

# Medical and Human Genetics in Missouri

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## State Profile

**Population:** 5,842,713 (est 2006)\*

**Area:** 68,886 square miles

**Population Density:** 81.2 persons per sq mile (2000)

**Largest Cities:** Kansas City, 444,965\*\*,

St. Louis: 344,362 \*\*, Springfield, 150,867\*

\*U.S. Census Bureau, USA Quick Facts, Missouri Quick Facts.

<http://quickfacts.census.gov/qfd/states/29000.html>

\*\* Missouri Department of Health and Senior Services, 2005 data.

## Personnel

- ✧ State Health Department (30)
- ✧ Clinical Geneticists (13)
- ✧ Genetic Counselors (20)
- ✧ Maternal Fetal Medicine (18)

## Facilities and Institutions

### Columbia

University Hospitals and Clinics

### Kansas City

Children's Mercy Hospital

University of Missouri – Kansas School of Medicine

### St. Louis

Saint Louis University

Washington University

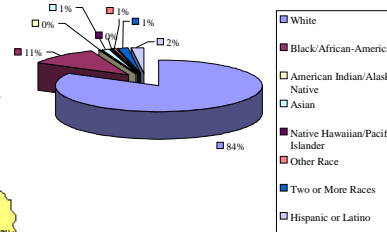
## Satellite Clinic Sites

Cape Girardeau  
Joplin  
Kirksville  
Springfield  
West Plains  
Poplar Bluff  
Versailles

## MISSOURI



## Racial and Ethnic Distribution



## Training

- ◆ Washington University has an ABMG approved Clinical Genetics Residency training program.
- ◆ University of Missouri – Columbia and Kansas City has a combined Medical Genetics fellowship program accredited by ACME and ABMG.
  - ◆ Columbia – biochemical genetics and clinical genetics
  - ◆ Kansas City – cytogenetics and molecular genetics

## Advisory Committees

### Missouri Genetic Advisory Committee

- ◆ 15 members
- ◆ Multiple stakeholders
- ◆ 5 working subcommittees
  - ◆ Newborn Screening Standing Committee
  - ◆ Sickle Cell Anemia Standing Committee
  - ◆ Cystic Fibrosis Standing Committee
  - ◆ Hemophilia Standing Committee
  - ◆ Newborn Hearing Screening Standing Committee

## Special Features

### Strengths

- Large catchment area for a wide variety of genetic diseases for investigation.

### Washington University

- Human Genome Sequencing Center participating in the Human Genome Project.
- One of the top research institutions in the United States.

### Legislative Updates

- Genetic and Metabolic Screening Programs- HCS HB 948  
Bill changes laws regarding newborn screenings, blood spot retention, and Metabolic Formula Distribution Program

## Newborn Screening

- ▶ 1965 Phenylketonuria
- ▶ 1979 Congenital hypothyroidism
- ▶ 1985 Galactosemia
- ▶ 1989 Sickle cell anemia and other hemoglobinopathies
- ▶ 2002 Congenital adrenal hyperplasia
- ▶ 2002 Newborn hearing screening
- ▶ 2005 MS/MS detectable conditions
- ▶ 2007 Cystic Fibrosis

## Planned

- ▶ 2008 Biotinidase

## References

Missouri State Genetics Plan available at:  
<http://genes-r-us.uthscsa.edu>