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Namaste Health Center <http://intuitiveterrain.com/homepage-2/for-our-patients/labs/specialty-lab-kits/23andme-genetic-consulting/>

Nutrigenomic Counselor/Consultant

Durango, CO **October 2013- Present**

Provide interpretation of Single Nucleotide Polymorphism (SNP) data into metabolic profiles and patient treatment plans. This involves researching SNPs to determine metabolic and epigenetic effects and how to manage the clinical aspects of SNPs.

- Translate DNA data into metabolic profiles.
- Utilize enzyme biochemistry knowledge to create SNiP specific supplement programs.
- Use extensive understanding of enzyme deficiencies and excesses and how they are related to metabolic diseases.
- Requires extensive understanding of nutraceuticals and clinical application.
- Consult with Naturopathic Doctors, Acupuncturists, MDs and Chiropractors to provide nutrigenomic patient profiles and treatment plans.
- Develop pharmacogenomic database for guidance on safe use of pharmaceutical agents.

Oncology Nutrition Coach

Durango, CO **March 2010- Present**

Prepare nutritional programs for oncology patients to compliment Naturopathic Oncology treatments.

- Menu planning to provide oncology specific meal plans for Naturopathic Oncology retreats for up to 30 patients.
- Recipe generation to provide nutritionally appropriate recipes with nutritional information for patient use.
- Teach cooking techniques for oncology specific diet programs.
- Teach nutritional biochemistry of sugar, fat and protein as related to cancer.

Thrive Nutritional Formulas LLC www.thriveformulas.com

Founder and Formulation Chemist

Durango, CO **January 2011- Present**

Founded nutraceutical marketing/sales company.

- Developed business plan and marketing plan for startup of nutritional supplement company.
- Designed and built web-store for direct to consumer and physician sales.
- Conducts sales calls on Naturopaths in CA, AZ, NM, UT, NV and CO.
- Attend key professional meetings.
- Sourced ingredients for three nutritional formulas.
- Contracted custom ingredients for products.
- Developed working relationships with contract manufactures.
- Utilized third party laboratories to create R&D and quality control programs.

Envirotech Inc.

Environmental Laboratory Manager

Farmington, NM **January 2010- October 2012**

Managed a busy environmental laboratory that served the oil and gas industry. Involved management of ten employees in house and in the field.

- Managed more than 20 instruments for the analysis of solid, liquid and gaseous samples.
- Management of potentially hazardous samples of various physical states. This required training in hydrogen sulfide, benzene, and radioactive materials handling.
- Responsible for budgeting for \$1M/year laboratory revenue generating activities.
- Field laboratory management required field-work with extensive travel. Responsible for management of mobile laboratory for the analysis of gaseous emissions from remote gas processing units.
- Initiated NELAP laboratory accreditation process.
- Developed new methodologies for analysis of natural gas samples.
- Validated methods for the analysis of soil, water and gas samples.
- Developed methods for analysis of gas processing emissions for hazardous organic pollutants.

Fort Lewis College

Chemistry Professor

Durango, CO **January 2005- December 2009**

Taught college level chemistry lectures and laboratory. I was hired as a full time adjunct faculty member to teach organic chemistry laboratory, general chemistry lectures and laboratory. During my time at Fort Lewis I was awarded multiple teaching awards from both faculty and students.

- General chemistry lectures with up to 150 students. This required curriculum development, generation of power point lectures, course website, writing exams and quizzes, and grading.
- General Chemistry laboratory sections. This required generating new laboratory experiments, grading lab note books, writing quizzes and exams.
- Taught organic chemistry laboratories with up to 25 students. This required management of laboratory chemicals, teaching lab lectures, grading lab notebooks and maintenance of instruments.
- Freshman math program testing coordinator. Required grading and generation of freshman exams.
- Consumer chemistry involved teaching lectures up to 250 students. This required curriculum development, generation of power point lectures, course website, writing exams and quizzes, and grading.
- Biochemistry of fermentation and brewing science with up to 150 students.

Merck Pharmaceutical

Sales Representative

Santa Fe, NM-Tempe, AZ **February 2000- March 2004**

Worked as a member of a promotional team to manage client base in northern New Mexico, Southern Colorado, and the greater Phoenix AZ area. Client base totaled approximately four hundred and included physicians, physician assistants and nurses. The goal of client interaction was to influence prescribing habits through disease and product education.

