



Ryan David Timmons

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Education

1998 – 2002 STANFORD UNIVERSITY PALO ALTO, CA
Bachelor of Science in Chemical Engineering, June 2002.

Experience

5/04 - present ORACLE FORENSICS INC. PHOENIX, AZ
Engineer

- Aid and investigate chemical product liability, product analysis, failure mode analysis, thermodynamic calculations, and engineering consultation.

1/04 – present ALEXZA PHARMACEUTICALS PALO ALTO, CA
Engineer III

Support research and development activities as member of device technology team.

- Project team leader for AZ-007, Alexza's seventh drug candidate. Interface with groups across the company to ensure that nonclinical, clinical, and manufacturing deadlines are met. Report on project status to the executive team on a monthly basis. Lead technical device development. Responsible for filing Investigational New Drug application to the FDA next summer.
- Design and perform device demonstrations for potential investors and partner companies. Compile and edit technical presentations for business development team.
- Head analysis and investigation process for returned clinical devices. Summarize results from pivotal Phase IIB trial for migraine drug product.
- Led research effort on aerosol energy content, a key FDA concern about Alexza's technology. Designed experiments, performed detailed mathematical modeling, and conducted an extensive literature review. Summarized and presented findings to executive team; research was instrumental in solidifying Alexza's position on the subject with the FDA.
- Performed research on the fundamentals of Alexza's patented aerosolization process. (Myers et al., The Effect of Film Thickness on Aerosol Generation, *Pharmaceutical Research*. 2007 Feb; 24(2):336-42.)
- Conducted extensive research supporting design and development of Alexza's first multidose inhalation device. Advanced technology from an early-stage concept into a device suitable for Phase I clinical trials. One patent pending (US application #20050268911).
- Developed drug-coating process for Alexza's first clinical trial program. Documented procedure to comply with FDA regulations (cGMP).

7/02 – 12/03 **Research Associate**
Conducted research to broaden Alexza's pipeline and improve device performance as part of chemical research group.

- Performed drug-screening experiments to determine drug compatibility with Alexza's aerosolization technology. Helped identify Alexza's first clinical trial drug.
- Identified a diffusion denuder method to characterize aerosol properties of high vapor pressure drugs. Simplified method to increase throughput and reduce operator error.
- Created HPLC quantification methods to assay drug content for use in experiment analysis. Performed HPLC maintenance and trained new employees on use.

6/01 – 9/01 APPLIED MATERIALS SANTA CLARA, CA
Engineer

- Performed wafer etching experiments in Applied's Silicon Etch division.
- Learned plasma chemistry fundamentals and clean room protocol.
- Worked with Applied scientists to develop manufacturing techniques for customers.