

ALEJANDRO Q. NATO, JR.

PERSONAL DATA

Birthplace: Dagupan City, Pangasinan, Philippines
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EDUCATION

2011 Ph.D. in Microbiology and Molecular Genetics (MMG)/Computational Genetics
Rutgers University, Piscataway, NJ
Thesis Advisor: Tara C. Matise, Ph.D.

2010 Certificate of Concentration in Bioinformatics
University of Medicine & Dentistry of NJ (UMDNJ), Piscataway, NJ

2003 M.S. in Molecular Biology and Biotechnology (MBB)
University of the Philippines (UP) – Diliman, Quezon City, Philippines
Thesis Advisor: Virginia D. Monje, Ph.D.

1993 B.S. in Molecular Biology and Biotechnology (MBB)
University of the Philippines (UP) – Diliman, Quezon City, Philippines
Thesis Advisor: Apolinario D. Nazarea, Ph.D.

POSTGRADUATE TRAINING

2013-present Senior Fellow
Division of Medical Genetics, Department of Medicine
University of Washington, Seattle, WA

2007 Participant, Advanced Gene Mapping/Linkage Course
Rockefeller University, New York, NY, USA

- 2006 Participant, Basic Gene Mapping/Linkage Course
Rockefeller University, New York, NY, USA
- 2003 Participant, Tutorial Meeting on Enhancing the Marine Coastal Environment
Quezon City, Philippines
- 2002 Joint Food and Agriculture Organization (FAO)/International Atomic Energy Agency (IAEA) Fellow
FAO/IAEA Agriculture and Biotechnology Laboratory, Seibersdorf, Austria
on Mutant Germplasm Characterization using Molecular Markers
- 2001 Observer, Regional Training Workshop on Modeling Water Quality and Validation using Radiotracer Techniques (Harmful Algal Bloom Issues), Philippines, utilizing RMA software for 3D radiotracer modeling in the marine environment
- 2000 Participant, Laboratory Demonstration on AFLP-PCR Molecular Technique for Screening Polymorphisms in Variant Crops, PNRI, Quezon City, Philippines
- 1999 IAEA Fellow
Battelle Pacific Northwest National Laboratory, Richland, WA
on Radiation Protection (Dose Assessment): Environmental Risk Assessment and 3D Modeling (Advisor: Yasuo Onishi Ph.D., former Chief Scientist at Battelle PNNL, former committee member of the U.S. National Academy of Sciences, and environmental advisor to the IAEA)
- 1996 JICA/JCAC Fellow
Japan Chemical Analysis Center, Chiba, Japan
on Environmental Radioactivity Analysis and Measurement
- 1995 Participant, Hands-on Workshop on SDS Gel Electrophoresis, Flatbed Isoelectric Focusing, and Immunoblotting, MBB Program, UP-Diliman, Quezon City, Philippines
- 1994 Participant, IAEA/PNRI/PCASTRD-sponsored First National Training Course on Radiation Chemistry, PNRI Quezon City, Philippines
- 1994 Participant, 74th Radioisotope Techniques Training Course
PNRI, Quezon City, Philippines
- 1994 Participant, Computerized Database Management Programming Course
PNRI, Quezon City, Philippines

FACULTY POSITIONS HELD

None

HOSPITAL POSITIONS HELD

None

RESEARCH POSITIONS HELD

- 2011-2013 Postdoctoral Associate
Department of Genetics, Rutgers University
Piscataway, NJ
- 2005-2011 Graduate Assistant
Department of Genetics, Rutgers University
Piscataway, NJ
- 2002-2004 Science Research Specialist II
Philippine Nuclear Research Institute (PNRI)
Quezon City, Philippines
- 1994-2002 Science Research Specialist I
Philippine Nuclear Research Institute (PNRI)
Quezon City, Philippines
- 1993 University Research Associate I
University of the Philippines - Diliman Extension Program in San Fernando
(UPEPSF) Diliman Office, Quezon City, Philippines

