

ROSANNE BOUDREAU

Curriculum Vitae

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SUMMARY OF QUALIFICATIONS

- Graduated from University of California Berkeley; Molecular & Cell Biology, Biochemistry & Molecular Biology – B.A 1995
- Worked as a molecular and cell biologist at Lawrence Berkeley National Laboratory for 19 years, since 1995.
- Worked in the Laboratory of Carolyn Larabell as a cell biologist for 16 years, since 1998 and as lab manager for the last 10 years.

PROFESSIONAL BACKGROUND

RESEARCH EXPERIENCE

- **Lab Manager, Laboratory of Carolyn Larabell – 1998 - Present**

Manage cell culture stocks and in charge of cell culture. Place orders for general lab. Write and maintain Animal Welfare Research Committee animal protocols. Write up and maintain BioUse Authorization documentation. Functional knowledge of word processing, spreadsheet, and presentation software. Safety officer for lab. Member of Building Emergency Team.

Assist in supervision of student volunteers and interns. Learning basic beamline operation and basic LabView software.

- **Technical Assistant 2, Laboratory of Mina Bissell – 1995 -1998**

Managed mouse colonies, screened pups via DNA extraction and PCR, ear tagged mice, chose crossings and mated mice, made mouse primary mammary cultures, maintained Animal Welfare Research Committee mouse protocols; human mammary epithelial cell 2D and 3D cultures, extracted protein via Immunoprecipitation, columns, RNA extraction via trizol, protein and RNA gels, western and northern blots. Maintained cell culture additives stock; learned how to design DNA primers for PCR.

- **Student Volunteer, Laboratory of Mina Bissell – 1995**

Aided in postdoctoral research on integrins in the context of human mammary epithelial cells. My research included mammalian tissue culture, protein extraction by Immunoprecipitation, protein gels and western blots.

- **Student Volunteer, Laboratory of Thomas Cline – 1994 -1995**

Prepared vials for drosophila colony transfers. Cleaned clean room where drosophila food was prepared.

PUBLICATIONS

1. Parkinson, D.Y., L.R. Epperly, G. McDermott, M.A. Le Gros, R.M. Boudreau, and C.A. Larabell. (2013). *Nanoimaging cells using soft X-ray tomography*. *Methods Mol Biol.* **950**, 457-81.
2. Gu W, Pellegrino T, Parak WJ, Boudreau R, Le Gros MA, Alivisatos AP, Larabell (2007) CA. *Measuring cell motility using quantum dot probes*. *Methods Mol Biol.* **374**, 125-31.
3. Gu W, Pellegrino T, Parak WJ, Boudreau R, Le Gros MA, Gerion D, Alivisatos AP, Larabell CA. (2005) *Quantum-dot-based cell motility assay*. *Sci STKE.* **290**, 15.
4. Boudreau, R., B. Engel, W.W. Gu, M.A. Le Gros, A.P. Alivisatos, and C. Larabell. (2005). *Quantum dots enable new findings regarding cancer cell motility and vulnerability*. *Abstracts of Papers of the American Chemical Society.* **229**, U641-U641.
5. Pellegrino, T., W.J. Parak, R. Boudreau, M.A. Le Gros, D. Gerion, A.P. Alivisatos, and C.A. Larabell. (2003). *Quantum dot-based cell motility assay*. *Differentiation.* **71**, 542-548.
6. Parak, W.J., D. Gerion, T. Pellegrino, D. Zanchet, C. Micheel, S.C. Williams, R. Boudreau, M.A. Le Gros, C.A. Larabell, and A.P. Alivisatos. (2003). *Biological applications of colloidal nanocrystals*. *Nanotechnology.* **14**, R15-R27.
7. Parak, W.J., R. Boudreau, M. Legros, D. Gerion, D. Zanchet, C.M. Micheel, S.C. Williams, P. Alivisatos, and C. Larabell. (2003). *Biological uses of semiconducting nanocrystals*. *Abstracts of Papers of the American Chemical Society.* **225**, U954-U954.
8. Johnson, N., M. Krebs, R. Boudreau, G. Giorgi, M. Legros, and C. Larabell. (2003). *Actin-filled nuclear invaginations indicate degree of cell de-differentiation*. *Differentiation.* **71**, 414-424.

9. Parak, W.J., R. Boudreau, M. Le Gros, D. Gerion, D. Zanchet, C.M. Micheel, S.C. Williams, A.P. Alivisatos, and C. Larabell. (2002). *Cell motility and metastatic potential studies based on quantum dot imaging of phagokinetic tracks*. *Advanced Materials*. **14**, 882-885.
10. Muschler J, Levy D, Boudreau R, Henry M, Campbell K, Bissell MJ. (2002) *A role for dystroglycan in epithelial polarization: loss of function in breast tumor cells*. *Cancer Res*. **62**(23), 7102-9.
11. Hirai Y, Radisky D, Boudreau R, Simian M, Stevens ME, Oka Y, Takebe K, Niwa S, Bissell MJ. (2001) *Epimorphin mediates mammary luminal morphogenesis through control of C/EBPbeta*. *J Cell Biol*. **153**(4), 785-94.