

ANN PATRICE EVANS

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Professional Summary

Skilled Research Scientist, specialising in natural products biochemistry, biomaterials, pharmaceutical analysis and cardiovascular devices. Experience in the development, management and execution of *in vivo* and *in vitro* experiments. Thorough understanding and working knowledge of Good Manufacturing Practices (GMP). Ten years supervisory and teaching experience in a research and development laboratory setting. Excellent technical, communication, organisational and hands-on problem solving skills. Expertise in high performance liquid chromatography (HPLC), gas chromatography (GC), infrared (IR), ultraviolet and visible spectroscopy (UV-VIS), dissolution technology and in fluorescence, and scanning electron microscopy (SEM).

Work Experience

Scientist II and Project Leader in the Pharmaceutical Development and Analytical Laboratories of MDS Pharma Services, Tampa, Florida. 1997 to 2003. MDS Pharma Services is a contract research organization.
<http://mdsps.com/discover/Pharmaceutics.htm>

My current duties include:

- Responsible for the preparation of experimental designs, budgets, plans, schedules and manpower estimates for a new drug application (NDA) project.
- HPLC method development and validation for dissolution, potency and purity assays.
- Write standard operating procedures, test methods, protocols and reports.
- Research and recommend the purchase of analytical software and equipment.
- Responsible for training analytical staff members.
- Supervise a research and development group involved in analytical method development and validation for new drug substances, formulations, finished products and stability samples.

Achievements: The first year MDS PS was in operation, 60% of analytical revenue earned was from a project that I managed. The Sponsor of that project has been so impressed with the quality of the work, that I am now working on the 33rd contract from the same Sponsor.

Senior Chemist and Laboratory Supervisor in the Quality Control Laboratory of Pralex Corporation, Saint Croix, United States Virgin Islands. 1995-1997. Pralex Corporation manufactures cephalosporin antibiotics.

- Recruit an international staff of laboratory personnel.
- Train chemists in the operation, calibration, maintenance, and repair of analytical instruments.
- Purchase HPLCs, GCs, Spectrophotometers, Dissolution stations and analytical equipment and supplies.
- Analyze five cephalosporin formulations in tablet, capsule and suspension form.
- Test raw materials, in process samples, finished products, stability samples, R&D formulations and packaging materials.

Achievements: Transformed an inefficient, out of compliance pharmaceutical laboratory into a state of the art GMP facility. The increased analytical capacity enabled Pralex to expand manufacturing to 3 shifts per day.

Research Chemist II in the Biomaterials Engineering Department of Cordis Corporation, Miami Lakes, Florida. 1988 to 1994.

Cordis Corporation invents and manufactures cardiovascular devices.

- Responsible for establishing a thrombosis and hemostasis laboratory dealing with blood-biomaterial interactions and their application to implantable and biodegradable cardiovascular devices.
- Project Leader for the coronary stent antithrombogenic coatings project.
- Assist engineering groups in designing and testing angioplasty catheters, percutaneous closure devices and endovascular stents.
- Develop *in vitro* coagulation and platelet assays for evaluating radio frequency plasma deposited coatings on polymeric and metal surfaces.
- Conduct *in vivo* thrombosis studies of balloon angioplasty catheters and endovascular stents.
- Harvest and preserve implanted devices along with relevant tissues for

pathology studies.

- Purify and evaluate human, plant and animal bioactive compounds for use as biological coatings, antithrombotics and hemostasis agents.
- Received Performance Awards for developing an enzyme linked immunosorbent assay (ELISA) for the determination of biologically active covalently bound heparin and for developing an inactivated partial thromboplastin test.

Achievements: Invented a covalently bound antithrombogenic coating for endovascular stents and balloon catheters.

Senior Chemical Laboratory Technician and Safety Officer in the Chemical Physical Quality Assurance Laboratory of Cordis Corporation. 1984 to 1988

- Evaluate product failures and deficiencies discovered during manufacturing or clinical use. Isolate the mechanisms and develop rationales for product dysfunction. Recommend corrective action and evaluate results.
- Implement quality control operating procedures and develop analytical tests to be used by R & D and the Receiving Inspection Department to assess new raw materials for cardiac pacemakers, neurological and angiographic devices.
- Received a Performance Award for developing a gas chromatography procedure for analyzing lithium electrolyte.

Marine Biologist at Everglades National Park Research Center, Homestead, Florida. 1978 to 1984

- Conduct marine benthic studies on the ecology of the commercially harvested pink shrimp, *Penaeus duorarum*.

Education

Master of Science in Biology / Biochemistry. Florida International University 1994

Bachelor of Science in Biology / Chemistry. Barry University 1981

Member of the American Chemical Society since 1984

Publications

Light Dependent Relationship Between Furanocoumarins and Carotenoids in *Apium Graveolens*. The Joint Meeting of the Phytochemical Society of North America and the Phytochemical Society of Europe. April 1997 The Netherlands.

Master of Science Thesis: The Biochemical Relationship of Furanocoumarins and Carotenoids in *Apium Graveolens* Grown Under High and Low Light Conditions. 1994 Florida International University Library.

A Thrombin-Antithrombin (TAT) Assay for the Determination of Biologically Active Covalently Bound Heparin. 1991 Biomaterials Engineering Meeting in Miami, Florida.

The Affect of Water Quality on the Harvest of Pink Shrimp in Florida Bay. The Meeting of the Wetlands Preservation and Restoration Society of the Gulf of Mexico States. October 1984. Ft. Lauderdale, Florida.

Teaching Experience

I taught the following seminars to graduate students, laboratory staff and to consultants in the USA, France, Belgium and England. When European consultants could not travel to the United States, I taught the seminars using video conferencing.

- o Reverse Phase High Performance Liquid Chromatography (HPLC) of Biological Compounds
- o A Novel HPLC Method for Separating Lutien from Zeaxanthin
- o Gel Permeation Chromatography of Synthetic Polymers
- o Affinity Chromatography of Plasma Proteins
- o Isolation of Heparins that have a High Affinity for Antithrombin III
- o The Analysis of Factor Xa as a Measure of Biocompatibility
- o Fluorescence Spectroscopy and Microscopy of Berberine Dyes
- o Complement Activation by Medical Devices
- o *In Vitro* Platelet Adhesion On Endovascular Stents Tested in a Modified Sacharriason Flow Cell
- o An Acute Canine Interarterial Thrombotic Assay
- o Preservation of Adhered Platelets for Scanning Electron Microscopy
- o ISO 9000 Biocompatibility Standards
- o An Inactivated Partial Thromboplastin Assay for Assessing Blood-Biomaterial Interactions
- o An Enzyme Linked Immunosorbent Assay (ELISA) for the Determination of Biologically Active Covalently Bound Heparin
- o Principles and Operation of ELISA Tests
- o Laboratory Safety
- o Vascular Biology
- o Dissolution of Immediate and Extended Release Oral Dosage Forms