

Sigmund F. Becker

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Department of Biochemistry
The Loadstone Institute
2000 25th Ave
San Francisco, CA 95677

PROFESSIONAL PROFILE

- *Technical areas of expertise:* biophysics, chemistry, molecular biology, protein biochemistry
- *Specialized expertise:* structural biology, molecular modeling, genomics, bioinformatics, proteins, enzymes, molecular recognition, assay techniques, fluorescence tagging, carbohydrates, magnetic resonance imaging (MRI), microfluidics, nuclear magnetic resonance spectroscopy (NMR)
- *Language:* Fluent both verbal and written in French, conversational in Spanish

EDUCATION	University of Minnesota, St. Paul, MN Ph.D. in Biochemistry	20xx
	Wilhelms College, Dearborn, MA A.B. in Biology (dual major in Chemistry) <i>Cum Laude, GPA 3.75</i>	20xx

TECHNICAL EXPERIENCE

Senior Research Associate 20xx – present

Department of Biochemistry, The Loadstone Institute, San Francisco, CA

- Developed novel modeling method that improved efficiency of biomolecular structure determination
- Collected and analyzed structural data on protein-DNA complex related to Alzheimer's disease using nuclear magnetic resonance spectroscopy (NMR)
- Built and modified analysis cell for commercial flow cytometer improving analysis precision and speed by 45%

Research Assistant 20xx -20xx

Department of Biology, University of Minnesota, St. Paul, MN

- Solved the 3-dimensional structure of a transcription factor protein important in tissue cell development using NMR and data and molecular force fields in a simulated annealing protocol
- Developed new HPLC method for separation of hyaluronan oligosaccharides
- Collaborated with colleagues to produce 6 peer-reviewed publications, conferences presentations and successful grant proposals

Research Technician 20xx – 20xx

Center for Bioanalytical Research, Bradley, AL

- Developed assay for amino acids with 300% increase in sensitivity above existing methods
- Studied kinetics of fluorescent tag reactions for labeling amino acids

CONSULTING EXPERIENCE

- Evaluated technical feasibility of small biotech company's diagnostic equipment idea (infrared microimager) for investment group associated with *University of California, San Francisco's Technology Forum* (20xx)
- Summarized information on viral diseases for *Golworth & Co., LLP*, to help evaluate potential utility of licensed compound for treatment of viral infections in animals (20xx)

TEACHING EXPERIENCE

Senior Instructor

20xx – 20xx

University of Minnesota Center for Health Sciences, St. Paul, MN

- Developed laboratory-based curriculum for undergraduate class in Biochemistry, while teaching weekly lecture sections to 70-90 students, and directly supervised 8 undergrad teaching assistants

Teaching Assistant & Trainer

20xx-20xx

Department of Biology, Wilhelms College, Dearborn, MA

- Trained undergraduate instructors for laboratory-based undergraduate class (Laboratory Methods in Biology, Bio 203)
- Wrote Administered, and graded weekly quizzes and midterm examinations
- Led discussions on teaching methods, professional behavior, and college policies

LEADERSHIP & COMMUNICATION EXPERIENCE

President of The Loadstone Institute Postdoctoral Society

20xx – present

- Lead a 12-member committee in organizing lecture series, symposia, and fund-raising events
- Initiated and lead programs to improve postdoctoral fellows contact with biotech industry

University of Minnesota Student-Faculty Liaison Committee

20xx – 20xx

- One of 6 representatives to campus-wide committee representing 1100 graduate students
- Arbitrated disputes between students and faculty and assisted in mediating conflicts regarding tuition support, housing, leave and benefits, and intellectual property

AWARDS

National Institute of Health Postdoctoral Fellowship

20xx – present

Department of Education Graduate School Fellowship

20xx – 20xx

National Science Foundation Summer Biochemistry Fellowship

20xx

Merck Award (Wilhelms College)

20xx

SELECTED PUBLICATIONS & PRESENTATIONS

[Add publication talks in standard citation format, bolding your name and noting and including first authorships and invited talks as appropriate]