

# Carol Nottenburg PhD JD

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**Owner, Cougar Patent Law**  
**264 Seneca Place NW · Renton WA · 98057 · USA**  
**Tel: +1 206 860 2120 · Fax: +1 206 860 3933**  
**c.nottenburg@cougarlaw.com · www.cougarlaw.com**

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<b>Citizenship</b>	<ul style="list-style-type: none"><li>• United States and Australia</li></ul>
<b>Legal Experience</b>	<ul style="list-style-type: none"><li>• Owner, Cougar Patent Law, Renton WA USA (2004 - present)</li><li>• Chief Legal Officer and Director of CAMBIA Patent Lens, CAMBIA, Canberra ACT Australia (1998-2004)</li><li>• Associate Attorney, Seed and Berry, Seattle, USA (1994–1998)</li><li>• Member, Washington State Bar Association since 1994</li><li>• Registered, U.S. Patent and Trademark Office since 1994</li></ul>
<b>Science Experience</b>	<ul style="list-style-type: none"><li>• Assistant Member (Assistant Professor), Division of Clinical Research (1987–1993) Fred Hutchinson Cancer Research Center, Seattle, WA</li><li>• Staff Scientist, Division of Basic Sciences (1986–1987) Fred Hutchinson Cancer Research Center, Seattle, WA USA</li><li>• Postdoctoral Fellow, Department of Microbiology and Immunology (1982–1986) University of California, San Francisco, CA USA</li><li>• Postdoctoral Fellow, Department of Pathology (1981–1982) Stanford University, CA USA</li></ul>
<b>Education</b>	<ul style="list-style-type: none"><li>• J.D., magna cum laude University of Puget Sound Law School (now Seattle University School of Law), Seattle, WA</li><li>• Ph.D., Genetics, Stanford University, Stanford, CA Thesis: Immunoglobulin Gene Rearrangements in Normal B Lymphocytes</li><li>• B.S., Biology, with Honors California Institute of Technology, Pasadena, CA</li></ul>
<b>Professional memberships</b>	<ul style="list-style-type: none"><li>• WSPLA (Washington State Patent Law Association)</li><li>• Advance Australia</li></ul>

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**PUBLICATIONS**—*Selected Refereed Publications*

1. Nottenburg, C., and I.L. Weissman (1981) C gene rearrangement of mouse immunoglobulin genes in normal B cells occurs on both the expressed and non-expressed chromosomes. *Proc. Natl. Acad. Sci. USA* 78: 484-488.
2. Butcher, E.C., R.V. Rouse, R.L. Coffman, C. Nottenburg, R. Hardy, and I.L. Weissman (1982) Surface phenotype of Peyer's patch germinal center cells: implications for the role of germinal centers in B cell differentiation. *J. Immunol.* 129: 2698-2703.
3. Nottenburg, C. and H.E. Varmus (1986) Features of the chicken c-myc gene that influence the structure of c-myc RNA in normal cells and bursal lymphomas. *Mol. Cell. Biol.* 6: 2800-2806.
4. Nottenburg, C., T. St. John, and I.L. Weissman (1987) Unusual immunoglobulin DNA sequences from the nonexpressed chromosome of mouse normal B lymphocytes: implications for allelic exclusion and the DNA rearrangement process. *J. Immunol.* 139: 1718-1726.
5. Idzerda, R.L., W.G. Carter, C. Nottenburg, E.A. Wayner, W.M. Gallatin and T. St. John (1989) Isolation and DNA sequence of a cDNA clone encoding a lymphocyte adhesion receptor for high endothelium. *Proc. Natl. Acad. Sci. USA*, 86: 4659-4663.
6. Nottenburg, C., G. Rees and T. St. John (1989) Isolation of mouse CD44 cDNA: Structural features are distinct from the primate cDNA. *Proc. Natl. Acad. Sci. USA*, 86: 8521-8525.
7. Nottenburg, C., W.M. Gallatin and T. St. John (1989) Lymphocyte HEV adhesion variants differ in the expression of multiple gene sequences. *Gene* 95: 279-284.
8. Pinchuk, G.V., C. Nottenburg, E.C.B. Milner (1995) Predominant V-region gene configurations in the human antibody response to *Hemophilus influenzae* capsular polysaccharide. *Scand. J. Immunol.* 41: 324-330
9. Glas, A.M., W.O. Hufnagle, I. Suzuki, L. Pfister, P.S. Rao, C. Nottenburg, E.C.B. Milner (1995) Anomalous diversification of the antibody repertoire following bone marrow transplantation. *Annals of the N.Y. Acad. Sci.* 764: 312-314.
10. Suzuki, I., E.C.B. Milner, A. Glas, W.O. Hufnagle, S. P. Rao, L. Pfister, C. Nottenburg (1996) Immunoglobulin heavy chain variable region gene usage in bone marrow transplant recipients: lack of somatic mutation indicates a maturational arrest. *Blood*, 87: 1873-1880.
11. Nottenburg, C., P.G. Pardey, and B.D. Wright. (2002) Accessing Other Peoples' Technology for Non-Profit Research. *Australian Journal of Agricultural and Resource Economics*, 48(3): 389-416.
12. Binenbaum, E., C. Nottenburg, P.G. Pardey, B.D. Wright, and P. Zambrano (2003) South-North Trade, Intellectual Property Jurisdictions, and Freedom to Operate in Agricultural Research on Staple Crops. *Economic Development & Cultural Change*, 51(2): 309-335.
13. Koo, B., C. Nottenburg and P.G. Pardey (2004) Plants and Intellectual Property: An International Appraisal. *Science*, 306:1295-1297.

