

University of Pittsburgh

School of Medicine

CURRICULUM VITAE

BIOGRAPHICAL

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EDUCATION and TRAINING

GRADUATE

Dates Attended	Name and Location of Institution	Degree Received and Year	Major Subject
1975 – 1980	College of Medical Sciences of the State University of Rio de Janeiro, Brazil	Doctor of Medicine, 1980	Medicine and Public Health
1980	State of Rio de Janeiro Secretary of Health	Internship, 1980	Preventive Medicine
Jan 1981 – Dec 1985	Instituto Oswaldo Cruz, Rio de Janeiro, Brazil	Fellow, 1985	Microbiology
Jan 2004 – Dec 2005	Institute of Childcare and Pediatrics “Martagão Gesteira”, Federal University of Rio de Janeiro, Brazil	Fellow, 2005	Medical Genetics
03-01-2006 – 09-29-2008	College of Medicine of the Federal University of Rio de Janeiro, Brazil	Master of Science, 2008	Clinical Laboratory Medicine

POSTGRADUATE

Dates Attended	Name and Location of Institution	Degree Received and Year	Major Subject
08-01-2013 – 03-26-2018	Joint with College of Medicine of the Federal University of Rio de Janeiro, Brazil and University of Porto, Portugal	Doctor of Philosophy (PhD), 2018	Inborn Errors of Metabolism, Medical Genetics

APPOINTMENTS and POSITIONS

ACADEMIC

Years Inclusive	Name and Location of Institution or Organization	Rank/Title
04-01-2020 – ongoing	School of Medicine, Department of Pediatrics, University of Pittsburgh, Pittsburgh, PA	International Scholar Associate

NON-ACADEMIC

Years Inclusive	Name and Location of Institution or Organization	Rank/Title
12-23-1986 – 09-15-2019	Rio de Janeiro's Municipal Department of Health, Rio de Janeiro, Brazil	Clinical Pathologist and Clinical Geneticist
Aug 1995 – Apr 2010	Laboratory "Diagnósticos Laboratoriais Especializados", Rio de Janeiro, Brazil	Research and development manager
11-25-2005 – 02-28-2020	National Regulatory Agency for Private Health Insurance and Plans, Rio de Janeiro, Brazil	Coordinator/Expert in Regulatory Affairs

CERTIFICATION and LICENSURE

SPECIALTY CERTIFICATION:

Certifying Board	Year
Specialist in Clinical Pathology - Brazilian Society of Clinical Pathology and Laboratory Medicine, Brazilian Medical Association	1988
Specialist in Medical Genetics - Brazilian Society of Medical Genetics, Brazilian Medical Association	2002

MEDICAL or OTHER PROFESSIONAL LICENSURE:

Licensing Board/State	Year
Regional Council of Medicine/Rio de Janeiro, Brazil	2020 – last licensure renewal
University of Porto, Portugal - PhD degree recognized as equivalent to the Portuguese higher education doctoral degree	2018
College of Medicine, University of Porto, Portugal - Integrated Master Degree in Medicine	2020

MEMBERSHIP in PROFESSIONAL and SCIENTIFIC SOCIETIES

Organization	Year
Brazilian Society of Medical Genetics	2003 onwards

HONORS

Title of Award	Year
Dr José Pinheiro Scientific Award, Brazilian Society of Clinical Pathology and Laboratory Medicine.	1997
Highlight Award of the VII Health Award, Child Health Category, Abril Publishing Company, Sao Paulo, Brazil	2012

PUBLICATIONS

1. ORIGINAL PEER REVIEWED ARTICLES

1. Garcia ES, **Vieira E**, Gomes JEPL, Goncalves AM. Molecular biology of the interaction *Trypanosoma cruzi*/invertebrate host. Mem Inst Oswaldo Cruz. 1984;79(Suppl.):33-7.
2. Garcia ES, **Vieira E**, Goncalves AM, Morel CM, Alves MM, Colli W. A strain of *Trypanosoma cruzi*, and its biochemical characterization after passage through different invertebrate hosts. Ann Trop Med Parasitol. 1986;80(3):361-3. Epub 1986/06/01. PubMed PMID: 2432842.

