ELISA	ADME	Assay Development	QC/QA
Immunoassays	ELISA	Solubility	
Tecan Robotics	Receptor Binding	Permeability Assays: In-Depth, Unidirectional, Bi-directional,	Caco-2 & MDCK cells
Project Management	Training & Development	GMP,GLP	ISO 9001

Trained, mentored and motivated Team resulting in fewer man/months to RFS.
Effectively trouble shooted "Assay Innovative Process" deliverables.
Shortest turnaround among all ADME assays by effective co-operation with other departments.
Supported, evaluated and interpreted results for Team members.

PROFESSIONAL EXPERIENCE:

Temporary Contract Assignments 2003-
Developing GC-MS skills, LC-MS
Teaching AP and Honors Chemistry Wilmington High School

ArQule, Woburn, MA Research Scientist 2000-2002
Cell culture (Caco-2, MDCK, 3T3) Permeability and solubility assays- shortest turnaround among all ADME assays by effective co-operation with Bioanalytical Robotic operation: Tecan (automated cell culture and permeability assays), Biomek 2000

Temporary Contract Assignments 1999-2000
Curis, Cambridge, MA (Ontogeny)
Research Scientist
Performed protein purification

Millipore, Danvers, MA
Research Scientist
Validation of products and applications for HTS and ADME/Tox.
Performed cell based fluorescent assays using calcein and PMA.
Evaluated cell monolayers for drug transport using Lucifer Yellow, TEER.
Instruments: Wallac Victor 2 and Molecular Devices Spectramax Plus, Softmax
Cell Lines: Caco-2, MDCK, HB124, K-562

AutoImmune, Lexington, MA 1998 – 1999
QC/QA Laboratory Research Scientist
Developed in-process and raw material enzymatic assays for cGMP Process
Developed assays to verify specific purification processes (ELISA, Proteoglycan, etc)

PROFESSIONAL EXPERIENCE CONTINUED:

Chiron Diagnostics Corp., East Walpole, MA 1992 – 1998
Associate Research Scientist
Explored and developed applications for the ACS180, a clinical random access chemiluminescent instrument. Successfully developed ACS Myoglobin Assay; RFS

Technology Transferred to Manufacturing March,1998
Trained, mentored & motivated Myoglobin Team resulting in fewer man/months to RFS
Effectively trouble shooted "Assay Innovative Process" deliverables
Systematically trouble shooted Assay development problems

Temporary Contract Assignments 1990 - 1992
Contract assignments for numerous chemical/biological firms.

Sepracor, Inc., Marlborough, MA Immunochemist 1989 - 1990
Explored and developed applications that demonstrated and extended the capabilities of the affinity membrane purification products (protein immobilization and purification, immunoaffinity chromatography, immunoassays).

Seragen, Inc., Hopkinton, MA 1987 - 1989
Scientist IV -Leader of Assay Development
Worked on an enhanced ELISA Assay to measure nanogram amounts of Chimera drug in human and monkey sera.

Scientist IV -Manager of Technical Support
Directed the development and implementation of a quality affinity column for use in purification of product.
Directed the development of ELISA assays to test for contaminates, product concentration and product integrity; directed monoclonal antibody purification for company use; directed polyclonal antibody production and purification. Performed the Pharmacology and toxicology of a new drug on rats, mice, and guinea pigs.

EDUCATION:

University of Cincinnati, Cincinnati, OH M.S. Biochemistry

Edgecliff College, Cincinnati, OH A.B. Chemistry

Northeastern University, Boston, MA Continuing Education:
Autonomic Drugs, Antinfectives, CNS Depressants,
Clinical Chemistry, Radioisotopes in Biological Systems

American Chemical Society short course: Pharmacokinetics and Dynamics

PUBLICATIONS:

1. H.Yu, B. Janosky, N.[redacted], V.Doan, K.Laws,K. Bresciano, M.Rooney, O.H.Chan. Validation of 96-well plates in the Caco-2 permeability screening assay. Poster presented at the AAPS Annual Meeting 2002, Toronto, Ontario, Canada.

2. N.[redacted], H.Yu, B. Janosky, V.Doan, D.Wei, K.Laws, M.Rooney, L.Hardy, O.H.Chan. Examination of the MDCK-II cell as an intestinal model for permeability screening. Poster presented at the AAPS Annual Meeting 2002, Toronto, Ontario, Canada.

