
BIOGRAPHICAL SKETCH

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|-------------------------------------|----------------------------------|--|---------------------|
| NAME John Timothy Wright | | POSITION TITLE Professor and Chair, Pediatric Dentistry | |
| EDUCATION/TRAINING | | | |
| INSTITUTION AND LOCATION | DEGREE <i>(if applicable)</i> | YEAR(s) | FIELD OF STUDY |
| West Virginia University | - | | Chemistry |
| West Virginia University | DDS | 1978 | Dentistry |
| University of Alabama at Birmingham | MS | 1983 | Pediatric Dentistry |

A. Positions and Honors.**Positions and Employment**

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|----------------|--|
| 1978-1980 | Director Cabell-Huntington Health Department, Children's Dental Clinic. |
| 1979-1980 | Clinical Instructor, West Virginia University School of Dentistry. |
| 1981-1984 | Research Fellow, Institute of Dental Research, Un. of Alabama School of Dentistry. |
| 1983-1984 | Clinical Instructor, University of Alabama School of Dentistry |
| 1984-1990 | Associate Professor, Director Postdoctoral Pediatric Dentistry Programs, Preceptor Medical Genetics Postgraduate Program, Univ. of Alabama School of Dentistry |
| 1990-1991 | Visiting Professor, Dept. Oral Biology, Leeds Univ., School of Dentistry, England. |
| 1990-1995 | Associate Professor, Department of Pediatric Dentistry, School of Dentistry, UNC |
| 1995-(present) | Professor, Department of Pediatric Dentistry, School of Dentistry, UNC |
| 2004-(present) | Chair, Department of Pediatric Dentistry, School of Dentistry, UNC |

Honors

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|-------------|--|
| 1983 | American Fund for Dental Health, Teacher Training Fellowship. |
| 1984 | Graduate Pedodontic Student Research Award, American Academy of Pedodontics. |
| 1990 | American Fund for Dental Health Faculty Development Fellowship |
| 1993 & 1995 | Academy of Pediatric Dentistry Educational Foundation Research Award |
| 1995 | Fellow American College of Dentistry |
| 2001 | UNC Class of 1958 Excellence in Clinical Research Award |
| 2001 | National Ectodermal Dysplasia Foundation Research Award |
| 2002 | William J Gies Award – American Association for Dental Research |

B. Selected peer-reviewed publications (in chronological order from over 110).

- Collins, MA, Mauriello, SM., Tyndall, DA., **Wright, JT.** Dental Anomalies in Amelogenesis Imperfecta: A Radiographic Assessment. Oral Surg, Oral Med, Oral Pathol 88:358-364, 1999.
- Price, JA, **Wright, JT,** Crawford, PC, Aldred, MJ, Hart, TC. Tricho-dento-osseous syndrome and Amelogenesis Imperfecta with Taurodontism are Genetically Distinct Conditions. Clin Genet 56:35-40, 1999.
- Cartwright, AR, Kula, K, **Wright, JT.** Craniofacial Features Associated with Amelogenesis Imperfecta. Craniofac Genet Develop Biol 19:148-156, 1999.
- Hart, S, Hart, T ,Gibson, C, **Wright, JT.** Mutational Analysis of X-linked Amelogenesis Imperfecta in Multiple Families. Archs Oral Biol 45:79-86, 2000
- Hart, TC, Marrazita, M, **Wright, JT.** Molecular genetics and the Paradigm Shift in Oral Health Care. Critical Rev Oral Biol 11:26-56, 2000.
- Hart, PS, Vlaservich, AC, Hart, TC, **Wright, JT.** Polymorphism in Amelogenin. Human Mutation 15:298, 2000.