*Book Chapters, Law Reviews, Invited Papers, Commentaries (selected)*

1. Nottenburg, C., P.G. Pardey, and B.D. Wright. (2001) Addressing Freedom to Operate Questions for International Agricultural Research and Development. Chapter 6 in P.G. Pardey ed. *The Future of Food: Biotechnology Markets and Policies in an International Setting*. Washington D.C.: International Food Policy Research Institute.
2. Delmer, D.P., C. Nottenburg, G.D. Graff, and A.B. Bennett. (2003) Intellectual Property Resources for International Development in Agriculture. *Plant Physiology*, 133: 1666-1670.
3. Pardey, P.G., B. Koo and C. Nottenburg. (2004) Creating, Protecting, and Using Crop Biotechnologies Worldwide in an Era of Intellectual Property. *Minnesota Journal of Law, Science & Technology*, 6(1): 213-252.
4. Nottenburg, C. and J. Sharples. (2004) "Analysis of 'Junk DNA' Patents." Cougar Patent Law and Cambia.
5. Nottenburg, C. (2007) "How to read a biotech patent." Chapter 4.2 in *Intellectual Property Management in Health and Agricultural Innovation: a handbook of best practices*. A Krattiger et al., eds. MIHR and PIPRA.
6. Wright, B.D., P.G. Pardey, C. Nottenburg, and B. Koo. (2007) Agricultural Innovation: Investments and Incentives. Chapter 48 in R.E. Evenson, P. Pingali, ed. *Handbook of Agricultural Economics*, vol. 3. Amsterdam: Elsevier. pp. 2533-2603.
7. Nottenburg, C. and Roa-Rodríguez (2008) "Agrobacterium-mediated transformation of plants: A lawyer's perspective." Chapter 20 in T. Tzfira, ed. *Agrobacterium*. Wiley Sciences.
8. Nottenburg, C. (2008) "Patenting the 'Climate Genes' ... and Capturing the Climate Agenda: A Critique of a Communiqué by ETC Group". Cougar Patent Law for Harvest Choice ([www.harvestchoice.org](http://www.harvestchoice.org)).
9. Nottenburg, C. (2009) "The Enola Bean Controversy". Cougar Patent Law for Harvest Choice ([www.harvestchoice.org](http://www.harvestchoice.org)).
10. Nottenburg, C. (2010) "Wanted Pumpkin Patent Application: Third-Party Objections Prior to Award of Patent." Cougar Patent Law for Harvest Choice ([www.harvestchoice.org](http://www.harvestchoice.org)).

*Patent / Technology Landscapes (originally published on www.patentlens.net)*

1. Roa-Rodríguez, C. and C. Nottenburg. (2002) "Antibiotic resistance genes and their uses in genetic transformation, especially in plants." Cambia
2. Roa-Rodríguez, C. and C. Nottenburg. (2003) "Agrobacterium-mediated transformation of plants." Ver. 3, July 2003. Cambia.
3. Mayer, J., J. Sharples, and C. Nottenburg. (2003) "Resistance to Phosphinothricin."
4. Nottenburg, C. (2007) "Human Telomerase Gene" Cougar Patent Law for Cambia.
5. Fluhr, K., K. Mills, R. Jefferson, N. Bacon, W. Yang, M. Connett-Porceddu and C. Nottenburg (2008) "The Rice Genome", Cambia and Cougar Patent Law.
6. Nottenburg, C., K. Fluhr, R. Jefferson, W. Yang, K. Mills, N. Bacon, N. dos Remedios (2008) "Influenza Genome", Cambia and Cougar Patent Law.
7. Nottenburg, C. (2008) "Adjuvants", Cougar Patent Law for Cambia.