3. H.Yu, N.[redacted], M. Rooney, J.Manchester, B. Janosky, J.Yuan, L.Delva,V.Doan, D.Wei, R.Cole, R.Wobbe, L.Hardy. Development of an automated Caco-2 assay for screening combinatorial chemical libraries. Poster presented at the AAPS Annual Meeting 2001, Denver, CO.

4. Oh, S.K., Yang, G., [redacted], N., Tasaico, K., M. Orswele, Bluestein, B. Barlow,E Development of immunoassay for human cardiac Troponin-I using a combination of MoAbs to create a functional polyclonal Ab. Manuscript submitted 1998

5. [redacted], N., Hanratty, S., Harriman, T., Oh, S.K., Bluestein, B.,: Product Development Chiron Diagnostics, E. Walpole, MA, USA Development of a myoglobin assay for diagnosis of acute myocardial infarction on an automated chemiluminescent immunoassay system abstract AACC June, 1997

PROFESSIONAL AFFILIATIONS:

American Chemical Society

HOBBIES:

Biking, Swimming, Northern Canada Wilderness Canoe Tripping

Name
Street
City, State zipcode
Phone number – email address

Date

Name
Title, department
Company
Address
City, state, zip

Dear Dr. _____.

I am writing to explore the possibility of employment as a Research Scientist with *name of company*. With an extensive background in medical chemistry research and broad training in the areas of organic and combinatorial chemistry and polymer science, I feel that I offer a strong package for your Research and Development team.

Currently, I am a senior scientist at *name of employer*, working in the area of traditional medicinal research. My post-doctoral research involved the synthesis and evaluation of small molecule libraries based upon vancomycin antibiotics. Employing on-bead screening assays and a MALDI MS decoding method, I was able to successfully identify small molecular receptors which can bind the peptide ligands. Additionally, I worked extensively with computer assisted design and synthesis of oxidation catalysts which mimic enzymes. I have a particular interest in polymer science and have studied polymer synthesis and polymer physics extensively while attending Beijing University.

I believe that my comprehensive experience in combinatorial, organic and polymer chemistry offers a strong set of qualifications that could be highly useful to you're your organization. I am highly responsible and creative professional who enjoys working in collaboration with others as well as independently to achieve maximum results.

Thank you for your time and consideration. I look forward to discussing my qualifications with you.

Sincerely,

name

Name
Street
City, State zipcode
Phone number – email address

Date

PPD Discovery
Yvonne Young
1505 O'Brien Dr., Suite B
Menlo Park, CA 94025-1435

Dear Ms. Young:

I am writing in response to your ad in the March 29, 2001 issue of Science for a Scientist in your Molecular Oncology Program. I received my Ph.D. from the University of _____. I am finishing a post-doctoral fellowship in the laboratory of _____... Both my pre-doctoral and post-doctoral projects have focused on various aspects of DNA replication, including cell cycle control, in malignant cells.

I have extensive experience in protein purification, enzyme analyses, the identification of biomarkers and therapeutic targets using two dimensional polyacrylamide gel electrophoresis, as well as other biochemical and molecular techniques. These qualities, I believe, would make me an excellent fit for the job you have described in your ad.

Please review my attached resume for a more complete description of my qualifications. I am now living in Charlotte, NC but will be relocating to San Jose, CA in June due to my husband's reassignment with _____. I would very much like to discuss my qualifications with you further in a face-to face meeting, at your convenience.

I look forward to hearing from you.

Sincerely,

Name

Example of Vita/Resume

Ph.D. Program in Curriculum, Teaching, and Educational Policy

Your Name
Home Address
City, State, Zip
Tele: (000) 000-0000
Fax: (000) 000-0000
E-Mail Address:

Name of School/Place of Employment
Work Address
City, State, Zip
(000) 000-0000

(For international students: be sure to provide country and city codes for phone and fax numbers.)

Desired Emphasis Area (list one of the following)

1. Curriculum, Teaching, and Learning (general curriculum, history/social science education, literacy education, mathematics education, or science education); or
2. Educational Policy and Social Analysis; or
3. Teacher Education and Teacher Learning.

Racial or Ethnic Group Identification (optional; does not apply to international applicants)

1. White/Caucasian
2. Black/African-American
3. Chicano/Mexican American/Latino
4. Spanish American/Hispanic
5. American Indian
6. Asian/Pacific Islander
7. Other _____

Legal State of Residence _____

Education

Bachelor's degree in _____ (major), and _____ (minor), from_____(what institution), in _____ (what year).

