

## Anna Schwabe, PhD

Cannabis Expert | Applied Scientist | Geneticist | Researcher | Educator

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### Professional Summary

Dynamic and results-oriented cannabis scientist with extensive expertise in genetics, molecular biology, and scientific communication. Accomplished in cultivation management, research and development, course design, and laboratory management, with a proven track record of securing significant grants and driving educational advancements. Known for innovative problem-solving and effective leadership in both educational and industrial settings.

### Professional Experience

#### 420 Organics

Director of Education and R&D (April 2021 - Present)

- Conducted R&D on several industrial hemp projects and secured a \$250k grant from NJ in collaboration with Stockton and Rutgers Universities.
- Developed over 30 courses for cannabis education and training on Graphy and Learnworlds platforms.
- Authored education manuals, SOPs, and SOP manuals for an organic aquaponic hemp farm and a recreational cannabis micro cultivator.
- Organized scheduling and assisted the farm manager in overseeing 11,000 plants across five greenhouses.
- Performed planting, watering, nutrient applications, monitoring, pest/pathogen detection and identification, and harvesting.
- Created unique marketing materials integrating art, music, and organoleptic elements.

#### University of Colorado, Boulder, CO

Associate Lecturer Professor (July 2020 - Present)

- Co-developed and instructed the Modern Cannabis Science course, successfully educating cannacurious individuals and enthusiasts for 15 semesters on cannabis history and recent scientific findings.
- Improved student engagement and comprehension through innovative teaching methods.
- Enhanced online education delivery methods, resulting in a 30% increase in course enrollment.

### University of Northern Colorado, Greeley, CO

Adjunct Lecturer Professor (August 2020 - Present)

- Designed and taught introductory genetics courses, integrating practical lab components to enhance student learning.
- Managed and coordinated laboratory activities, ensuring compliance with safety and academic standards.

### Mile High Labs, Broomfield, CO

Research Coordinator (July 2019 - January 2020)

- Initiated and managed collaborative research projects with universities in the U.S. and U.K., enhancing the company's scientific credibility.
- Developed training programs for new employees, improving sales efficiency.

### Denver Botanic Gardens, Denver, CO

Research & Conservation Genetic Lab Manager (November 2012 - January 2015)

- Designed and implemented genetic projects for rare species, increasing genetic diversity awareness and conservation efforts.
- Trained and supervised laboratory assistants and volunteers, fostering a collaborative research environment.

## Education

### University of Northern Colorado, Greeley, CO

PhD in Biological Sciences & Biological Education (August 2015 - May 2020)

Dissertation: 'A multifaceted approach to investigate genetic aspects in *Cannabis sativa*'

### University of Northern Colorado, Greeley, CO

MS in Biological Sciences (August 2010 - December 2012)

Thesis: 'Population genetics determining hybridization levels and directionality of gene flow between *Sclerocactus glaucus* and *S. parviflorus* using nuclear and chloroplast DNA analysis.'

### University of Northern Colorado, Greeley, CO

BS in Cellular and Molecular Biology (May 2007 - December 2009)

### Colorado State University, Ft. Collins, CO

Animal Anatomy and Physiology (August 1992 - May 1997)

## Skills

- Scientific project design
- Genetics and molecular biology
- Laboratory and personnel management
- Scientific communication

- Education and training
- Organization and time management
- Botanical illustration

### **Awards**

Graduate Dean's Citation of Excellence & Outstanding Dissertation, University of Northern Colorado

### **Competencies**

- Peer-reviewed publications
- Conference presenter
- Invited speaker
- Research grant writer
- Media coverage in Forbes, Nature, Bloomberg, and Wired Magazine

### **Additional Experience**

#### **Agricultural Genomics Foundation**

Course Developer and Co-Instructor (April 2021 - Present)

Co-developed and co-teach Modern Cannabis Science.

Currently developing Basic Cannabis Science and Advanced Cannabis Science courses.

#### **Scientific Committees**

MJ Unpacked

MJBiz Emerald Conference

#### **Social Media**

Co-host of The Dank Hour (Future Cannabis Project), 2021 – Present

#### **Publications**

Five first-author peer-reviewed publications related to cannabis research.