In the two articles above, I was responsible for infecting the invertebrate host, *Rhodnius prolixus*, with different strains of *Trypanosoma cruzi* and for following the differentiation and multiplication of the parasite in the host.

3. Stuckert APAL, **Vieira Neto E**, Machado RD. Sensitivity and characteristics of 45 strains of coagulase-negative *Staphylococcus* sp isolated from clinical specimens. Rev Bras Anal Clin. 1994;26(1):27-31.

I adapted the standard methods for identifying coagulase-negative staphylococci to the usual routine of a clinical microbiology lab in a scarce resource setting.

4. **Vieira Neto E**, Cardoso CBMA, Carvalho EC, Fonseca A. Second trimester serum markers in antenatal screening of Down's syndrome and neural tube defects: medians from a group of Brazilian pregnant women. J Bras Patol. 1996;32(4):179-87.
5. **Vieira Neto E**, Loureiro IG, Carvalho EC, Fonseca A. Second trimester maternal serum inhibin-A: a new biochemical marker of Down's syndrome. J Bras Patol. 1999;35(4):217-23.
6. **Vieira Neto E**, Carvalho EC, Fonseca A. Adaptation of alpha-fetoprotein and intact human chorionic gonadotropin fluoroimmunoassays to dried blood spots. Clin Chim Acta. 2005;360(1-2):151-9. Epub 2005/07/05. doi: 10.1016/j.cccn.2005.04.023. PMID: 15993391.

7. **Vieira Neto E**, Fonseca AA, Almeida RF, Figueiredo MP, Porto MA, Ribeiro MG. Analysis of acylcarnitine profiles in umbilical cord blood and during the early neonatal period by electrospray ionization tandem mass spectrometry. *Braz J Med Biol Res.* 2012;45(6):546-56. Epub 2012/04/11. doi: 10.1590/s0100-879x2012007500056. PMID: 22488223.
8. **Vieira EN**, Maia HSF, Monteiro CB, Carvalho LM, Tonon T, Vanz AP, Schwartz IVD, Ribeiro MG. Quality of life and adherence to treatment in early-treated Brazilian phenylketonuria pediatric patients. *Braz J Med Biol Res.* 2017;51(2):e6709. doi: 10.1590/1414-431X20176709. PMID: 29267500.
9. Malta DC, Bernal RTI, **Vieira Neto E**, Curci KA, Pasinato MTM, Lisboa RM, Cachapuz RF, Coelho KSC. Trends in risk and protective factors for non-communicable diseases in the population with health insurance in Brazil from 2008 to 2015. *Rev Bras Epidemiol.* 2018;21(suppl 1):e180020. doi: 10.1590/1980-549720180020.supl.1. PMID: 30517471.

I collaborated with the other authors on data analysis to verify trends in risk and protective factors for non-communicable diseases (NCD) and access to preventive tests in the insured population of Brazilian state capitals between 2008 and 2015.

10. **Vieira Neto E**, Laranjeira F, Quelhas D, Ribeiro I, Seabra A, Mineiro N, Carvalho LM, Lacerda L, Ribeiro MG. Mutation analysis of the PAH gene in phenylketonuria patients from Rio de Janeiro, Southeast Brazil. *Mol Genet Genomic Med.* 2018. doi: 10.1002/mgg3.408. PMID: 29749107.
11. **Vieira Neto E**, Maia Filho HS, Monteiro CB, Carvalho LM, da Cruz TS, de Barros BV, Ribeiro MG. Behavioral and emotional problems in early-treated Brazilian children and adolescents with phenylketonuria. *Med Sci Monit.* 2018;24:7759-69. doi: 10.12659/MSM.909146. PMID: 30375370.
12. **Vieira Neto E**, Laranjeira F, Quelhas D, Ribeiro I, Seabra A, Mineiro N, Carvalho LM, Lacerda L, Ribeiro MG. Genotype-phenotype correlations and BH4 estimated responsiveness in patients with phenylketonuria from Rio de Janeiro, Southeast Brazil. *Mol Genet Genomic Med.* 2019;7(5):e610. doi: 10.1002/mgg3.610. PMID: 30829006.