Master's degree in _____ (major), from _____ (what institution), in _____ (what year).

Teaching (or other professional) Certification (levels, special areas):

Professional Experience

Year-Present
Your title and place of employment
Brief description of duties/activities

Year-Year
Your title and place of employment
Brief description of duties/activities

Other Work-Related Experiences (other kinds of jobs you have held, including volunteer/community services)

Year-Year	Your title and place of employment Brief description of duties/activities

Presentations, Workshops, In-services (you have conducted or in which you have participated, locally, statewide, or nationally)

Year/Duration	Title, description, or focus

School-Community Collaborative Activities (with a university, college, business/industry, parents, or community service organizations)

Year/Duration	Title, brief description, the nature of your involvement and activities

In-School Collaborative Activities (with colleagues, administration, personnel support)

Year/Duration	Brief description, the nature of your involvement and activities

Grants, Awards, or Honors You Have Received

Year	Title, brief description of the nature of the award

Publications or Development of Publicly Used Curricular or Instructional Materials

Year	Title, publisher, or description of materials

Professional Memberships or Organizations to Which You Belong

Ima Student

Rm. 51-84, M.I.T., 37 Ames St. • Cambridge, MA 02139 • Phone: 617-253-5000 • Email: imastudent@mit.edu

---

Education

MASSACHUSSETTS INSTITUTE OF TECHNOLOGY **Cambridge, MA**

Candidate for Ph.D. degree in Material Science & Engineering, June 2001 Used stochastic simulation techniques to gain new insights into polymer structure. Established collaboration with experimental group in the Mech. Eng. Dept. Pursuing unique integrated approach to develop new molecular models better suited to designing optimal industrial processes. *GPA: 4.9/5.0*

Minor: **Business Administration at the Sloan School of Management, MIT**

Business Courses: Management of Innovation and Technology, International Management, Entrepreneurship, Microeconomics, Macroeconomics, Management and Policy in the International Economy, Marketing, Finance Theory, Options and Derivatives, Investment Banking, Operations Research, **all with grade A.**

Master of Science in Chemical Engineering Practice, January 1998.

TRINITY COLLEGE, CAMBRIDGE UNIVERSITY **United Kingdom**

Master of Engineering, June 1995 *Class Rank: 2*

Bachelor of Arts with Honors in Natural Science and Chemical Engineering, June 1994 *Class Rank: 1*

Experience

INDUSTRY INTERNSHIPS

MERCK PHARMACEUTICALS (Summer 1997) **West Point, PA**

Team Leader: Found systematic method to raise glass transition temperature of vaccines. This allowed a higher storage temperature for the vaccines. Generated $5million annual saving in refrigeration costs.

DOW CHEMICALS (Summer 1996) **Plaquemine, LO**

Wrote software for simulating complex distillation processes that was adopted throughout Dow Chemicals.

DOW-CORNING (September-November 1996) **Midland, MI**

Team Leader: Removed a bottleneck to allowing doubling of a plant's capacity. $10million capital saving.

UNITED KINGDOM ATOMIC ENERGY AUTHORITY (Summers, 1991-1994) **United Kingdom**

Worked for fluid mechanics groups on technical consulting projects for the petroleum industry. Frequently delivered presentations to clients. *Achievements:* Incorporated new algorithms into pipeline simulation modules and achieved tenfold increase in speed. Developed strategies to reduce pipeline erosion. Improved reliability of flowrate measurement devices in oil pipelines to allow clients to better monitor throughputs.

Leadership

MIT PRESIDENT, STUDENT LEADERSHIP COUNCIL OF MATERIAL SCIENTISTS (1999 – present)

Leader in this group of 200 students that promotes collaboration between five major research universities. Organized videoconferences to allow students to share research ideas. Planning summer retreat to further student collaboration. Investigating ways to promote science and technology in secondary schools and the community.

STUDENT REPRESENTATIVE, MIT MATERIAL SCIENCE & ENGINEERING DEPT. STUDENT AFFAIRS COMMITTEE (1998 – present)

Leading student / faculty discussion on ways to enhance student / advisor interaction.

TEACHING ASSISTANT, MIT MATERIAL SCIENCE & ENGINEERING DEPT. (Fall semester 1998)

Organized tutorials to clarify course material. Wrote instruction manual to help students use math software. Class scored 7% higher in final than any of the professor's former classes.