OTHER POSITIONS HELD

- 1990-1993 Student Assistant
Office of Counseling and Guidance, University of the Philippines – Diliman
Quezon City, Philippines
- 1990 SWAP Trainee
Benguet Corporation
Mandaluyong City, Philippines

HONORS & AWARDS

- 2007-2010 Anne B. and James B. Leathem Fellow
Division of Life Sciences, Rutgers University, NJ, USA
- 2006 McCallum Scholar
Division of Life Sciences, Rutgers University, NJ, USA
- 2004-2005 Graduate Fellow
Joint RU-UMDNJ Doctoral Programs in Molecular Biosciences, NJ, USA

- 2004 Best Poster, Chemical, Mathematical, and Physical Division
National Academy of Science and Technology 26th Annual Scientific Meeting
Manila, Philippines
- 2003 Finalist, 2003 Philippine Council for Advanced Science and Technology Research
and Development (PCASTRD) Search for Outstanding Thesis and Dissertation
nationwide, Bicutan, Taguig, Philippines
- 2001-2003 Recipient, Department of Science and Technology (DOST)-PCASTRD Thesis
Grant
- 2001-2003 Recipient, UP-Office of the Vice-Chancellor for Research and Development Thesis
Grant
- 1995 First Place, Atomic Energy Week (AEW) Poster Presentation, PNRI
- 1994 Second Place, AEW Poster Presentation, PNRI
- 1994 First Place, Poster Presentation (Undergraduate Category)
19th National Convention of Philippine Society for Biochemistry and Molecular
Biology (PSBMB)
- 1994 First Place, IAEA/PNRI/PCASTRD-sponsored First National Training Course on
Radiation Chemistry
Philippine Nuclear Research Institute
- 1994 Third Place, 74th Radioisotope Techniques Training Course (RTTC) – Agriculture
Philippine Nuclear Research Institute
- 1992 College Scholar
College of Science, University of the Philippines-Diliman
- 1990 University Scholar
College of Science, University of the Philippines-Diliman
- 1988 University Scholar
College of Science, University of the Philippines-Diliman
- 1988-1993 Recipient, DOST-Science Education Institute (DOST-SEI) Scholarship
Selected based on science and technology scholarship examination among
students who belong to the top five percentile nationwide
- 1988-1993 Recipient, Jaime V. Ongpin Fund Scholarship, Benguet Corporation
Additional scholarship granted to selected DOST-SEI Scholars

- 1988 Best in Research, Philippine Science High School
Selected out of ~240 students of Batch 1988
- 1988 First Place, Philippine Science High School Science Fair
Selected out of 40 groups composed of ~240 students
- 1984-1988 Full Scholar, Philippine Science High School
One of 240 students selected out of 120,000 students who belong to the top five percentile nationwide

BOARD CERTIFICATION

None

CURRENT LICENSE(S) TO PRACTICE

None

PROFESSIONAL ORGANIZATIONS & COMMITTEES

- 2015 ASHG Seattle Genetics Meet-Up Working Group
- 2014-2017 ASHG Featured Chat Fridays Subcommittee
- 2014-2017 Second-Round Judge, ASHG's DNA Day Essay Contest
- 2006-present Trainee Member, American Society of Human Genetics
- 2006-2009 Member, American Association for the Advancement of Science
- 2006-2008 Member/Web Designer, Website Committee, Dept. Genetics, Rutgers University
- 2004-2011 Member, Joint Molecular Biosciences Graduate Student Association
- 2001-2004 Member, PNRI Website Development Committee
- 2001 Member, Secretariat, Regional Training Workshop on Modeling Water Quality and Validation using Radiotracer Techniques (Harmful Algal Bloom Issues), Philippines
- 2000-2004 Member, Constitutional Committee, U.P. Green League Alumni Association
- 1998 Member, Secretariat, Project Formulation Meeting on Marine Coastal Environment and Its Pollution, Philippines
- 1996 Member, Technical Committee (Poster and Program), 2nd Phil. Nuclear Congress

