Daniel Maarten Janse Ph.D.

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EDUCATION

Harvard University and Harvard Medical School, Cambridge and Boston, MA **1998-2004**
Ph.D., Biological and Biomedical Sciences

Brown University, Providence, RI **1994-1998**
Completed 5-year dual-degree in 4 years
Oettinger National Scholar, $20,000 for academic achievement (presented to 40 freshman out of 1000)
B.Sc. / B.A. with Honors in Biochemistry and Economics

RESEARCH EXPERIENCE

Post-Doctoral Research **2004-Present**
Department of Genetics, Harvard Medical School

- Submitted patent for novel drug synthesis platform based on doctoral work (see below).
- Published co-first author featured article in the inaugural issue of *Nature Molecular Systems Biology.*
- Creating novel small molecules for inducible degradation of disease-causing proteins.
- Developing experimental methods for reconstructing biological networks based on time-series measurements of small molecule-inducible conditional alleles.
- Negotiated academic and industry-based collaborations to initiate high-throughput screening of small-molecule compounds for the synthesis of novel drugs (Broad Institute, Graffinity, Neogenesis).

Doctoral Research **1998- 2004**
Department of Genetics, Harvard Medical School
Advisor: George Church

- Published first author paper in the *Journal of Biological Chemistry*, two contributing author papers in *Bioinformatics* and *Genome Research.*
- Designed and implemented three novel protein degradation systems in *S. cerevisiae*.
- Worked in close collaboration with other scientists to develop new experimental and computational technologies for the emerging field of systems biology.
- Presented research to lay and expert audiences. (Departmental seminars at Harvard Medical School, MIT and Yale, Harvard Medical School Genetics Retreat, Flagship Ventures, HLM Venture Partners)

Undergraduate Honors Research **1997-1998**
Department of Biochemistry, Brown University
Advisor: Eric Hendrickson

- Performed cross-species hybridization experiments to identify novel orthologs of human KARP-1, a protein involved in DNA double-strand break repair.

LEADERSHIP EXPERIENCE

Team Leader, Ligeia Pharmaceuticals (Biotech Startup Venture) **Spring 2004**

- Recruited, organized and led an interdisciplinary team of three, including an M.B.A., a J.D. and a former consultant in Pfizer's New Product Development Group.
- Composed a business plan based on Ph.D. thesis and entered two competitions:
  - **Finalist:** Harvard Business School Entrepreneurship Idol Competition (1 of 8)
  - **Semi-finalist:** M.I.T. Sloan 50K Entrepreneurship Competition (1 of 32)
- Invited to present business plan to Flagship Ventures and HLM Venture Partners.

Course Co-director and Teaching Fellow, Harvard Medical School **Fall 1999, Fall 2000**

- Co-developed and launched the first course on Genomics and Computational Biology at HMS.
- Devised course outline, researched lecture material and created course assignments.
- Evaluated oral presentations and written performances of 43 students.

Independent Course Development, Harvard Medical School **Spring 1999**

- Identified the need for a course on genomics and computational biology at HMS.
- Led an exploratory survey of subject matter for curriculum development.

PUBLICATIONS

Dudley AM*, **Janse DM***, Tanay A, Shamir R, Church GM. A global view of phenotypically derived protein function in yeast. (2005) *Mol. Syst. Biol.* msb4100004-E1-E11

Janse DM, Crosas B, Finley D, Church GM. Localization to the proteasome is sufficient for degradation. (2004) *J Biol Chem.* 14;279(20):2145-20

King OD, Lee JC, Dudley AM, **Janse DM**, Church GM, Roth FP. Predicting phenotype from patterns of annotation. (2003) *Bioinformatics* 19 Suppl :i183-9

Cheung KJ, Badarinarayana V, Selinger DW, **Janse D**, Church GM A microarray-based antibiotic screen identifies a regulatory role for supercoiling in the osmotic stress response of Escherichia coli. (2003) *Genome Research* 13(2):206-15

**** Authors contributed equally to this work**

PATENTS PENDING

Janse DM and Church GM.
Targeted Protein Degradation Using Small Molecules (2004)