- Collectively responsible for promotion of six drugs encompassing seven disease states. All promotional activity bound by FDA approval.
- Functioned as computer liaison for my district. Duties included dissemination of information from monthly conference calls, reporting of technical problems to hardware and software technical support team in Philadelphia.
- Territory management included targeting of key accounts by analysis of sales data, coordination of medical education programs, notification of updates to prescribing information, ensuring customers were abreast of current clinical research, and expense account management. Required generation of weekly, monthly and quarterly reports to benchmark sales progress and promotional spending.
- Work directly with key physicians to develop disease education seminars, including cardiology, [renal physiology](#) and neural pathophysiology.
- Regional science liaison for Colorado and New Mexico districts, responsible for training sales reps and managers on science relevant to pharmaceutical classes.

Arizona State University

Research Assistant

Tempe, AZ **January 1997 - February 2000**

Worked with a synthetic organic chemistry research group to design, synthesize and assay novel chemotherapeutic agents through a grant from Arizona Department of Disease Control. Chemotherapeutic agents targeted the [ras-GTPase mitogenic signaling system](#), blocking [the activation of oncogenic ras](#) by farnesyltransferase inhibition as a route of cancer therapy. Responsibilities include computer-aided molecular design, enzyme assay development and pre-clinical testing of anti-cancer compounds.

- Tailored [fluorescence tagged enzyme assay](#) to qualify drug candidates, utilized extensive laboratory and data work-up to verify covalent modification of enzyme active-site.
- Responsible for the screening of 20 potential pharmaceutical compounds, utilizing fluorescence-linked enzyme assay.
- Synthesized novel α -dicarbonyl compounds, utilizing standard synthetic methods including metal catalysis and protecting-group strategies.
- Submitted patent disclosure in May of 1998. Patent encompasses the development of a chemically-novel anti-cancer compound.

Graduate Teaching Assistant

Tempe, AZ **August 1996 - August 1999**

Worked with a team of graduate/undergraduate teaching assistants with direct responsibility for the development and application of ASU's chemistry teaching regimens. Duties include mentoring undergraduate teaching assistants, training graduate teaching assistants, curriculum development, internet teaching methods development, class study plan development and implementation for 300 undergraduate students.

- Received graduate teaching award, "Distinguished Teaching Assistant" as a result of accomplishments within department, 1998. Received "Certificate in Recognition for Excellence as a Teaching Assistant" in 1999.

NPLEX Biochemistry Board Review Classes

Bridgeport, CT and Tempe, AZ January 1999 - July 2002

Developed an interactive computer generated slide-presentation/workbook to teach a two-day review of medical biochemistry for third year medical students. Presentation was designed to be an overview of major biochemical pathways relevant to nutritional and clinical biochemistry. The layout of the presentation stressed [individual pathways](#) and how they [integrate](#) at the cellular level. Course was taught biannually.

Lab Support, Inc.

Lab Technician

Phoenix, AZ March 1996 - August 1996

Employed as an outside quality control contractor for Revlon®. Responsibilities included pre-purchase product raw materials testing, in-process product-component testing to ensure FDA standards for production.

- Assisted Revlon® Product Engineering department in the development of FDA-approved, ISO-9000 cosmetic production processes.
- Direct responsibility for lab testing of finished product to determine quality for approval of shipment to retail market.

NaviQuest, Inc.

Marketing Associate

Durango, CO February 1994 - March 1996

Managed product marketing strategy and relationship between NaviQuest and CellTech, Inc. Responsible for new business development, product marketing and advertisement, sales representative recruitment and training.

- Conceived, co-developed and implemented NaviQuest's direct-to-consumer marketing campaign.
 - Resulted in \$830,000 in gross sales for 1995, a 270% increase over the previous year.
- Responsible for the recruitment of 15 direct distributors and 300 retail customers.

Education:

- Fort Lewis College Durango, Colorado
Bachelor of Science - Biochemistry May, 1994
- Arizona State University Tempe, Arizona
Masters of Science - Biochemistry Dec, 1999
- Bastyr University – Certification in Clinical Application of Nutrigenomics Level One and Level Two. 2013 and 2104.

Patents:

- "Anticancer Agents Based on Regulation of Protein Prenylation," provisional patent application, filed October 19, 2000, United States Patent and Trademark Office; Inventors: Rose, Lefler, Ottersberg, Kim, Okolotowicz, and Hartman.
- "Anticancer Agents Based on Prevention of Protein Prenylation," US patent application, filed December 10, 1999, United States Patent and Trademark Office; Inventors: Rose, Ottersberg, Okolotowicz, Robinson, Hartman, and Lefler.