U.K. COORDINATOR, EUROPEAN CLUB CAREER FAIR (1997)

Awards, Honors

Winner of National Science Foundation Poster Competition (1999); **Sigma Xi Engineering Research Honors Society** (1996); **Harvey Stern Fellowship,** MIT (1995); **Fox Prize** for Outstanding Performance in Chemical Engineering, Cambridge University (1995); **Verhaydn de Lancy Prize** for Outstanding Contribution to Trinity College (1994); **Mobil Prize** for Best Performance in Chemical Engineering, Cambridge University (1994); **Senior Scholarship** for Outstanding Academic Performance, Trinity College, Cambridge (1993); **Student Scholarship,** United Kingdom Atomic Energy Authority (1991-1995)

Activities

Dancing (MIT Salsa Club), Classical Guitar, MIT Debating Club, MIT European Club Soccer Team

PhD Sample Resume

Name
Address
Phone
Email

RESEARCH INTERESTS

- Distribute Systems Control
- Robust Decentralization Control
- Mechantronics and Artificial Intelligence
- Optimization and Robust Control
- Robotics and Control
- Precision Engineering
- Intelligent Control
- Metrology
- Automation
- Applied Nonlinear Control
- System Identification
- Vibration Analysis and Control

TEACHING INTERESTS

- Kinematics and Dynamics
- Feedback Control
- Mechatronics
- Nonlinear Control
- Introduction to Robotics
- Vibration Analysis and Control
- Optimization and System Identification
- Robust Control

EDUCATION

Ph.D. in Mechanical Engineering, University of Delaware, 2003
Dissertation Title: Modeling and Control of a Flexible Cable System
Overall GPA: 3.43/4.0. Major GPA: 3.52

M.S. in Precision Instrument Engineering, Tianjin University, 2000
Thesis Title: A Novel Design of Highway Retroreflector Measurement Devise.
Overall GPA: 82.35/100. Major GPA: 87.1/100

B.S. in Precision Instrument Engineering, Tianjin University, 1994
Thesis Title: Research on the Microcomputer Controlled Pressure Measuring System.

B.A. minor in Humanities and Social Sciences, Tianjin University, 1994
Thesis Title: The Position of Futurology in the History of Western Philosophy.

RESEARCH EXPERIENCE

Research Assistant, University of Delaware, 2002-2003

- Developed the model for compliant cable systems with varying cable lengths.
- Designed a Lyapunov controller to suppress the vibration of cables. The controller guaranteed the stability of the system and assured the goal of the slider.
- Designed a robust controller on the experimentally identified model using H control and LQG/miniMax methodology.
- Conducted experiments on flexible six order-of-freedom cable suspended robots using dSPACE 1103 systems with real-time workshop, where the differential flatness theory was applied to calculate the positive tension inputs.
- Designed an EKG measurement device for laboratory instruments class.

Intern Researcher, Australia Defense Force Academy, 2002

- Designed and successfully implemented robust controller for a flexible cable transporter system, and dramatically reduced the residual vibration.
- Derived the model of flexible cable systems using subspace identification t theory.

Research Assistant, Tianjin University 1997-2000

- Designed an automatic retroreflector measuring device including mechanical design, electrical circuit design, and optical system for highway applications.
- Directed two undergraduate students' research and supervised their thesis.
- Composed the funding proposals which amounted to $50,000.
- Taught undergraduate class, supervised experiments and graded assignments.

TEACHING EXPERIENCE

Graduate Assistant, Mechanical Engineering, University of Delaware, 2001-2001.

- Maintained the homepage for the department, using HTML/mSQL languages.
- Led group discussions, prepared the experiment instrumentation, graded their assignments, and video recording presentations for the senior design 2000 class.

Assistant Lecturer for introductory electronics experiment, Tianjin University

- Preparation of the experimental procedure, setup of the experimental apparatus, providing the introduction of the experiment, responding to their questions they encountered in the experiment, and grading their reports.
- Students rated my lecture 4.5 out of 5 point scale.

INDUSTRIAL EXPERIENCE

Intern Software Engineer, Zhongxing Communication Inc, Shanghai, 2000.

- Developed one module of switchboard software for fee-charging purpose.

Project Leader, Daewoo Company, Seoul, 1996-1997.

- Directed and administrated the training process of a fifteen-member group.
- Exhibited leadership while enhancing teamwork to achieve stated goals.

Mechanical Design Engineer, Qingdao Brown-Sharpe Inc., 1994-1996.

