

CURRICULUM VITAE

CARLYNE D. COOL

I. Present Position Rank:

Associate Clinical Professor,
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Citizenship:

United States

II. Educational History

1983	B.S.	North Dakota State University, Department of Engineering, Fargo, ND, Civil Engineering with honors
1992	M.D.	University of Colorado Health Sciences Center, School of Medicine, Denver, CO, with honors
1992 - 1997		University of Colorado Health Sciences Center, Department of Pathology, Denver, CO, Internship/Residency
1996 - 1997		University of Colorado Health Sciences Center, Department of Pathology, Denver, CO, Chief Resident

1998 Diplomate of the American Board of Pathology, certified in
combined Anatomic and Clinical Pathology

III. Professional Positions

1984 - 1988 Department of Highways and Transportation, Jefferson County, Colorado,
Civil Engineer

1995 - 1996 Mile High Transplant Service, Aurora, Colorado, *Autopsy Pathologist*

1995 - 1997 University of Colorado Health Sciences Center, Department of Pathology,
Denver, Colorado, *Fellow in Pulmonary Research*. Advisor: Rubin Tuder,
M.D.

1997 - 1998 University of Colorado Health Sciences Center, Department of Pathology,
Denver, Colorado, *Instructor*

1998 - 2004 University of Colorado Health Sciences Center, Department of Pathology,
Denver, Colorado, *Assistant Professor*

- General surgical pathology
- Pulmonary pathology
- Pulmonary research

1998 - 2004 National Jewish Medical and Research Center, Department of Medicine,
Denver, Colorado, *Assistant Professor*

- Surgical pathology
- Medical director of the clinical laboratories

2004-present Associate Professor, UCHSC and NJMRC

IV. Honors and Awards

1979 Alpha Lambda Delta (Scholastic Honor Society)

1981 - Present Tau Beta Pi (Engineering Honor Society)

1992 Mosby Award in Pediatrics

1997 Robert H. Fennell Award for Excellence in Pathology Residency

1997 Paul E. Strandjord Young Investigator Award

1997 - 1998 Medical Student Council Teaching Awards Committee "Excellence in
Teaching" Award

2001-2002 Excellence as Unit Director (Alternate Track Pathology Course)

2001-2002 Excellence as Mentor and Instructor in Seminar Teaching (Pathology 6000)

V. Professional Affiliations

1993	College of American Pathologists
1993 - Present	Colorado Society of Clinical Pathologists
1996	American Society of Clinical Pathologists
1998 - Present	Academy of Clinical Laboratory Physicians and Scientists, Associate Member

VI. Professional Service and Committees

Institutional and National Committees

1998 - Present	National Jewish Medical and Research Center - Diagnostic and Therapeutic Services Committee,
1998 – Present	University of Colorado Health Sciences Center Department of Pathology – Facilities Committee
1998 – Present	University of Colorado Health Sciences Center Department of Pathology – Surgical Pathology Quality Improvement Committee
2002 – 2004	UCHSC School of Medicine Faculty Senate
2001	National Workshop on Nonspecific Interstitial Pneumonia
2004	National Workshop on Pediatric Interstitial Lung Disease
2005 – present	Lung Tissue Research Consortium

VII. Patents

None

VIII. Review and Referee Activities

Archives of Pathology & Laboratory Medicine

International Journal of Tuberculosis and Lung Disease

Blood Coagulation & Fibrinolysis

American Journal of Respiratory and Critical Care Medicine

IX. Teaching Activities

Course Director

- 1993 University of Colorado Child Health Associate Program, Endocrine Lectures
- 1996 - 1997 Wardenburg Student Health Center In-Service Lectures, Course Coordinator, Boulder, Colorado
- 2001- present Pathobiology of Cancer Workshop, AACR Keystone Workshop, Pulmonary Pathology Course Director
- 2000 – 2007 Alternate Track Pathology Course Unit Director

Graduate and Medical School Lectures

- 1992 - Present University of Colorado Medical Students, Sophomore Pathology Laboratory Instructor
- 1995 - Present University of Colorado Alternative Pathology Course, Pulmonary Pathology Seminars
- 1996 - Present University of Colorado Dental Students, Respiratory Pathology Lectures
- 1999 - Present University of Colorado Medical Students, Respiratory Pathology Lectures
- 1999 - 2002 University of Colorado Child Health Associate Program, Respiratory Pathology Lectures
- 2001 – Present Pulmonary Fellows' Core Lecture Series – pulmonary pathology

Other

- 2000 Math Science Initiative Instructor
- 2001 GEMS summer student, Elba Lopez
Based on her work during the summer internship, Ms. Lopez was awarded full financial aid to attend 2001 SACNAS (Society for Advancement of Chicanos and Native Americans in Science) conference to present her data.
- 2002 GEMS summer student, Marcos Unis
Mr. Unis completed a project involving co-culture of endothelial and smooth muscle cells in a chronic flow system. He was awarded second place in the GEMS competition.