Publications:

- Okolotowicz, K. J.; Lee, W.-J.; Hartman, R. F.; Kim, A. Y.; Ottersberg, S. R.; Robinson, D. E.; Lefler, S. R. and Rose, S. D. Inactivation of Protein Farnesyltransferase by Active-Site-Targeted Dicarboxyl Compounds, Arch. Pharm. Pharm. Med. Chem. 334, 194-202 (2001)
- Spelman K, Burns J, Nichols D, Winters N, Ottersberg S, Tenborg M. Modulation of cytokine expression by traditional medicines: a review of herbal immunomodulators. [Altern Med Rev.](#) 2006 Jun;11(2):128-50.

Public Speaking:

- Methylation Cycle Epigenetics and Health, April 1 2014.

<http://namastehealthcenter.com/media/epigen2-video.html>

Professional Meetings:

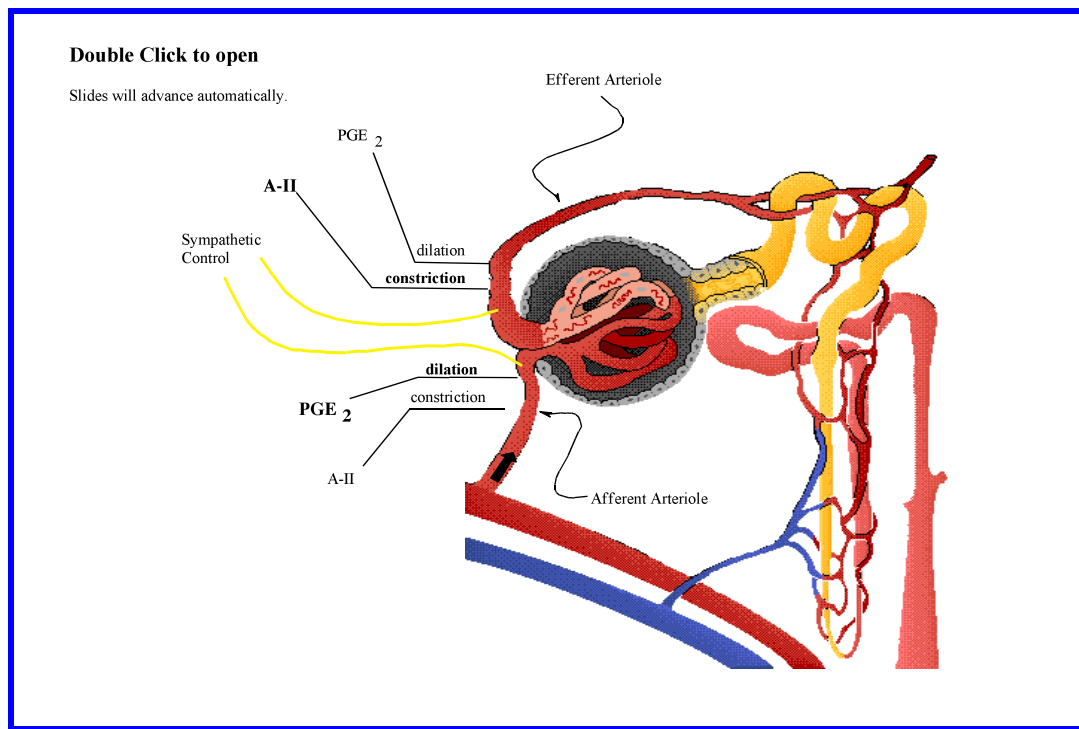
- American College of Cardiology, Santa Fe, NM meetings; Sept. 2000, Sept. 2001, April 2002.
- International Society of Nephrology; ESRD in Indigenous Populations; Oct. 2001.
- American College for the Advancement of Medicine, Phoenix, AZ; April 1999.
- OncANP, Phoenix, AZ 2011-2014
- Healthy Medicine Academy, 2012-2013
- AANP, 2012-2013.
- AZNMA, November 2013.
- California Association of Naturopathic Doctors, September 2013.
- Supply Side West, 2013.
- Nutracon/Natural Products Expo, March 2012.
- IV Symposium 2014.
- Methylation and Clinical Nutrigenomics Part 1, Bastyr University Oct 2013
- Methylation and Clinical Nutrigenomics, Part 2, Bastyr University March 2014
- Best Answer for Cancer, Integrative Oncology, Reno NV April 2014.