- Conceptualized and designed prototype of Coordinate Measuring Machine.
- Conducted FEM/FEA of the frame and the outer cover of the CMMs.
- Enhanced the frame rigidity and the measurement accuracy dramatically by proposing novel ideas and improving previous design.

COMPUTER SKILLS

Operating Systems:	MSDOS, Windows 95/98/NT, Windows XP, UNIX.
Computer Languages:	C/C++, Visual Basic, Visual C++, FORTRAN.
Scientific Applications:	MATLAB/Simulink, Maple, dSPACE, ControlDESK.
Technical Drawing:	AutoCAD, Microsoft Visio, PhotoShop.
Office Applications:	Microsoft PowerPoint, Access, Excel, Word, Lotus Notes.
Internet Development:	HTML, MSQL, Java, TCP/IP.
Database:	Sybase, Oracle, ODBC, Microsoft Access.

AWARDS

- Graduate Assistantship, University of Delaware, 2000-2001.
- Research Assistantship, University of Delaware, 2001-2003.

AFFILIATIONS

- Member of the American Association of Mechanical Engineering (ASME).
- Member of the Institute of Electrical and Electronics Engineers (IEEE).

PUBLICATIONS

1. Pota, H. R., Agrawal, S. K., and (Name), A Flatness Based Approach to Trajectory Modification of Residual Motion of Cable Transporter Systems, accepted in Journal of Vibration and Control.

2. (Name), Agrawal, S. K. and Hagedron, P., Modeling and Control of Flexible Transporter System with Arbitrarily Time-Varying Cable Lengths. Submitted to Journal of Vibration and Control.

3. Pota, H. Rl, Agrawal, S. K. and (Name) and Petersen, I. R., Robust Control of Residual Motion of Cable Transporter Systems. Submitted to Journal of Dynamic System, Measurement and Control in April, 2003.

4. (Name), Agrawal, S. K. and Hagedron, P., Modeling and Control of Flexible Transporter System with Arbitrarily Time-Varying Cable Lengths ASME 2003 Design Engineering Technical Conferences and Computers and Information in Engineering Conference, Chicago, Illinois USA, September 2-6, 2003.

5. Pota, H. R., Agrawal, S. K. and (Name), and Petersen, I. R., Robust Control of Residual Motion of Cable Transporter Systems, Proceedings of American Control Conference in Denver, Colorado USA, pp. 1446-1451, June 4-6, 2003.

6. (Name), Pota, H. R., and Agrawal, S. K., Suppression of Residual Vibration in Elevators with Time Varying Cable Lengths, Proceedings of American Control Conference, Alaska, pp. 4962-4966, 2002.

7. Pota, H. R., Agrawal, S. K. and (Name). A Flatness Based Approach to Trajectory Modification of Residual Motion of High-rise Elevators, Proceedings of American Control Conference, Arlington, VA, pp. 1587-1592, 2001.

8. (Name), The Application of Blurring Mode Identification & Artificial Neural Network in Coordinate Measuring Machine, Proceedings of China Machine Engineering Association, 1998.

PRESENTATIONS

1. (Name), Agrawal, S. K., and Hagedorn, P., Modeling and Control of Flexible Transporter System with Arbitrarily Time-Varying Cable Lengths ASME 2003 Design Engineering Technical Conferences and Computers and Information in Engineering Conference, Chicago, Illinois USA, September 5, 2003.

REVIEWER

1. ASME International Design Engineering Technical Conferences, Nineteenth Biennial Conference on Mechanical Vibration and Noise in 2002 and 2003.

2. IEEE International Control and Robotics Automation (ICRA) in 2003.

3. IEEE Conference on Decision and Control (CDC) in 2003.

4. ASME Mechanisms and Robotics Conference in 2002.

5. American Control Conference in 2004.

REVIEWED PAPERS

1. A Semi-Autonomous Replicating Robotics System, by Jackrit Suthakom, Yong T. Kwon, GregoryS. Chirikjian.

2. Torsional Buckling and Writhing Dynamics of Elastic Cables and DNA, by S. Goyal, N. C. Perkins, and Christopher L. Lee.

3. An Object-Oriented Graphical Interface for Dynamic Finite Element Modeling of Belt-Drives, by Tamer M. Wasfy and Michael J. Leamy.

4. Mechanical Design of a Robotic System for Automatic Installation of Magnetic Markers on the Roadway, by Randy James, Basar Ozkan and Bahram Ravani.

