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Internal Medicine
Pathology & Toxicology

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CURRICULUM VITAE

EDUCATION AND TRAINING:

Undergraduate – Hunter College, City University of N.Y. Bachelor of Arts, 1969.

Graduate – Autonomous University of Guadalajara Doctor of Medicine, 1972.

Postgraduate –

1. Rotating Internship – Univ. of Puerto Rico, Mayaguez Medical Center, 1973.
2. Pathology Residency – Univ. of Pittsburgh, School of Medicine, 1973 - 1976.
3. Clinical Immunopathology Fellow – U of Pittsburgh, Dept. of Pathology, 1977.
4. Juris Doctor Degree – Abraham Lincoln University, School of Law, 1997-2001.
5. University of Florida, Forensic Toxicology Masters Degree, 2004.
6. RMIT University, Melbourne, Australia, Graduate Diploma in Toxicology, 2005.
Master's in Applied Toxicology, 2009.
7. University of Edinburgh, MSc Program Translational Medicine, 2012 to present

CERTIFICATION, LICENSURE AND FELLOWSHIP:

American Board of Pathology (Anatomic and Clinical) 1977

American Board of Preventive Medicine (Occupational Medicine) 2006

American Board of Forensic Toxicology 2008

Medical Licenses: Pennsylvania, 1975 No. 036075; California, 1977 No. A30858
Q.M.E. No.. 008609; Texas, 2011 No. P1130

Civil Surgeon's Identification Number (CSID #), U.S. Citizenship and Immigration Services 102502

APPOINTMENTS AND POSITIONS:

1978-1979 Co-Director, Upjohn Laboratory Procedures, Inc.

1978-1987 Director, Diagnostic Pathology Associates

1980-present Medical Director at Del Carmen Medical Center

1980-present Valley Presbyterian Hospital, Providence-Tarzana Medical Center

1987-present Medical Director of KedPlasma, a Plasmapheresis Center

1997-present Pathologist, Forensic Autopsy Services

1999-present Clinical Associate Professor of Pathology, University of
Southern California, Keck School of Medicine

2001-present Director – Psychemedics Inc. Toxicology Laboratory

2001-present Director – H.I.B.M. Genetics Research Laboratory

HONORS:

Scholarship – Autonomous University of Guadalajara
Fellow of the American Cancer Society
Fellow of the College of American Pathologists
Award Mayor Bradley for Senior Health Care Program
Centro de Amistad Award for donated services to Latino Community
County of L.A. Supervisor Mike Antonovich award for public service
City Attorney Office Award for Services to Victims of Crime
Keck USC School of Medicine, Professor of the Year (2002, 2004)

PROFESSIONAL ACTIVITIES:

Teaching Fellow, School of Cytotechnology of the University Health Center of Pittsburgh, 1974 to 1977.
Associate Laboratory Instructor, University of Pittsburgh School of Medicine, Department of Pathology, 1974 to 1977.
Guest Lecturer, California State University – Advanced Immunology Review, August 1978.
Regular Lecturer, University of Southern California, School of Medicine, 1983-1984.
Postgraduate Fellowship Training, Olive View Medical Center Department of Obstetrics and Gynecology, 1988-1989.
Career Consultant, California State University at Northridge, 1989-present.
Centro de Amistad Physician Consultant for abused women and children, 1986-present.
Lecturer Valley Presbyterian Hospital – Health Education Center – Hispanic Prenatal Care Program, 1993.
Human Resource Center, Inc. – President – a non-profit community clinic serving the indigent and elderly, 1984-1996.
Chabad of the Valley – A non-profit organization – volunteer staff physician serving indigent community members , 1981-present.
Los Angeles Regional Food Bank – local director of distribution center – San Fernando Valley, 1995.
Consultant – Contributing Forces for Battered Women, 1995-1997.

RESEARCH:

1971 Intestinal Transit Time and Its Relationship to Dietary Fiber.
1976 Review of Sarcomas of the Breast – University of Pittsburgh, Health Center Hospitals.
1989-Present Hyperimmunization of Blood Donors for the Production of Anti-Rh (D) Gammaglobulin (Immunization Research).
1993-Present Vaccine Induction of Antibodies to Hepatitis B Vaccine (Immunization Research).
2000 Clinical Investigator for Quintiles Laboratories/GlaxoWellcome Study of Females with Irritable Bowel Syndrome.