Organizations:

- American Chemical Society
Central Arizona Section webmaster, 1997-1999.
- Alpha Chi Sigma, Professional Chemistry Fraternity.
Pledge 1998.
- AOAC (American Association of Analytical Chemists).

Languages:

- Proficient in German.
- Currently studying Spanish.



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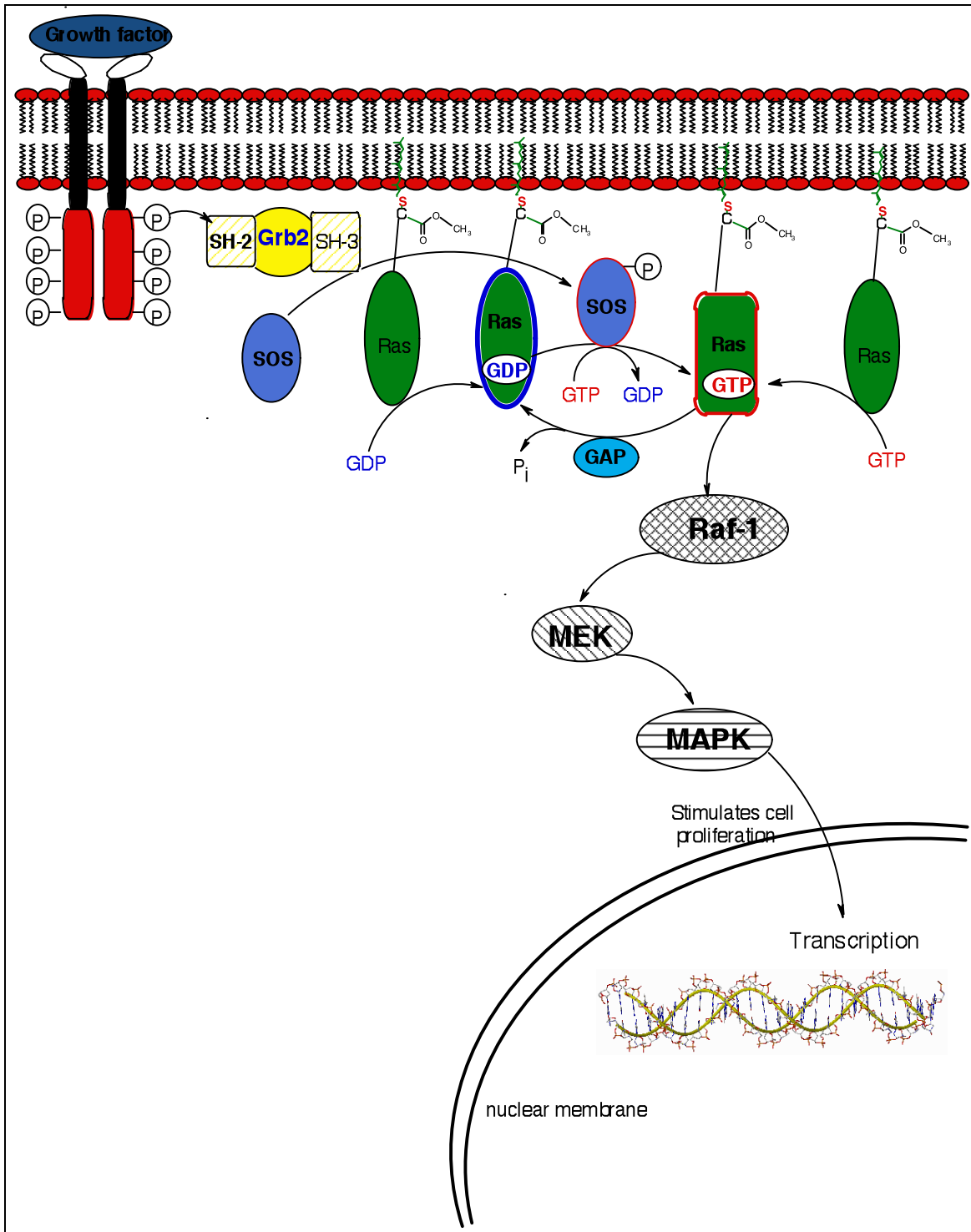


Figure 1. Tyrosine kinase receptor activation of the MAP kinase mitotic signal cascade. The ras protein acts as a molecular switch toggled on by SOS-induced GTP binding to ras. The ras protein is toggled off by the GAP-induced GTPase activity of the ras protein. Ras in the active, GTP-bound conformation signals for nuclear events such as transcription¹⁴

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