13. Bösch F, Landolt MA, Baumgartner MR, Zeltner N, Kölker S, Gleich F, Burlina A, Cazzorla C, Packman W, Schwartz IVD, **Vieira Neto E**, Ribeiro MG, Martinelli D, Olivieri G, Huemer M. Health-related quality of life in paediatric patients with intoxication-type inborn errors of metabolism: Analysis of an international data set. *J Inherit Metab Dis*. 2020 Aug.

I contributed patient data.

14. Malta DC, Bernal RTI, **Vieira Neto E**, Curci KA, Pasinato MTM, Lisboa RM, Cachapuz RF, Coelho KSC, Santos FPD, Freitas MIF. Noncommunicable diseases, risk factors, and protective factors in adults with and without health Insurance. *Cien Saude Colet*. 2020 Aug;25(8):2973-83.

I collaborated with the other authors on data analysis to verify trends in risk and protective factors for non-communicable diseases (NCD) and access to preventive tests in the insured population of Brazilian state capitals between 2008 and 2015.

2. OTHER PEER REVIEWED PUBLICATIONS

1. **Vieira Neto E**, Liberman J, Fonseca AA. Fetal Turner syndrome and tetralogy of Fallot associated with elevated maternal serum alpha-fetoprotein levels. *Rev Bras Ginecol Obstet* 1998;20(5):283-7. doi: 10.1590/S0100-72031998000500008.
2. **Vieira Neto E**, Zingoni LF, Fonseca AA. Fetal triploidy associated with low levels of unconjugated estriol and beta-subunit in maternal serum. *Rev Bras Ginecol Obstet*. 1999;21(4):235-8. doi: 10.1590/S0100-72031999000400009.

3. OTHER NON-PEER REVIEWED PUBLICATIONS

1. **Vieira Neto E**, Carvalho EC, Fonseca A. Maternal serum biochemical markers in the screening for fetal aneuploidies: prospective evaluation of a small-scale program in Rio de Janeiro, Brazil. *XX World Congress of Pathology and Laboratory Medicine*. Sao Paulo, SP, Brazil: Monduzzi Editore; 1999. p. 107-112.
2. Otto CC, Nascimento A, Bastos EA, **Vieira Neto E**, Pinto M, Almeida RT. Cost-effectiveness analysis of the molecular test Xpert™ MTB/RIF for the detection of tuberculosis under the perspective of the Brazilian Public Health System (SUS). In: *Brazilian Society of Biomedical Engineering*, editor. *XXII Congress of the Brazilian Society*

of Biomedical Engineering. Tiradentes, MG, Brazil: Brazilian Society of Biomedical Engineering; 2010. p. 435-438.

I reviewed the medical literature regarding the sensibility of the conventional tests used for the diagnosis of tuberculosis.

4. BOOKS, BOOK CHAPTERS AND MONOGRAPHS

1. Gava CM, **Vieira Neto E**, Garcia GC, Araujo MA, Gomes SCS, Jr. Nucleic acid amplification test (NAT) and other strategies for detection of human immunodeficiency virus-1 (HIV-1) and hepatitis C virus (HCV) in donated blood screening. Brazilian Health Technology Assessment Bulletin. Brasília: Brazilian Health Regulatory Agency (Anvisa); 2007. p. 1-9.

I summarized the published evidence of the effectiveness of NAT and alternative strategies for detection of HIV-1 and HCV in the screening of donated blood.

2. **Vieira Neto E**, Rebelo FM, Alves FS, Troncoso G, Gomes MCA, Pereira RF, Lima SO. Drug-eluting stents and bare-metal stents in the treatment of coronary artery disease. Vol. 8, Brazilian Health Technology Assessment Bulletin. Brasília: Brazilian Health Regulatory Agency (Anvisa); 2009. p. 1-22.

3. Gava CM, **Vieira Neto E**, Garcia GC, Ronchini MAK, Louly PG. Clinical strategies for smoking cessation. Vol. 12, Brazilian Health Technology Assessment Bulletin. Brasília: Brazilian Health Regulatory Agency (Anvisa); 2010. p. 1-12.

I wrote the background and epidemiology sections of the report.

4. Franklin EHC, **Vieira Neto E**, Tanaka FHR, Curci KA, Sá MSFS, Góes PN, Lisboa RM, Cachapuz RF, Malta DC, Bernal RTI. Vigitel Brazil 2014 Private Health Insurance and Plans: protective and risk factors for chronic diseases by telephone survey. Brasília: Ministry of Health; 2015. 165 p.