- 2001 Clinical Investigator for Bayer Pharmaceuticals Study on Community Acquired Pneumonia.
- 2002 Liver Cell Transplantation Using a Mouse Model of Wilson's Disease – Professor Paul Wright, Mentor, RMIT University.
- 2006 Clinical Investigator for study of Polymerase Chain Reaction Testing for Hepatitis B Virus in Pooled Samples from Source Plasma Donors – Protocol NGI 99-01/BB-IND 8629 – Baxter Study
- 2007 Merck Diabetes Clinical Research Study (Protocol # MK-0431A-079)
- 2007 Merck Diabetes Clinical Research Study (Protocol # MK-0431-064)
- 2007 Merck Renal Insufficiency Research Study (Protocol # MK-0431-063)
- 2008 Merck Diabetes Clinical Research Study (Protocol # MK-0431-061)
- 2008 Pfizer GI Reasons Clinical Research Study
- 2008 SeraCare Hepatitis A Clinical Research Study
- 2008 SeraCare Rubella Clinical Research Study
- 2009 Pfizer GI Reasons Clinical Research Study (Protocol # A3191331)
- 2009 Pfizer GI Reasons Clinical Research Study (Protocol # A4091016)
- 2009 Pfizer GI Reasons Clinical Research Study (Protocol # A4091018)
- 2009 Targeted Medical Pharma Research Study (Protocol # SentraPM 102)
- 2009 Merck Asthma Clinical Research Study (Protocol # MK-0633-007)
- 2010 Merck Gardasil Vaccine Research Study (Protocol # V503-002)
- 2010 Merck Diabetes Clinical Research Study (Protocol # MK-0431-061)
- 2012 Ventrus Biosciences, Symptomatic Internal Hemorrhoids (VEN309-Hem)

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES:

College of American Pathologists, Diplomate
 Interamerican College of Physicians and Surgeons
 American Academy of Clinical Toxicology
 American Board of Forensic Toxicology, Diplomate

PUBLICATIONS:

1. Pietruszka, M., Rabin, B.S., and Strodes, C.: Multiple Myeloma in a Husband and Wife. *Lancet* 1:314, 1976.
2. Barnes, E.L., and Pietruszka, M.: Stromal Sarcomas of the Breast: A Clinicopathologic Analysis of 10 Cases. *Cancer* 40: 1577-1977.
3. Pietruszka, M., and Barnes, E.L.: Cystosarcoma Phyllodes: A Clinicopathologic Analysis of 42 Cases. *Cancer* 41: 1974-1983, 1978.
4. Pietruszka, M., Salazar, H., Pena, C.: Malignant Meningioma – Ultra Structure and Observations on Histogenesis. *Journal of Pathology* 10: 169-173, 1978.
5. Myerowitz, R.L., Pietruszka, M., Barnes, E.L.: Hemangiosarcoma of the Breast. *Jama* 239:403, 1978.
6. Barnes, E.L., and Pietruszka, M.: Rhabdomyosarcoma Arising with a Cystosarcoma Phyllodes. Case Report & Review of the Literature. *American Journal of Surgical Pathology* @: 423-429, 1978.
7. Pietruszka, M., and Kessler, F.: Schweppner's Gland – Recent Advances. *Journal of Irreproducible Results*. 1978