5. On the Stability of Coupled Delay Differential and Continuous Time Difference Equations, by Pierdomenico Pepe, and Erik I. Verriest.

6. A Distributed and Optimal Motion Planning Approach for Multiple Mobile Robots, by Yi Guo and Lynne E. Parker.

7. Trajectory Planning Using Reachable-State Density Functions, by Richard Mason and Joel W. Burdik.

8. Robust Observer Backstepping Neural Network Control of Flexible Joint Manipulator, by Withit Chatlatanagulchai, Hyuk Chul Nho, and Peter H. Meckl, Member of IEEE.

HIGHLIGHTS OF QUALIFICATIONS

- Two years industrial experiences in design and control of coordinate measuring machine (CMM), including mechanical design and control algorithm design.
- One year project manager experience in Daewoo Company
- Interns both in industrial and academic environment.
- Familiar with Modal and Vibration Analysis and Control.
- Strong background in sensor theory and design, analog and digital circuit.
- Flexible distributed parameter systems (cable systems) modeling & design.
- Strong background in MATLAB/Simulink, S function, dSPACE, and LabView.
- Comprehensive knowledge on feed-forward, feedback control, non-linear control.
- Computer Programming (C/C++, Visual C/Basic, Maple, Mathcad, Mathematica).
- Familiar with Finite Element Method and Analysis software (ANSYS, Nastran).
- Passive and Active Vibration Control of cable suspended robots, tether satellites.
- Optimization, dynamics, mechatronics, robust control and robotics.
- Expertise in metrology and precision measurement, precision instrument design.
- Excellent public speaking and communication skills, self-motivated team player.

RELEVANT COURSES

Ph.D. Courses:

- Structural Dynamics and Control
- Applied Nonlinear Control
- Linear System Theory
- Advanced Topics in Robotics
- Planning and Control of Dynamics
- Intermediate Dynamics
- Robotics
- Intermediate Fluid Mechanics
- Methods of Optimization
- Introduction to Laboratory Instrument
- Advanced Engineering Mathematics
- Introduction in Computer Science
- Advanced Topics in Dynamics
- Intermediate Heat Transfer
- Intermediate Solid Mechanics
- Intermediate Engineering Mathematics

Previous Courses:

- Modern Sensing Technique
- Basics of Analog Electronic Techniques
- Mechanics of Materials
- Basics of Digital Electronic Techniques
- Design of Precision Instruments
- Precision Instrument Circuit
- Algorithmic Language
- Metallic Materials & Heat Treatment
- Theoretical Mechanics
- Complex Functions
- Field Theory
- Basics of Circuits
- Fundamentals of Microcomputer
- Microcomputer Interface Principles
- Computer Network
- Technique of Multimedia
- Auto-Control Theory
- Numerical Calculation
- Mechanical Principles
- Engineering Optics
- Sensor Technology
- Advanced Mathematics
- General Chemistry
- Error Theory
- Linear Algebra
- Probability & Statistics
- Experiment of Physics
- Dimensional Measurements
- Computer Vision & Application
- Nanotechnology
- IBM-PC Interface Technique
- Java Computer

REFERENCES

Prof. Sunil K. Agrawal Ph. D.
222 Spencer Laboratory
Mechanical Engineering Department
University of Delaware
Newark, DE 19716-3140
Email: agrawal@me.udel.edu
Telephone: 302-831-8049
Fax: 302-831-3619
Prof. Agrawal is my Ph. D. dissertation advisor.

Prof. Michael J. Piovoso Ph. D.
Penn State Great Valley
30 E. Swedesboro Road
Malvern, PA 19355-1443
Email: mjp5@psu.edu
Telephone: 610-648-3356
Fax: 610-648-3377
I took Dr. Piovoso's Linear Theory class and he is also a member of my dissertation committee.

Prof. Michael M. Greenberg Ph. D.
106 Spencer Laboratory
Mechanical Engineering Department
University of Delaware
Newark, De 19716-3140
Email: greenberg@me.udel.edu
Telephone: 302-831-8159
Fax: 302-831-3619
Dr. Greenberg taught me Advanced Engineering Mathematics class, member of my dissertation committee.

Prof. Jianqiao Sun Ph. D.
229 Spencer Laboratory
Mechanical Engineering Department
University of Delaware
Newark, DE 19716-3140
Email: sun@me.udel.edu
Telephone: 302-831-8686
Fax: 302-831-3619
Dr. Sun taught me Applied Nonlinear Control class, member of my dissertation committee.

