# Kenneth H. Quesenberry

**Rank:** Professor

**Specialization:** Forage Breeding, Genetics, Tissue Culture and Transformation

**Location:** Gainesville

**Educational Background:**

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| B.S. 1969 | Agriculture | Western Kentucky University |
| Ph.D. 1975 | Crop Science | University of Kentucky |

**Employment:**

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| 1975-81 | Assistant Professor | Agronomy Department | University of Florida |
| 1981-86 | Associate Professor | Agronomy Department | University of Florida |
| 1986-present | Professor | Agronomy Department | University of Florida |

**Current FTE:** 70% Research / 30% Teaching

**Teaching:**

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| **Courses:** | PLS 2003C Plants That Feed the World | Every spring |
| | AGR 4321C Plant Breeding | Every fall |
| | AGR 6325L Plant Breeding Techniques | Spring odd years |
| | AGR 6353C Cytogenetics | Fall odd years |

**Graduate activities:** Member, Graduate Admissions Committee

**Graduate Students: Current (Total)**
Ph.D.: 2 (16); M.S.: 1(14); Committee Member: 6 (54); Postdoc/Visiting Scientist: 0 (2)

**Research:**
Research focuses on three areas of forage improvement: (1) recurrent selection for genetic enhancement of Southern U.S. clovers (*Trifolium pratense, T. incarnatum,* and other clovers), emphasizing nematode and disease resistance, non-dormancy, and early vigor; (2) germplasm evaluation and enhancement of tropical forages in the genera *Arachis*, *Desmodium,* and *Paspalum* with emphasis on cold and water stress tolerance, N2-fixation, nematode and disease resistance, and photoperiod response; (3) development of biotechnology applications for forage improvement including development of in vitro methods in *Arachis*, *Adesmia*, *Desmodium*, *Paspalum,* and *Trifolium*.

**International Activities:**
Attended and participated in XV, XVI, XVII, XVIII, XIX International Grasslands Congresses, Kyoto, Japan; Nice, France; Palmerston, New Zealand and Rockhampton,

Australia; and Winnipeg, Manitoba and Saskatoon, Saskatchewan; Sao Pedro, Sao Paulo, Brazil; Dublin, Ireland and Aberystwyth, Wales; 1985, 1989, 1993, 1997, 2001, 2005, respectively. These Congresses are the major international meetings for forage and grassland scientists. Participated in two Trifolium and other forage legume germplasm collection expeditions to Bulgaria (1990 and 1993), resulting in the collection of over 160 new accessions of over 60 different Trifolium species, three trips to California, Oregon and Washington in 1994 and 1995 resulting in collection of over 125 new assessions of about 45 Trifolium species, and a trip to California an 2006 to collect Trifolium species and associated Rhizobium strains resulting in collection of over 50 seed accessions and Rhizobium strains.

**Grants/Contracts/Gifts (last 5 years):** $350,000

**Service to Professional Societies:**

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| 1986-87 | Chair, Soil and Crop Science Society of Florida |
| 1993-94 | Chair, Crop Science Div. C-8 |
| 1997-98 | Associate Editor, Crop Science |
| 2002-05 | Chair, Clover Crop Germplasm Committee |
| 2005-07 | Board Representative, C55A Div C-8 |

**Honors/Awards:**

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| 1975-76 | Professor of the Year, College of Agriculture |
| 1985-86 | Junior Faculty Member Award of Merit, Gamma Sigma Delta |
| 1990 | Merit Certificate, American Forage and Grasslands Council |
| 1996 | Professorial Excellence Award, University of Florida |
| 2001 | Salary Adjustment Award |

**Professional Improvement:**

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| 1987 | U.S. Dairy Forage Research Center, Univ. of Wisconsin, Madison, WI |
| 1994 | U.S. National Forage Seed Production Center, Oregon State Univ., Corvallis, OR |

**Selected Publications: Career Summary-** Books: 1; Books editor: 2; Book Chapters: 9; Refereed Articles: 81; Non-refereed Articles: 101; Patents/PVPs: 1.

Sullivan, M.L., Quesenberry, K.H. 2006. Red Clover (Trifolium pratense). In: Wang, K. Methods in Molecular Biology, vol. 343: Agrobacterium Protocols. 2nd edition. Totowa, NJ: Humana Press. p369-384.

Quesenberry, K.H., A.R. Blount, L.S. Dunavin, and P. Mislevy. 2005 Registration of 'Southern Belle' red clover. Crop Sci. 45:2123-2124.

Carvalho, M.A., K. H. Quesenberry, and M. Gallo-Meagher. 2005. Molecular characterization and tissue culture regeneration ability of the USA Arachis pintoi (Krapov. and W.C. Greg.) germplasm collection. p. 263. In M.O. Humphreys (ed.) Molecular breeding for the genetic improvement of forage crops and turf. Aberystwyth, Wales. 3-7 July 2005. Wageningen Academic Publishers, The Netherlands.

Real, D. M.D. Rizza, K.H. Quesenberry and M Echenique. 2004. Reproductive and molecular evidence for allogamy in Lotononis bainesii Baker. Crop Sci. 44:394-400.

Quesenberry, K. H., and M.D. Casler. 2001. Achievements and perspectives in the breeding of temperate grasses and legumes. p. 517-524. *In* J.A. Gomide, W.R.S. Mattos, and S.C. da Silva (ed.) Proc. Int. Grasslands Congress, XIX, Sao Pedro, Sao Paulo, Brazil. 11-21 Feb. 2001. FEALQ, Piricicaba, Sao Paulo, Brazil

Call, N.M., K.H. Quesenberry, D.S. Wofford and R.A. Dunn. 1997. Combining ability analysis of resistance to southern root-knot nematode in red clover. Crop Sci. 37:121-124.

Taylor, N.L. and K.H. Quesenberry. 1996. Red Clover Science. Kluwer Academic Publishers. Dordrecht, Netherlands.

Quesenberry, K.H., D.S. Wofford, R.L. Smith, P.A. Krottje and F. Tcacenco. 1996. Production of red clover transgenic for NPTII using agrobacterium. Crop Sci. 36:1045-1048.