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# David Wicks

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## RELEVANT EXPERIENCE

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### **Aurora Biomed Inc.**, Vancouver, BC

#### *Project Manager (January 2005 to present)*

- Manage development of the Versa series (lab automation and liquid handling robotic systems) which includes long term planning, progress evaluation, study of marketing and sales reports, allocation of resources and coordination of application scientists and mechanical, software, and electrical engineers.
- Developed SOPs and testing protocols for instrument calibration, validation, and method development.
- Developed a software design document describing software requirements and structure.
- Designed and implemented a design plan form and inter-office bulletin board to improve communication between departments, long term planning, and employee input into projects.
- Communicate with the sales and marketing departments to ensure development will meet the market and customer needs.
- **Results:** The Versa 100 and 1000 are now at the beta testing stage and a customized instrument for peptide synthesis was developed and delivered to a customer in 6 months. A system for automated PCR preparation is also nearing the prototype stage after only 3 months from the initial concept being put forward.

#### *Research and Development Assistant Manager (June 2004 to December 2004)*

- Developed a patch clamp screening program for hERG and NaV1.2a ion channels and an *in vivo* screen for hERG toxicity. Validation of these protocols has since been completed.
- Designed and implemented an incentive program to improve planning and productivity.
- **Results:** Patch clamp screening is now available to customers and instrument production has been maintained despite cutbacks in the number of production staff.

#### *Patent Manager (August 2003 to present)*

- Under guidance from a patent lawyer, manage the companies' patent files. Approximately 12 patents are in process from the provisional patent stage to the review stage.
- **Results:** 4 technologies have since been granted patents and several others are nearing completion.

#### *Ion Channel Retreat Coordinator (June 2003 to June 2004)*

- Successfully planned and executed a scientific conference that was attended by over 60 delegates and 25 speakers from Europe and North America. This involved recruiting a scientific advisory board from academy and industry and working with them to put together the speaker list and program through review of abstracts and selection of speakers.
- **Results:** The conference received great reviews from both attendees and our media sponsors.

#### *Lab Assistant/Lab Technician (February 2003 to June 2003)*

- Installed instruments at customer sites in Germany and Sweden and trained users.
- Developed a QC system for buffers and standard solutions.
- **Results:** Customers instruments have been in service to present and the QC system is still in use.

**Lab of Dr. Peter Unrau, Burnaby, BC**

*Honors Research Project (September 2002 to December 2002)*

- Designed and carried out experiments to complete the concept proof of a novel separation device.
- **Results:** Delivered a presentation outlining the design of a commercial device for the separation of chiral compounds based on the data obtained during the semester.

**Lab of Dr. Paul Li, Burnaby, BC**

*Lab Assistant (Summers of 2001, 2002)*

- **Results:** Completed work that led to the publication listed below on microfluidic chips as well as a poster presentation on contracting bodies and a novel sensing technology.

SELECTED PUBLICATIONS (Complete list with authors available on request)

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- **Separation of Fluorescent Derivatives of Hydroxyl-containing Small Molecules on a Microfluidic Chip.** *Analytica Chimica Acta*. April 2004, Vol. 507, No. 1: 107-114.
- **Development of an HTS Assay for Na<sup>+</sup>, K<sup>+</sup>-ATPase Using Nonradioactive Rubidium Ion Uptake.** *ASSAY and Drug Development Technologies*. Oct 2004, Vol. 2, No. 5: 535-542.
- **Atomic Absorption Spectroscopy in Ion Channel Screening.** *ASSAY and Drug Development Technologies*. Oct 2004, Vol. 2, No. 5: 569-574.
- **Development and Evaluation of an Automated Cell-based Flux Assay for HTS of hERG.** (Submitted to *Journal of Biomolecular Screening*, 2005).
- **Development & Validation of an HTS Flux Assay for Chloride Channels Endogenously Expressed in CHO-K1 Cell Line.** (Submitted to *ASSAY and Drug Development Technologies*, 2005).

AWARDS

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- NSERC Undergraduate Student Research Award (2002),
- Undergraduate Award in Analytical Chemistry from the ACS (2002)
- Ken Caples College Transfer Entrance Scholarship (1999)
- Capilano College Science/Chemistry Scholarship (1998)
- Governor Generals Award (1995)

EDUCATION

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**Bachelor of Science (Honors)**, Simon Fraser University, Burnaby, BC (December 2002)

- Molecular Biology and Biochemistry with a minor in Chemistry. GPA: 4.12

**Diploma in Biblical Studies**, Full Gospel Bible Institute, Eston, SK (April 1997)

REFERENCES

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- Dr. Sikander Gill, Aurora Biomed, phone: 604-215-8700
- Dr. Paul Li, Simon Fraser University, phone: 604-291-5956
- Dr. Peter Unrau, Simon Fraser University, phone: 604-291-3448