I collaborated with the other authors on data analysis to verify trends in risk and protective factors for non-communicable diseases (NCD) and access to preventive tests in the insured population of Brazilian state capitals in 2014.

5. **Vieira Neto E**, Curci KA, Pasinato MTM, Lisboa RM, Cachapuz RF, Coelho KSC, Malta DC, Bernal RTI, Souza MFM. Vigitel Brazil 2015 Private Health Insurance and Plans Beneficiaries: protective and risk factors for chronic diseases by telephone survey. Brasília: Ministry of Health; 2017. 170 p.

5. PUBLISHED ABSTRACTS (in Scientific Journals)

1. Cardoso CBMA, Fonseca A, Oliveira MFS, Fiorini D, Guasti SV, **Vieira Neto E**. Hyperphenylalaninemia in newborn screening: importance of the differential diagnosis with several inborn errors of metabolism [Abstracts from the VIII Congress of Pediatrics of the State of Rio de Janeiro - CONSOPERJ, 2006, Rio de Janeiro]. Rev Ped SOPERJ. 2006;7(1 Suppl):15.
2. **Vieira Neto E**, Dias AFEB, Vasconcelos JFBS, Faria MAR, Sartorato EL, Sampaio Filho CA, Fonseca A. Cystic fibrosis mutations in newborns with hypertrypsinemia [Abstracts from the VIII Congress of Pediatrics of the State of Rio de Janeiro - CONSOPERJ, 2006, Rio de Janeiro]. Rev Ped SOPERJ. 2006;7(1 Suppl):40.
3. **Vieira Neto E**, Wiesner VP, Fossari LSC, Lando FS, Fonseca A. 3-Hydroxy-3-methylglutaryl-CoA lyase deficiency in a Brazilian patient - case report [Abstracts from the VI Latin American Congress of Inborn Errors of Metabolism and Newborn Screening, 2007, Punta del Este]. Acta Bioquím Clín Latinoam. 2007 (Supl 1):114.
4. **Vieira Neto E**, Gomes SCS Jr, Gava CM, Garcia GC, Araujo MA, Almeida RT, Oliveira ALP. Estimates of the effectiveness of different strategies for screening infection by human immunodeficiency virus (HIV) and hepatitis C virus (HCV) in blood donors in Brazil [Oral presentation to the XVIII IEA World Congress of Epidemiology/VII Brazilian Congress of Epidemiology, 2008, Porto Alegre]. Rev Bras Epidemiol. 2008;Special Number.
5. **Vieira Neto E**, Almeida RT. Evidence-based coverage decision making of genetic tests: an experience from the Brazilian private health insurance sector [Oral presentation to the 6th Annual Meeting of Health Technology Assessment International, 2009, Singapore: O8.5]. Ann Acad Med Singap. 2009;38 Suppl(6):S39.
6. **Vieira Neto E**, Fonseca JHR, Gomes LNLF, Fonseca A. Detection of organic acidurias in Brazilian patients at high risk for hereditary metabolic disease [Abstracts from the 44th Brazilian Congress of Clinical Pathology/Laboratory Medicine]. J Bras Patol Med Lab. 2010;46(4 Suppl 1):172.
7. **Vieira Neto E**, Maia Filho HS, Monteiro CB, Mendes MA, Carvalho LM, Paiva VN, Ribeiro MG. Cognitive functioning and health-related quality of life of early-treated Brazilian

patients with phenylketonuria [Abstracts from the IX Latin American Congress of Inborn Errors of Metabolism and Newborn Screening: Poster 025]. J Inborn Errors Metab Screen. 2013;1:10.

