

# Medical and Human Genetics in Missouri

*Julie Raburn-Miller, Sharmini V. Rogers, and Patrick Hopkins*  
*Department of Health and Senior Services; Jefferson City, MO*



## State Profile

**Population:** 5,911,605 (est. 2008)

**Area:** 68,886 square miles

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

**Largest Cities:** Kansas City: 447,306,

St. Louis: 347,181, Springfield: 150,797

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

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

## Personnel

- ✧ State Health Department (26)
- ✧ Clinical Geneticists (13)
- ✧ Genetic Counselors (18.3)
- ✧ Maternal Fetal Medicine (45)

## Facilities and Institutions

### Columbia

University Hospitals and Clinics

### Kansas City

Children's Mercy Hospital  
University of Missouri – Kansas City School of Medicine

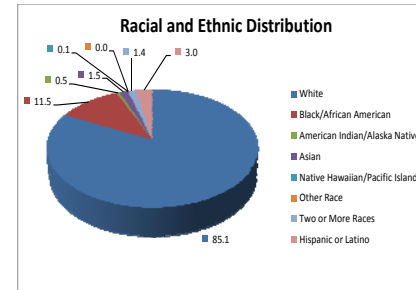
### St. Louis

Saint Louis University  
Washington University

## Satellite Clinic Sites

Kirksville  
Mountain View  
Springfield  
Versailles  
West Plains

### MISSOURI



## 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.

## 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

## 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
- ▶ 2008 Biotinidase Deficiency

## Planned

- ▶ To implement legislation passed in 2009 to screen for Krabbe disease, Pompe disease, Gaucher disease, Neimann-Pick disease and Fabry disease beginning July 1, 2012.

## References

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