Translational Research Scientist

Company: AVEO Pharmaceuticals, Inc.

Address: 75 Sidney Street, 4th Floor
Cambridge, MA 02139

Category: Drug Discovery

Job Code: MassBio

Description: We are seeking an outstanding, highly-motivated Research Associate with a strong background in molecular biology and working experience with in vivo models. The successful candidate will join a dynamic, multi-disciplinary team of scientists and associates to discover, validate and generate novel therapeutics against molecular targets in oncology using AVEO's proprietary platforms. This approach integrates our insights into molecular mechanisms of tumorigenesis with the use of genetically-characterized, inducible tumor models to experimentally identify, validate and support the development of therapeutics against next-generation cancer drug targets.

Qualifications:

Candidates must have a BS or MS in molecular biology, biochemistry or related fields, along with at least 3 years of relevant experience. Candidates should have versatile technical skills in molecular biology and a strong background in cancer biology. Responsibilities will include cloning, tissue culture of mammalian cells, generation and use of retroviruses, immunohistochemistry, as well as use of in vivo tumor models in drug discovery. An understanding of genetic principles and experience with in vivo models are preferred. The successful candidate will have strong problem-solving and communication skills. Talented individuals committed to scientific excellence with a record of achievement and the ability to work effectively both independently and in a team-oriented environment, are strongly encouraged to apply.

Translational Research Scientist

Company: AVEO Pharmaceuticals, Inc.

Address: 75 Sidney Street, 4th Floor
Cambridge, MA 02139

Category: Drug Discovery

Job Code: MassBio

Description: We are seeking an outstanding, highly-motivated scientist with a background in cancer biology and experience with in vivo models. The successful candidate will join a dynamic, multi-disciplinary team of scientists to discover, validate and generate novel therapeutics against molecular targets in oncology using AVEO's novel Human Response Prediction (HRP) platform. This approach integrates our insights into molecular mechanisms of tumorigenesis with the use of genetically-characterized, inducible tumor models to experimentally define biomarkers of response to next-generation cancer drugs.

Responsibilities:

- Design, develop, characterize, implement and validate relevant in vivo oncology-related models including subcutaneous, orthotopic, hematological and metastatic tumor models.
- Written and oral presentations within a multidisciplinary team environment both internally and through conferences and publications.
  Establish innovative pharmaco-dynamic assays and tumor models tailored to the molecular target of interest, including compound formulation and assessments of efficacy and PK/PD for drugs alone or in combinations.
- Supervision of 1-2 research associates and dynamic interaction with scientists from other groups.

Qualifications:

Candidates must have a PhD degree in molecular biology, biochemistry or related fields, with expertise in oncology or in vivo pharmacology and at least three years postdoctoral and/or industry experience. Working familiarity with the use of tumor models in drug discovery, pharmacogenomics, and solid knowledge of statistical tools is strongly preferred. Emerging leaders with a record of scientific excellence through high quality publications, a demonstrated ability to work effectively in a team setting, and superior communication skills are encouraged to apply.

Director, Virology-HCV

Company: Idenix Pharmaceuticals, Inc.

Address: One Kendall Square, Bldg 1400

Cambridge, MA 02139

Category: Drug Discovery

Job Code: MBC1207DV

Description: Director, Virology-HCV

Reporting to the Vice President - Biology, the Director, Virology will be involved in drug discovery and development to support advancement of the company's anti-viral pipeline.

Primary Responsibilities:

Works within a multi-disciplinary team of scientists to ensure successful delivery drug discovery and development programs.
Oversees the design and implementation of the following studies: various cell-based antiviral / cytotoxicity assays as well as enzymatic assays in vitro; molecular mechanism of drug action/drug interaction studies, drug resistance studies in various preclinical models.
Monitors research activities related to the identification and characterization of new targets.
Leads a HCV group in conducting research activities and provides technical leadership in the group's research activities
Other related duties as required, including assistance with preparation of regulatory submissions participate in the preparation of INDs, NDAs, annual reports, and other regulatory documents.