8. **Vieira Neto E**, Faria MAR, Santos CS, Fonseca JHR, Fonseca A. Biomarkers of preeclampsia in the first trimester of pregnancy: placental growth factor and pregnancy-associated plasma protein A [Abstracts from the 48th Brazilian Congress of Clinical Pathology/Laboratory Medicine: Poster 146]. J Bras Patol Med Lab. 2014;50(4 Suppl 1):59.
9. **Vieira Neto E**, Gomes LNFL, Santos CS, Fonseca JHR, Fonseca A. Urinary organic acid profile in maple syrup urine disease [Abstracts from the 48th Brazilian Congress of Clinical Pathology/Laboratory Medicine: Poster 180]. J Bras Patol Med Lab. 2014;50(4 Suppl 1):69.
10. **Vieira Neto E**, Faria MAR, Santos CS, Dias AFEB, Fonseca A. Newborn screening for phenylketonuria by quantitative analysis of phenylalanine and tyrosine by tandem mass spectrometry [Abstracts from the 50th Brazilian Congress of Clinical Pathology/Laboratory Medicine: Poster 88]. J Bras Patol Med Lab. 2016;52(4 Suppl 1):53.
11. **Vieira Neto E**, Gomes LNFL, Santos CS, Fonseca A, Fonseca JHR. Diagnosis of organic acidemias and other inborn errors of metabolism by the analysis of urinary organic acids [Abstracts from the 50th Brazilian Congress of Clinical Pathology/Laboratory Medicine: Poster 91]. J Bras Patol Med Lab. 2016;52(4 Suppl 1):54.
12. **Vieira Neto E**, Maia Filho HS, Monteiro CB, da Cruz TS, de Barros BV, Ribeiro MG. Behavioral and emotional problems in Brazilian early-treated children and adolescents with phenylketonuria [Abstracts from the 13th International Congress of Inborn Errors of Metabolism - ICIEM 2017: Poster 276]. J Inborn Errors Metab Screen. 2017;5:124.
13. **Vieira Neto E**, Gomes LNFL, Fonseca A, Fonseca JHR. Organic acidurias and other inborn errors of metabolism detected by urinary organic acid analysis: a 10-year period experience of a private laboratory in Brazil [Abstracts from the 13th International

Congress of Inborn Errors of Metabolism - ICIEM 2017: Poster 409]. *J Inborn Errors Metab Screen.* 2017;5:185.

14. **Vieira Neto E**, Gomes LNFL, Fonseca A, Fonseca JHR. Glutaric aciduria type 1: twenty-four cases in Brazil over a ten-year period experience [Abstracts from the 13th International Congress of Inborn Errors of Metabolism - ICIEM 2017: Poster 434]. *J Inborn Errors Metab Screen.* 2017;5:196-197.
15. **Vieira Neto E**, Fonseca JHR, Gomes LNFL, Fonseca A. Organic acidurias and other inborn errors of metabolism detected by urinary organic acid analysis: a 10-year period experience of a laboratory in Brazil [Abstracts from the 51st Brazilian Congress of Clinical Pathology/Laboratory Medicine: Poster 586]. *J Bras Patol Med Lab.* 2017;53(4 Suppl 1):26-27.
16. **Vieira Neto E**, Fonseca JHR, Gomes LNFL, Fonseca A. Glutaric aciduria type 1: twenty-four cases in Brazil over a ten-year period experience [Abstracts from the 51st Brazilian Congress of Clinical Pathology/Laboratory Medicine: Poster 588]. *J Bras Patol Med Lab.* 2017;53(4 Suppl 1):27.
17. **Vieira Neto E**, Faria MAR, Lima MJN, Fonseca JHR, Fonseca A. Newborn screening of biotinidase deficiency: results of a private project in Brazil [Abstracts from the 51st Brazilian Congress of Clinical Pathology/Laboratory Medicine: Poster 589]. *J Bras Patol Med Lab.* 2017;53(4 Suppl 1):27.
18. **Vieira Neto E**, Laranjeira F, Quelhas D, Ribeiro I, Seabra A, Mineiro N, Carvalho LM, Lacerda L, Ribeiro MG. Genotype-phenotype correlations and BH₄ predicted responsiveness in patients with phenylketonuria from Rio de Janeiro, Southeast Brazil [Abstracts from the 51st European Society of Human Genetics Conference: Poster P06.56D]. *Eur J Hum Genet.* 2019;27(1):192.
19. **Vieira Neto E**, Laranjeira F, Quelhas D, Seabra A, Mineiro N, Ribeiro I, Carvalho LM, Lacerda L, Ribeiro MG. Mutation analysis of the PAH gene in phenylketonuria patients from Rio de Janeiro, Southeast Brazil [Abstracts from the 51st European Society of Human Genetics Conference: Poster P06.57A]. *Eur J Hum Genet.* 2019;27(1):192-193.