8. Pietruszka, M. And Rabin, BS. : Abnormality of Spontaneous Lymphokine Synthesis by Lymphocytes of Patients with Connective Tissue Disorder. *Immunological Communications*, 1979; 8(2):203-211.
9. Pietruszka, M.: *A Medical Guide for Travelers*. The Immunization Center, Tarzana, California. 1982.
10. Pietruszka, M., and Lambert, P.: *The Trimetric Secret: The Complete Program for Permanent Weight Loss and a Healthier Lifestyle*. 1986
11. Pietruszka, M., and Lambert, P.: *EL Secreto Trimetrico* (Spanish Translation of Above Text) 1989.
12. Pietruszka, M.: *Cuidados Durante El Embarazo, La Infancia y La Ninez*. Quail Valley Publications, 1991.
13. Pietruszka, M. Medical/Health Concerns of the Hispanic published in "The Hispanic Childbearing Family: Culture and Language" Presbyterian Hospital, 1993.
14. Pietruszka, M.: *Guia Sobre El Control De Peso*. Quail Valley Publications, 1996.
15. Pietruszka, M.: *Nuevos Conceptos Sobre La Nutricion*. Quail Valley Publications, 1996.
16. Pietruszka, M.: *Trim Naturally: A Complete Guide for Permanent Weight Loss*. Quail Valley Publications, 1997.
17. Naiem S, Huo YK, Darvish BK, Pietruszka M, Darvish Daniel. Genotype-Phenotype Correlation of Autosomal Recessive Inclusion Body Myopathy (IBM2) (Abstract Poster Session) 53rd Annual Meeting of the American Society of Human Genetics, Nov 2003, Los Angeles.
18. Pietruszka M. *Biochemical Mechanisms in Toxic Cell Injury* (Thesis), University of Florida, July 2004.
19. Pietruszka M, Schaffer M, Chao O, Hill V. Measurement of Nicotine and Cotinine in Hair of Children and Adults by GC/MS/MS. Society of Forensic Toxicologist Annual Meeting, October 2005 Nashville, Tennessee (Abstract)
20. Pietruszka M, Valles-Ayoub Y, Saechao C, Haghightgoo A, Neshat MS, Darvish D. Validation of GNE:p.M712T Identification by Melting Curve Analysis. *Genet Test*. 2008 Spring; 12(1): 101-9. PMID: 18373408
21. Haghightgoo A, Valles-Ayoub Y, Saechao C, Esfandiarifard S, Martinez S, Pietruszka M, Darvish D. Prevalence of the MTHFR C677T Polymorphism in patients of Middle Eastern descent (ASHG conference, Philadelphia, 2008).
22. Pietruszka M. Measurements of Nicotine and Cotinine by GC/MS/MS in Hair of Adults and Children with Respiratory Disease Thesis, Royal Melbourne Institute of Technology, School of Medicine, December 2008.
23. Valles-Ayoub Y, Martinez S, Haghightgoo A, Shah I, Saechao C, Khokher, S, Esfandiarifard S, Riley CJ, Pietruszka M, Darvish D. Development and functional analysis of wildtype and R266Q GNE expression plasmids (12th Annual American Society of Gene Therapy Conference, San Diego, CA 05/09)
24. Haghightgoo A, Valles-Ayoub Y, Saechao C, Esfandiarifard S, Martinez S, Pietruszka M, Darvish D. MTHFR C677T Genotype Frequency in Patients of Middle Eastern Descent as Determined by Real-Time PCR and Melting Curve Analysis. *Genet Test Mol Biomarkers*. 2009 Jul 13.

25. Pietruszka M, Valles-Ayoub Y, Saechao C, Khoker Z, No D, Shook S, Haghghatgoo A, Jay C, Darvish D. Novel GNE Mutations in Hereditary Inclusion Body Myopathy Patients of Non-Middle Eastern Descent. *Mol Biomarkers*. 2010 Jan 10.
26. Pietruszka M, Valles-Ayoub Y, Esfandiarifard S, Sinai P, Carbajo R, Khoker Z, No D., Darvish B., Kakkis E, Darvish D. Serum Neural Cell Adhesion Molecule (NCAM) is Hyposialylated in Hereditary Inclusion Body Myopathy (HIBM); ASGCT – Gene & Cell Therapy Conference, 2011.
27. Pietruszka M, Daldalyan K, Schaffer M, Hill V, Measurements of nicotine and cotinine by GC/MS/MS in hair of adults and children (submitted for publication 2014)

PRESENTATIONS:

1. Valles-Ayoub Y, Saechao C, Haghghatgoo A, Neshat MS, Pietruszka M, Darvish D. Validation of GNE:pM712T Identification by Melting Curve Analysis. Poster #126. American Society of Human Genetics (ASHG), 2007 Annual Meeting, San Diego, CA.
2. Haghghatgoo A, Valles-Ayoub Y, Saechao C, Esfandiarifard S, Martinez S, Pietruszka M, Darvish D. Prevalence of the MTHFR C677T polymorphism in patients of Middle Eastern descent. (1579) (10:30AM – 12:30PM on Fri). American Society of Human Genetics, 58th Annual Meeting, Philadelphia, PA, Nov 11-15, 2008.
3. Pietruszka M, Saechao C, Valles-Ayoub Y, Haghghatgoo A, Esfandiarifard S, Martinez S, Darvish D. Novel GNE mutations in patients of non-Middle Eastern descent with autosomal recessive hereditary inclusion body myopathy. (1457) (4:30PM-6:30PM on Wed). American Society of Human Genetics, 58th Annual Meeting, Philadelphia, PA, Nov 11-15, 2008.
4. Valles-Ayoub Y, Saechao C, Haghghatgoo A, Khokher Z, No D, Martinez SL, Shah I, Esfandiarifard S, Riley-Portuges AC, Jay C, Pietruszka M, Darvish D. Development and functional analysis of wildtype and R266Q GNE expression plasmids.(545) (1:00PM-2:00PM on Wed). American Society of Human Genetics, 59th Annual Meeting, Honolulu, HI, Oct 20-24, 2009.
5. Valles-Ayoub Y, Saechao C, Haghghatgoo A, Khokher Z, No D, Martinez SL, Shah I, Esfandiarifard S, Riley-Portuges AC, Jay C, Pietruszka M, Darvish D. Improved colorimetric (TBA) sialic acid assay validated by GNE transduction of Gne-null Lec3 CHO cells. (360) (2:00PM-3:00PM on Wed). American Society of Human Genetics, 59th Annual Meeting, Honolulu, HI, Oct 20-24, 2009.
6. Valles-Ayoub Y, Saechao C, Haghghatgoo A, Khokher Z, No D, Martinez SL, Shah I, Esfandiarifard S, Riley-Portuges AC, Jay C, Pietruszka M, Darvish D. Improved Colorimetric (TBA) Sialic Acid Assay Validated by GNE Transduction of Gne-null Lec3 CHO cells. Glyco 2009 Session: Glycobiology of Disease – Poster Session I-F. San Diego, CA, Nov 12-15, 2009.

