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Dr. Monthakan Ratnarathorn, MD, QME
Board Certified in Orthopedic Surgery

Articulate, Board certified Orthopedic Surgeon with more than 20 years of clinical expertise and 1 year of medical-legal expertise. Highly specialized in Adult & Pediatric Orthopedic Surgery.

EDUCATION

- **Massachusetts Institute of Technology, Cambridge, MA (1993)**
Bachelor of Science, Biology
- **Boston University School of Medicine, Boston, MA (1997)**
Doctor of Medicine, MD
- **University of Hawaii Integrated Surgery Residency Program, Honolulu, HI (1998)**
Internship, General Surgery
- **Charles R. Drew University Program, Los Angeles, CA (2003)**
Residency, Orthopedic Surgery
- **Orthopedic Hospital, Los Angeles, CA (2004)**
Fellowship, Pediatric Orthopedic Surgery

PROFESSIONAL EXPERIENCE

- **Medical Doctor's Associates, Orthopedics (2003 to 2004)**
- **Sequoia Pediatric Orthopedics, Pediatric Orthopedics (2004 to 2008)**
- **Specialty Medical Group, CHCC, Pediatric Orthopedics (2008 to 2011)**
- **Rubin Orthopedics, Pediatric & Adult Orthopedics (2011 to 2012)**
- **Desert Orthopedic Center, Pediatric Orthopedics (2012 to 2014)**
- **Weatherby Healthcare, Orthopedics (2014 to 2015)**
- **Shriners Hospital for Children Los Angeles, Pediatric Orthopedics (2015 to 2017)**
- **Comp Health, Adult Orthopedics (2017 to present)**
- **US Healthworks Medical Group, Orthopedics (2017 to present)**

LICENSURE AND CERTIFICATION

- American Academy of Orthopedic Surgeons, Fellow
- Pediatric Orthopedic Society of North America, Fellow
- Arizona Board Certified Medical License
- California Board Certified Medical License
- Montana Board Certified Medical License
- Nevada Board Certified Medical License
- New Mexico Board Certified Medical License
- California Fluoroscopy X-Ray Supervisor and Operator Permit

HONORS AND AWARDS

- J. Vernon Luck Sr., MD Award - Orthopedic Hospital (2000)
- Betty Lea Stone Fellow – American Cancer Society (1994)
- National Merit Finalist (1989)

RESEARCH & PUBLICATIONS

David Baltimore Laboratory, MIT (Spring 1995) Supervisors: Dr. William Sha, Dr. David Baltimore
Expansion of previous project concerning murine NF subunit, p52, began in the summer of 1993.
Work involved attempts at expression of alternatively-spliced products.

John J. Murphy Laboratory, Boston University SOM (Summer 1994) Supervisors: Dr. Johanna vanderSpek, Dr. John Murphy
Project involved the construction and expression of mutations in the diphtheria toxin-IL-2 fusion protein in hopes of elucidating key sites in the human IL-2 sequence.
Journal of Biological Chemistry. 217(21): 12145-9, 1996 May 24.

David Baltimore Laboratory, Rockefeller University (Summer 1993) Supervisors: Dr. William Sha, Dr. David Baltimore
Initial project was to determine the 5' DNA sequence of the murine NF-subunit, p52, in hopes of developing antibodies for the analysis of protein expression.

Brookhaven National Laboratory (Spring 1993) Supervisor: Dr. Walter Mangel
Employed as a student collaborator to assist in the development of Adenovirus 2 antiviral agents.
Work included assays in enzyme kinetics to characterize targeted proteins.
paper submitted to Biochemistry

BASF Bioresearch Corporation (Summer 1992) Supervisor: Dr. Tariq Ghayur
Employed as a summer intern in the immunology group. Work included RNA and mRNA isolation,

cDNA synthesis, and quantitative PCR in regards to a cytokine-converting enzyme.

7.16 Biotechnology II, MIT (Spring 1992) Professors Richard Mulligan and David Housman
Two-person project concerning Graft-versus-Host Disease. Recombinant DNA techniques were manipulated in attempts to introduce two genes, hsv-tk (Herpes simplex virus thymidine kinase) and cda (cytosine deaminase), into T cells to induce conditional death by the addition of the appropriate antibiotics, gancyclovir and 5-fluorocytosine respectively.

MIT, Biotechnology Process Engineering Center (Spring and Summer 1991) Supervisors: Dr. M. Follettie, Dr. A.J. Sinskey
Employed as a research assistant involved in the study of the regulation of the ask gene in Corynebacterium. Work entailed the use of DNA expression vectors to make fusion proteins and Western blotting.

Institute for Basic Research, Staten Island (Summer 1990) Supervisor: Dr. Y.Y. Lin, Organic Chemistry Department
Worked as a research volunteer in the syntheses of thymine and thymidine glycol through organic chemistry means in the hopes of understanding how oxidative radicals damage DNA. Familiarity with the use of mass spectrometer.

Institute for Basic Research, Staten Island (Summer 1989) Supervisor: Dr. Raju Pullakart, Lipids Department
Employed as a laboratory assistant involved in the processes of lipid extraction. Work included use of biosil and spice columns, and thin layer and high-performance liquid chromatography.