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7. Hu, CC, Hart, T, Dupont, B, Chen, JJ, Jiang, H, Sun, X, Qian, Q, Zhang, CH, **Wright, JT**, Simmer, JP. Cloning Human Enamelin cDNA, Chromosomal Localization and Analysis of Expression During Tooth Development. *Journal of Dental Research* 79:912-919, 2000.
8. Kirkham, J, Robinson, C, Strafford, SM, Shore, RC, Bonass, WA, Brookes, SJ, **Wright, JT** The Chemical Composition of Tooth Enamel in Junctional Epidermolysis Bullosa. *Archives of Oral Biology* 45:377-386, 2000.
9. **Wright, JT**, Price, JA, Bowden, D, Kula, K, Dawson, D, Hart TC. Phenotypic Variability of the Tricho-Dento-Osseous Syndrome Associated with a DLX3 Homeobox Gene Mutation. In: Chemistry and Biology of Mineralized Tissues, Proceedings 6th International Conference, Eds Goldberg, M., Boskey, A., Robinson, C., pp. 27-31, 2000.
10. Ravassipour, DB, Hart, S, Hart, TC, Ritter, AV, Yamauchi, RM, Gibson, C, **Wright, JT**. The Genotype and Phenotype of Amelogenesis Imperfecta Associated with a Specific Point Mutation. *Journal of Dental Research* 2000 (In Press)
11. **Wright, JT**. Normal Formation and Developmental Defects of the Human Dentition. *Pediatric Clinics of North American*. W.B. Saunders, Philadelphia, 47:975-1000, 2000.
12. Thyagarajan, T., Sreenath, T., Cho, A., **Wright, J.T.**, Kulkarni, A.B. Reduced Expression of Dentin Sialoposphoprotein is Associated with Dysplastic Dentin in Mice Overexpressing TGF- β 1 in Teeth. *Journal Biological Chemistry* 276:11016-11020, 2001.
13. Pallos, D, Hart, PS, Cortelli, JR, Vain, S, **Wright, JT**, Korkko, J, Hart, TC. Novel COL1A1 mutation (G599C) Associated With Mild Osteogenesis Imperfecta and Dentinogenesis Imperfecta. *Archives of Oral Biology* 46:459-470, 2001.
14. Greene, SR, Yuan, ZA, **Wright, JT**, Amjad, H, Abrams, WR, Buchanan, JA, Gibson, CW. A Gene Deletion Resulting in Amelogenin with Nine Cysteine Residues Leads to Amelogenesis Imperfecta. *Archives of Oral Biology* 47: 211-217, 2002.
15. Hart PS, Aldred, MJ, Crawford, PJM, Wright, NJ, Hart, TC, **Wright, JT**. Two Amelogenin Gene Mutations Cause Different Amelogenesis Imperfecta Phenotypes. *Archives of Oral Biology* 47:261-265, 2002.
16. Hart, PS, Hart, TC, Simmer, JP, **Wright, JT**. Establishment of a Nomenclature for X-linked Amelogenesis imperfecta *Archives of Oral Biology* 47:255-260, 2002.
22. Dodds, AP, Cox SA, Ruiz R, Hart TC, **Wright JT** Expression of Transcription and Growth Factors in an Odontogenic Tumor. *Histopathol.* 18:849-854, 2003.
23. Sreenath T, Thyagarajan T, Hall B, Longenecker G, D'Souza R, Sung H, **Wright JT**, MacDougall M, Sauk J, Kulkarni AB. Dentin sialoposphoprotein knockout mouse teeth display widened pre-dentin zone and develop defective dentin mineralization similar to human dentinogenesis imperfecta type-III. *J Biol Chem.* 278:24874-24880, 2003.
24. Hart PS, Michalec MD, Seow WK, Hart TC, **Wright JT**. Identification of the enamel (g.8344delG) mutation in a new kindred and presentation of a standardized ENAM nomenclature. *Archs Oral Biol.* 48:589-596, 2003.
25. Hart PS, **Wright JT**, Savage M, Kang G, Bense JT, Gorry MC, Hart TC. Exclusion of candidate genes in two families with autosomal dominant hypocalcified amelogenesis imperfecta. *Europ J Oral Sciences.* 111:326-331, 2003.
26. Hatakeyama J, Sreenath T, Hatakeyama Y, Thyagarajan T, Shum L, Gibson CW, **Wright JT**, Kulkarni AB. The receptor activator of nuclear factor-kappa B ligand-mediated osteoclastogenic pathway is elevated in amelogenin-null mice. *J Biol Chem.* 278:35743-8, 2003.
27. Dodds AP, Cannon, RE, Suggs C, **Wright JT**. Gene expression in odontogenic tumors in V-Ha-ras mice. *Archs Oral Biol.* 48:843-850, 2003.
28. Kim J-W, Simmer JP, Hu YY, Lin BP-L, Yamada CJM, **Wright JT**, Boyd C, Rayes SK, Feigal RJ, Hu JC-C. Amelogenin p.MIT and p.W4S mutations underlying hypoplastic X-linked amelogenesis imperfecta. *J Dent Res* 83:378-383, 2004.
29. Chen E, Yuan Z-A, **Wright JT**, Hong SP, Li Y, Collier PM, Hall B, D'Angelo M, Decker S, Piddington R, Abrams WR, Kulkarni AB, Gibson CW. The small bovine amelogenin LRAP fails to rescue the amelogenin null phenotype. *Calcif Tis Int.* 73:487-495, 2003.
30. Hart, PS, Hart TC, Michalec MD, Ryu OH, Simmons D, Hong S, **Wright JT**. Mutation in Kallikrein 4 Causes Autosomal Recessive Hypomaturation Amelogenesis Imperfecta. *J Med Genet.* 41:545-549, 2004.
31. Haldeman RJ, Cooper LA, Hart TC, Phillips C, Boyd C, **Wright JT**, Lester G. Increased bone density associated with *DLX3* mutation in the tricho-dento-osseous syndrome. *Bone* 35:988-997, 2004.
32. Ravassipour DB, Powell C, Phillips C, Hart S, Hart TC, **Wright JT**. Association of amelogenesis imperfecta with dental and skeletal open bite malocclusion. *Archs Oral Biol* 50:611-623, 2005.
33. Coffield KD, Phillips C, Brady M, Roberts MW, Strauss RP, **Wright, JT**. The psychosocial impact of developmental dental defects in hereditary amelogenesis imperfecta. *J Am Dent Assoc* 2005;136:620-630.
34. **Wright JT**, Daly B, Simmons D, Hong S, Hart SP, Hart T, Yamauchi M. Human enamel phenotype associated with a KLK4 (g2142G>A) mutation. *Europ J Oral Sci* (2005 in press)