Requirements:

Candidate will hold a MS or PhD degree in V virology, Molecular Biology or a related field) 12-15 years of relevant experience, including 8-10 years in industry.
Candidate should have proven ability to direct and lead a team of talented scientists and strong skills in interpreting data and writing scientific reports and manuscripts. Candidate should be able to interact well with other disciplines in cross functional teams
Substantial technical writing experience is essential - documented first authorship of protocols, study reports, regulatory communications, manuscripts, etc.
Proficiency in virology and the ability to perform in a fast-paced, growing company environment is essential.
Experience with Antiviral compound discovery and development and successful IND filings of antiviral compounds preferred.
Therapeutic area (anti-infective, anti-viral) training and experience are desirable.
Research budget and project management skills are required.

Scientist or Senior Scientist

Company: Quanterix Corporation

Address: 1 Memorial Drive

Cambridge, MA 02142

Category: Biology

Job Code: S-105

Description: Description: We are seeking a talented and highly motivated scientist to spearhead the development of ultra-sensitive protein assays based on our proprietary single molecule detection platform. The position will involve the hands-on development of assays for detecting a number of proteins relevant to oncology, inflammation, and infectious diseases. These assays will be developed using Quanterix's microsystem technology and reagents commonly used for immunoassays. The scientist will be expected to design and implement experiments to demonstrate ultra-sensitive detection of proteins. The scientist will work closely with the chemists and engineers at the company to implement novel chemistries and instrumentation into the protein detection platform. The scientist will be responsible for the characterization and validation of novel protein assays.

Requirements: Candidates should possess a Ph.D. in biochemistry, molecular biology, immunology or an equivalent discipline. Three or more years experience in the life sciences industry is required. Candidates must have a broad experience and knowledge of a range of biochemical and molecular biology techniques, especially immunoassays. Candidates with a strong background in immunology are desired. Experience with chemically modifying and purifying antibodies is highly desired. Candidates who have experience developing protein microarrays, especially in an industrial setting, are encouraged to apply. Candidates should have excellent organizational and communication skills, the ability to work in a fast-paced interdisciplinary environment, and the desire to work collaboratively on multiple projects. Ideally, candidates should have experience implementing cutting-edge microsystem- or nano-technologies to develop biological assays.

Scientist, Toxicology

Company: Synta Pharmaceuticals Corp.

Address: 45 Hartwell Avenue
Lexington, MA 02421

Category: Biology

Job Code: MassBio

Description: **Synta** Pharmaceuticals Corp. is a biopharmaceutical company focused on discovering, developing, and commercializing small molecule drugs to extend and enhance the lives of patients with severe medical conditions, including cancer and chronic inflammatory diseases. Synta has a unique chemical compound library, an integrated discovery engine, and a diverse pipeline of internally-developed drug candidates targeting large therapeutic markets in clinical and preclinical development. Based in Lexington, MA, Synta is building a world-class organization and currently employs 160+ professionals.

Current Opportunity - Scientist, Toxicology

This is an exciting position for an experienced scientist and will allow the opportunity to conduct toxicology studies, serve on various project teams and collaborate closely with scientists within Biology and in other departments.

Responsibilities:

- Design and perform in vivo toxicology studies in rodents to support drug discovery research at Synta.
- Design and conduct in vivo and in vitro toxicology studies to evaluate preclinical drug candidates and investigate the mechanisms of toxicity.
- Analyze and interpret toxicological findings, write reports, prepare accurate study summaries, and be able to present the findings at project meetings.
- Serve on selected discovery project teams to provide strategic inputs on toxicological studies, assist in evaluating toxicology data on new chemical entities, and optimize lead candidate selections.
- Establish and conduct new and appropriate in vivo and in vitro assays for toxicity screens on different classes of compounds.
- Conduct experiments to investigate the mechanisms of drug-induced toxicity and apply genomic and proteomic techniques for drug risk assessment.
- Help select and monitor Non-GLP toxicity studies at CRO.

Qualifications:

- PhD or equivalent in Toxicology/Pharmacology/Physiology or related field.
- 2+ years of industry experience.
- Solid experience with rodent handling.
- Familiar with the design and execution of toxicity studies.
- Strong oral and written communication and interpersonal skills.
- Additional experience in Molecular Biology is a plus.

Following the announcement of positive clinical results for its lead oncology drug, STA-4783, in a randomized, double-blind, controlled Phase 2 study in metastatic melanoma, a devastating cancer with an extremely poor prognosis; Synta Pharmaceuticals is looking to expand its team.

Please apply online at http://www.syntapharma.com/CareerHome.aspx

EOE. No third party submissions from recruiters, please.

Please refer to Job Code MassBio when corresponding about this position.