

Curriculum Vitae**Robert B. Vernon, Ph.D.**

Research Associate Member, Matrix Biology Program
 Director, Histology and Imaging Core Laboratory
 Benaroya Research Institute
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I. Education

<u>Degree</u>	<u>Institution</u>	<u>Date</u>	<u>Discipline</u>
B.S.	University of Washington	1977	Biology/Zoology
Ph.D.	University of Washington	1985	Cell Biology

II. Professional Experience

1985 – 1987	--- Postdoctoral Fellow, University of Washington
1988 – 1989	--- Senior Postdoctoral Fellow, University of Washington
1990 – 1996	--- Research Assistant Professor, University of Washington
1997 – 1998	--- Research Scientist, University of Washington
1999 – 2000	--- Associate Investigator, Hope Heart Institute, Seattle, Washington
2000 – 2004	--- Assistant Member, Hope Heart Institute, Seattle, Washington
2004 – present	--- Research Associate Member, Matrix Biology Program, Benaroya Research Institute, Seattle, Washington
2005 – present	--- Director, Benaroya Research Institute Histology/Imaging Core

III. Honors and Awards

1977	B.S. Magna Cum Laude
1977	Phi Beta Kappa
1984	A.R.C.S. Foundation Award for outstanding graduate research
1985–87	Lalor Foundation Fellow

IV. Organizations and Service

Member of the American Society for Cell Biology
 Editorial Board Member, *Biomaterials*

V. Bibliography**Published, peer-reviewed papers**

1. Feuchter FA, **Vernon RB**, Eddy EM (1981) Analysis of the sperm surface with monoclonal antibodies: Topographically restricted antigens appearing in the epididymis. *Biol. Reprod.* **24**: 1099-1110.
2. Eddy EM, Herr JC, Feuchter FA, **Vernon RB**, Muller CH, Fenderson BA (1982) The heterogeneity of the sperm surface as analyzed with monoclonal antibodies. *Cell Differen.* **11**: 303-304.
3. **Vernon RB**, Muller CH, Herr JC, Feuchter FA, Eddy EM (1982) Epididymal secretion of a mouse sperm surface component recognized by a monoclonal antibody. *Biol. Reprod.* **26**: 523-535.
4. **Vernon RB**, Hamilton MS, Eddy EM (1985) Effects of *in vivo* and *in vitro* fertilization environments on the expression of a surface antigen of the mouse sperm tail. *Biol. Reprod.* **32**: 669-680.

5. Hamilton MS, **Vernon RB**, Eddy EM (1985) A monoclonal antibody, EC-1, derived from a syngeneically multiparous mouse alters in vitro fertilization and development. *J. Reprod. Immunol.* 8: 45-59.
6. Eddy EM, **Vernon RB**, Muller CH, Hahnel AC, Fenderson BA (1985) Immunodissection of sperm surface modifications during epididymal maturation. *Am. J. Anat.* 174: 225-237.
7. **Vernon RB**, Muller CH, Eddy EM (1987) Further characterization of a secreted epididymal glycoprotein in mice that binds to sperm tails. *J. Androl.* 8: 123-128.
8. Hamilton MS, **Vernon RB** (1987) Inhibition of in vitro fertilization by mouse anti-mouse sperm sera and preliminary antigen identification. *Gamete Res.* 16: 311-317.
9. **Vernon RB**, Linnemeyer PA, Hamilton MS (1989) A monoclonal antibody, MA21, recognizes a surface component that is present on F9 teratocarcinoma cells and that appears vectorially on the trophoctoderm of peri-implantation-stage mouse blastocysts. *J. Reprod. Immunol.* 15: 1-20.
10. Sage H, **Vernon RB**, Decker J, Funk S, Iruela-Arispe ML (1989) Distribution of the calcium-binding protein SPARC in tissues of embryonic and adult mice. *J. Histochem. Cytochem.* 37: 819-829.
11. Sage H, **Vernon RB**, Funk SE, Everitt E, Angello J (1989) SPARC, A secreted protein associated with cellular proliferation, inhibits cell spreading in vitro and exhibits Ca²⁺-dependent binding to the extracellular matrix. *J. Cell Biol.* 109: 341-356.
12. **Vernon RB**, Sage H (1989) The calcium-binding protein SPARC is secreted by Leydig and Sertoli cells of the adult mouse testis. *Biol. Reprod.* 40: 1329-1340.
13. Linnemeyer P, **Vernon RB**, Hamilton MS (1990) A trophoblast specific antigen, recognized by monoclonal antibody MA21, locates a unique trophoblast cell population in the murine placenta. *Placenta* 11: 167-180.
14. **Vernon RB**, Lane TF, Angello JC, Sage H (1991) Adhesion, shape, proliferation, and gene expression of mouse Leydig cells are influenced by extracellular matrix in vitro. *Biol. Reprod.* 44: 157-170.
15. **Vernon RB**, Angello JC, Iruela-Arispe ML, Lane TF, Sage EH (1992) Reorganization of basement membrane matrices by cellular traction promotes the formation of cellular networks in vitro. *Lab. Invest.* 66: 536-547.
16. **Vernon RB**, Sage EH (1992) Extracellular matrix-cell interactions: matrigel and complex cellular pattern formation. *Lab. Invest.* 67: 804-808.
17. Reed MJ, **Vernon RB**, Abrass IB, Sage EH (1994) TGF- β 1 induces the expression of type I collagen and SPARC, and enhances contraction of collagen gels, by fibroblasts from young and aged donors. *J. Cell Physiol.* 158: 169-179.
18. Sage EH, **Vernon RB** (1994) Regulation of angiogenesis by extracellular matrix: the growth and the glue. *J. Hypertension* 12: (suppl 10) S145-S152.
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25. Manoussaki D, Lubkin SR, **Vernon RB**, Murray JD (1996) A mechanical model for the formation of vascular networks *in vitro*. *Acta Biotheoretica* 44: 271-282.
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