

LISA GANORA

LnGanora@gmail.com

Elderberry's Farm
Paonia, Colorado

EDUCATION

BA University of North Carolina, Asheville 1997-2001
Biology with studies in botany & chemistry. *Summa cum laude*, with *Distinction as a University Scholar*, & *Distinction in Biology*. Coursework includes general botany, plant identification, analytical chemistry, organic chemistry, biochemistry & independent study: Historical & Phytochemical Monograph on *Phytolacca americana*.

Conferences, Symposia, Seminars 1991 - current
Regularly attended herbal medicine conferences including Medicines from the Earth, AHG Symposium, Southwest Conference on Botanical Medicine at SCNM, etc. Studied & worked with Appalachian herbalists & wildcrafters including Doug Elliott.

Blazing Star Herbal School, Shelburne Falls, MA 1988-1991
Studied traditional herbalism with Gail Ulrich, Pam Montgomery & others; helped to organize the first annual Women's Herbal Conference.

Wise Woman Center, Saugerties, NY 1986-1987
Studied traditional herbalism with Susun Weed, Pam Montgomery, WhiteFeather & others: wildcrafting, medicine-making, plant communication.

HONORS AND AWARDS

Harry Henry Johnston Award for Excellence in Biology 2000-2001
UNC-A

Award for Outstanding Performance in Organic Chemistry 1999
American Chemical Society, Division of Polymer Chemistry

UNCA Organic Chemistry Student of the Year 1998-1999
For outstanding work in academic & laboratory organic chemistry

RESEARCH EXPERIENCE

Research at UNCA focused on two subjects: the history, phytochemistry, toxicology, and clinical applications of *Phytolacca americana*; & the influence of light on ascorbate levels in developing tomatoes.

1999-2000
Advisor: Dr. Robert Alba

TEACHING EXPERIENCE

Elderberry's Herbal Education Center, Paonia, CO 2017 - current
Director, primary teacher & developer of various workshops & classes (e.g., Advanced Herbal Pharmacy, Honey Pharmacy & Mead Making, Wild Foods & Skills, Wise Woman Week, Nature Cure Retreat, Herbal Organoleptics); Apprenticeships.

Colorado School of Clinical Herbalism, Boulder, CO 2012 - current
Director (2012-2020), teaching multiple courses in Fundamentals & Advanced programs (continuing)

- Currently teaching multiple courses including Vitalism in Western Herbalism, Anatomy & Physiology, Herbal *Materia Medica*, Phytochemistry, Herb/Drug Interactions, Hepatic Detoxification, Botanical Toxicology, Chronic Inflammation & Autoimmunity, Eicosanoids, Physiology of Allergies & Food Intolerances, etc.
- Taught courses in Advanced Nutrition program including Nutritional Physiochemistry & Metabolism, Phytochemistry, & Special Supplements
- As Director, revised & developed written & visual curriculum for many courses
- As Director, revised the syllabi of all courses & programs to meet certification standards; coordinated requirements & documentation for the Department of Education; coordinated activities of multiple teachers & presenters for other courses
- As Director, managed all financial / business activities of CSCH

Southwest College of Naturopathic Medicine, Tempe, AZ 2008 to 2013
Adjunct Professor of Pharmacognosy, Department of Botanical Medicine

- Designed curriculum & taught Phytochemistry & Pharmacognosy Intensives

North American Institute of Medical Herbalism, Boulder, CO 2005 to 2012
Faculty Specialist: Herbal Constituents, Phytochemistry & Pharmacognosy

- Designed curriculum & taught phytochemistry, pharmacognosy, herbal constituents & essential oil safety in the Advanced Herbalism Program

Lectures / Presents at Conferences & Symposia 2004 - current

Presenting various topics in the fields of phytochemistry, pharmacognosy, herbal constituents, Vitalist & clinical herbalism, etc., at NZAMH, AHG, Medicines from the Earth, Midwest Women's Herbal, Good Medicine Confluence, Red Earth Gathering, Montana Herb Gathering, etc.

Lectures / Presents at Schools of Herbal Medicine 2000 - current

Presenting various topics in the fields of phytochemistry, pharmacognosy, herbal constituents, etc., at Herbal Medics Academy, SWIHA, Southwest School of Botanical Medicine, Rocky Mountain Center for Botanical Studies, Blue Ridge School of Herbal Medicine, North Carolina School of Holistic Herbalism, Prairie Wise Herbal School, Tai Sophia Institute, etc.

Books

[Herbal Constituents: Foundations of Phytochemistry](#), 2nd Ed., 2021
Herbal Constituents: Foundations of Phytochemistry, 1st Ed., 2009

Distance Learning Courses

Herbal Constituents, a comprehensive two-semester and modular course for the professional practitioner. Explores the nature, significance, and safety of constituents in medicinal herbs along with principles of synergy, variability, and solubility/extraction.

Make Better Medicine, an online series that teaches phytochemistry principles and practices that can be used to create more concentrated, consistent, and effective herbal products including tinctures, infused oils, elixirs, and more.

Visual Curriculum: Herbal Constituents PowerPoint Decks

Developed extensive visual curriculum materials in the form of richly illustrated PowerPoint decks on multiple topics related to herbal constituents, pharmacognosy & phytochemistry. Available for purchase and use by individual teachers & schools, colleges & universities.

Formulating Herbal Products for the Dietary Supplement & Hemp/CBD Industries

Available for consulting & formulation for a variety of products containing botanicals. Skilled in the art & science of combining herbal extracts, phytochemicals, nutrients, essential oils & cannabinoids to create safe, potent & appealing products for the marketplace.