X. Research Grants

Current Research Grant Support

RFP No. NHLBI-HR-04-09

Lung Tissue Research Consortium: Tissue Processing and Distribution Center

P.I., 30% effort

Total Award Period : 1/30/04-1/29/09

Total Award Budget: \$2,332,092

The goal of this proposal is to collect non-neoplastic lung disease tissue from five clinical centers, process the tissue, and then distribute it to investigators.

RFP No. NHLBI-HR-04-08

Lung Tissue Research Consortium: Clinical Center

Co-P.I., 10% effort

P.I. Marvin Schwarz

Total Award Period: 1/30/04-1/29/09

This proposal encompasses both the collection of emphysema and idiopathic pulmonary fibrosis lung tissue from patients and the use of the LTRC lung tissue for related research. Our project evaluates the role of VEGF in the maintenance of the adult lung in COPD/Emphysema and in idiopathic pulmonary fibrosis. We hypothesize that there is a VEGF-dependent impairment of angiogenesis.

XI. Clinical/Service Activities

Conferences

Coordinate and oversee monthly pulmonary pathology/radiology/clinical conference

Present at monthly pediatric pulmonary pathology/radiology

Pulmonary Pathology Society:

Pulmonary Hypertension Session moderator - 2003

XII. Bibliography

1. Cool CD and Wilson ML. Resistance of enterococci to antimicrobial agents. American Society of Clinical Pathologists Check Sample 37:91-108, 1994.

2. Cool CD and Wilson ML. *Mycobacterium genavense*. American Society of Clinical Pathologists Check Sample 38:1-9, 1995.
3. Cool CD and Bitter MA. The malignant lymphomas of Kenya: Morphology, immunophenotype and frequency of EBV in 73 cases. Hum Path 28:1026-1033, 1997.
4. Cool CD, Kennedy D, Voelkel NF and Tuder RM. Pathogenesis and evolution of plexiform lesions in pulmonary hypertension associated with scleroderma and HIV infection. Hum Path 28:434-442, 1997.
5. Wright L, Tuder RM, Wang J, Cool CD, Lepley RA and Voelkel NF. 5-lipoxygenase and 5-lipoxygenase activating protein (FLAP) immunoreactivity in lungs from patients with primary pulmonary hypertension. Am J Respir Crit Care Med 157:219-229, 1998.
6. Lee S-D, Shroyer KR, Markham NE, Cool CD, Voelkel NF and Tuder RM. Monoclonal endothelial cell proliferation is present in primary but not secondary pulmonary hypertension. J Clin Invest 101:927-934, 1998.
7. Tuder RM, Lee S-D and Cool CD. Histopathology of pulmonary hypertension. Chest 114 (1 Suppl):1S-5S, 1998.
8. Voelkel NF, Cool CD, Lee S-D, Wright L, Geraci MW and Tuder RM. Primary pulmonary hypertension between inflammation and cancer. Chest 114 (3 Suppl):225S-230S, 1998.
9. Cohen AJ, Cool C, Gorg S, Gilman LB, Tuder RM, Miller YE and Voelkel NF. Low or absent peptidase expression in plexiform lesions of primary pulmonary hypertension. Chest 114 (1 Suppl):30S-31S, 1998.
10. Tuder RM, Cool C, Jennings C and Voelkel NF. Pulmonary vascular involvement in interstitial lung disease (ILD). In: Interstitial Lung Disease, 3rd Edition. MI Schwarz, T King, Jr. (eds). BC Decker, Inc., Ontario, pp 251-263, 1998.
11. Cool CD, Stewart JS, Werahera P, Miller GJ, Williams RL, Voelkel NF and Tuder RM. Three-dimensional reconstruction of pulmonary arteries in plexiform pulmonary hypertension using cell-specific markers. Evidence for a dynamic and heterogeneous process of pulmonary endothelial cell growth. Am J Pathol 155:411-419, 1999.
12. Tuder RM, Cool CD, Geraci, MW, Wang J, Abman SH, Wright L, Badesch D and Voelkel NF. Prostacyclin synthase expression is decreased in lungs from patients with severe pulmonary hypertension. Am J Respir Crit Care Med 159:1925-1932, 1999.
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15. Tudor RM, Cool CD. Pathologic evaluation of interstitial lung disease. In: *Imaging of Diffuse Lung Disease*. DA Lynch, JD Newell, Jr., JS Lee. (eds.) BC Decker, Inc. Hamilton, London, pp 21-33, 2000.
16. Kasahara Y, Tudor RM, Cool CD, Voelkel NF. Expression of 15-lipoxygenase and evidence for apoptosis in the lungs from patients with COPD. *Chest*. 2000. 117:260S.
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61. Covar RA, Cool C, Szeffler SJ. Progression of asthma in childhood. 2005. *Journal of Allergy & Clinical Immunology*. 115(4):700-7.
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