C. Research Support (Current)

RO1 DE015196 WRIGHT (PI)
NIH/NIDCR

01/01/04-12/31/07

Wright, John T

Modifying Gene Determinants of Tooth and Bone Phenotypes

This research is directed at identifying the molecular basis for variation in bone and tooth phenotypes in family members having the tricho-dento-osseous syndrome.

Role: PI 20% Commitment

RO1 DEO12879 WRIGHT (PI) 01/30/00-2/01/06

NIH/NIDCR

The Genotype and Phenotype of Amelogenesis Imperfecta

This research is directed at identifying the molecular basis for the human hereditary conditions known as amelogenesis imperfecta and to characterize the associated phenotype. Role: PI 15% Commitment

1 RO1 DEO11089 Carolyn Gibson (PI) 07/01/02-06/30/07

NIH/NIDCR

Enamel Mineral Formation During Murine Odontogenesis

This research is directed at understanding the role of amelogenin and its alternatively spliced products in amelogenesis using transgenic mice as a model

Role: Co Investigator: J.T. Wright, 10%.Commitment

1 RO1 DEO Jan Hu (PI) 07/01/04-06/30/08

NIH/NIDCR

Enamel without Enamelin

This study will characterize the enamel phenotype in a transgenic mouse that has disruption of the ENAM gene.

Role: Co Investigator: J.T. Wright, 5%.Commitment

INACTIVE (PAST THREE YEARS)

NFED 7/01/01-06/30/02

The National Foundation of Ectodermal Dysplasias

Expression of DLX7 in Developing Skin, Bone and Teeth

Goal was to characterize the role of the DLX7 transcription factor in the formation of skin, bone and teeth.

Role: PI 10% Commitment

PENDING

1-RO1 DE016079 Wright (PI) 7/1/05-6/30/10

NIH/NIDCR

Phenotype and Gene Expression In Odontogenic Tumors

This study will characterize the molecular pathways and mechanisms responsible for defining the diverse phenotypes of odontogenic tumors in humans

Role: PI 15% Commitment.

RO1 DEO12879 WRIGHT (PI) 7/1/05-6/30/10

NIH/NIDCR

The Genotype and Phenotype of Amelogenesis Imperfecta

This research is directed at identifying the molecular basis for the human hereditary conditions known as amelogenesis imperfecta and to characterize the associated phenotype.

Role: PI 15% Commitment