7. Carbajo R, Valles-Ayoub Y, No D, Khokher Z, Sandoval L, Sagoo S, Darvish B, Pietruszka M, Darvish D. Novel GNE Mutations in Patients with Autosomal Recessive Hereditary Inclusion Body Myopathy, American Society of Gene and Cell Therapy, Philadelphia May 2012.
8. No D, Valles-Ayoub Y...Darvish B, Pietruszka M, Genetic Testing and Molecular Biomarkers, Novel GNE Mutations in Autosomal Recessive Hereditary Inclusion Body Myopathy Patients, Vol. 17, pgs 376-82, May 2013

USC KECK SCHOOL OF MEDICINE

2006/2007/2008/2009/2010 TEACHING SCHEDULE:

- December 2005: Laboratory Manifestations of Cancer; Parathyroid and Bone Pathology, Ovary, Testis, Uterine tumors
- January 2006: Disease of the Breast
- February 2006: Colon Cancer & Inflammatory Bowel Disease, Diseases of the Liver
- August 2006: Diseases of the Endocardium and Cardiac Valves
Diseases of Myocardium and Pericardium
- September 2006: Nephrotic/Nephritic Syndrome
- October 2006: Obstructive Uropathy and Cystic Disease
Neoplasms of the Urinary Tract
Respiratory/ Infections of the Lung
Respiratory/AIDS
- November 2006: Interstitial Lung Disease
Abnormalities of Blood Supply
Neoplasia
- December 2006: Pathology of the Adrenal Gland
Pathology of the Thyroid Gland
- February 2007: Inflammatory Bowel Disease
- May 2007: Non-Neoplastic Disease of Bones and Joints
Tumors of Mesenchymal Origin
- August 2007: Diseases of the Endocardium and Cardiac Valves
- October 2007: Chronic Obstructive Pulmonary Disease
Introduction to Pathology
- November 2007: Tissue Injury and Inflammation
Inflammation and Healing
Laboratory Manifestations of Cancer
- December 2007 through October 2008: Research
- November 2008: Pathology of the Pancreas
Pathology of the Adrenal Gland
- November 2009: Islets of Langerhans
Pathology of the Adrenal Gland
- December 2009: Pathology of the Pituitary Gland
- May 2010: Tumors of Mesenchymal Origin
Non-Neoplastic Diseases of Bone and Joints
- September 2010: Nephrotic & Nephritic Syndromes

October 2010: Cancer of the Lung
 November 2010: Infections of the Lung
 February 2011: Diseases of the Exocrine Pancreas
 September 2011: Nephrotic/Nephritic Syndrome
 Obstructive Uropathy/Tubulointerstitial Diseases
 December 2011: Laboratory Manifestations of Cancer
 May 2012: Tumors and Mesenchymal Origin
 Non-neoplastic Diseases of Bone and Joints
 August 2012: Diseases of Myocardium and Pericardium
 October 2012: Pathology of Obstructive Uropathy & Cystic Disease
 October 2012: Clinical/Path Features of Neoplasms of Urinary Tract System
 October 2012: Chronic Obstructive Pulmonary Disease
 November 2012: Neoplasia
 November 2012: Islets of Langerhans
 October 2013: Chronic Obstructive Lung Disease
 October 2013: Interstitial Lung Disease
 October 2013: Lung Cancer
 October 2013: Infections of the Lung
 November 2013: ENT Pathology
 November 2013: Neoplasia
 February 2014: Pathology of the Esophagus & Stomach
 March 2014: Pathology of the Exocrine Pancreas
 May 2014: Musculoskeletal Tumors of Mesenchymal Origin
 May 2014: Non-Neoplastic Diseases of Bones, Joints and Connective
 Tissue
 August 2014: Disease of Blood Vessels
 August 2014: Diseases of Endocardium and Cardiac Valves
 October 2014: Interstitial Lung Disease
 October 2014: Pathology of Chronic Obstructive Pulmonary Disease
 November 2014: Infections of the Lung
 November 2014: Ear, Nose and Throat Pathology I
 December 2014: Pathology of the Pituitary