- 1996 Member, Secretariat, Project Formulation Meeting on Reference Asian Man, Phase II, Philippines
- 1995-2004 Member, Philippine Association for Radiation Protection (PARP)
1997 Member, Invitation Committee, PARP Biennial Convention
- 1995-2004 Radioisotope Society of the Philippines
- 1995-2003 Member of various Atomic Energy Week Committees
2003 Chairman, Souvenir Program Committee
1998 Chairman, Souvenir and Souvenir Program Committee
1997 Chairman, Technical Poster Committee (Nukteck '97)
1996 Co-Chairman, Technical Exhibits Committee (NucArtek '96)
1996 Member, Tour Guide Committee
1995 Co-Chairman, Tour Guide Committee
1994 Member, Tour Guide Committee
- 1994-present Philippine Society for Biochemistry and Molecular Biology (PSBMB)
- 1994 Member, Documentation and Proceedings Committee
International Conference on Food Preservation and Security, Philippines
- 1993 Member, Secretariat, First Global Youth Earth Saving Summit, Philippines

TEACHING RESPONSIBILITIES

Lecture

- 2014 **Pedigree-based analysis pipeline (PBAP).** Thompson Lab NIH Group. 7 November 2014. University of Washington, Seattle, WA.
- 2014 **Pedigree-based analysis pipeline (PBAP).** Biostat 581: Statistical genetics seminar. 22 April 2014. University of Washington, Seattle, WA.
- 2001 **Applications of radioisotopes in molecular biology**
Lecture during the one-month Training Course on Radioisotopes for High School Biology Teachers at PNRI, Diliman, Quezon City, Philippines. 18 April 2001.
- 1994 **Basic stoichiometry and redox reactions.** Two-meeting lecture at the University of the Philippines-Manila, Taft Avenue, Manila, Philippines for undergraduate students.

Thesis Advising

- 2004 **DNA fingerprinting of ⁶⁰Co- γ radiation induced variants of cashew (*Anacardium occidentale* L.) using AFLP-PCR** (Thesis Co-Advisor of Ma. Abigail G. Perez and Rommel R. Valdez, B.S. Biology, Rizal Technological University – Mandaluyong City)
- 2002 **BRCA1 mutation and polymorphisms in breast cancer patients using PTT and SSCP** (Thesis Co-Advisor of Gretchen Gayle S. Panganiban and Josephine Ann G. Santos, B.S. Biology, UP Manila; Gretchen and Josephine are medical doctors now)

Research Mentoring, Tutoring, and Supervising

- 2015, 2016 **Supervised graduate students** in course Biostat 581 for their presentations: Alice B. Popejoy and Brenton R. Swenson (Feb 2015), Bowen Wang and Yatong Li (Feb 2016), Kelsey Grinde and Tracy Duong (Oct 2016).
- 2013 **Tutored graduate students** in course Biostat 550. Spring 2013. University of Washington, Seattle, USA.
- 2008-2009 **Schizophrenia study** (supervised Danielle Chimento, B.S. Genetics, Rutgers University, NJ, USA)
- 2004 **A prototype tool to formulate the constituents of a synthetic peptide vaccine** (Research Mentor and Thesis Resource Person of Jacqueline A. Teo, M.S. Information Technology, De La Salle University – Taft, Manila)
- 2004 **Molecular biology laboratory techniques** (trained Chitho P. Feliciano from Rizal Technological University – Mandaluyong City for three months; he is now a Senior Science Research Specialist at the Biomedical Research Section of PNRI and the Editor-in-Chief of the *Philippine Nuclear Journal*)
- 2000 **Putative radioresistant bacterial isolate from sewage water** (April Ang, Patricia Chua, Kristine Perez, April Rey, Kristel Rivor, Czarina San Pablo, and Ernestine Santos from Miriam College High School)
- 1998 **SDS-PAGE and its applications** (Murni Indarwatmi, IAEA Fellow from Indonesia)
- 1997 **Effects of γ -radiation on *Vigna unguiculata*** (Michelle A. Rosario and Jesusa B.G. S. Butor from Centro Escolar University)
- 1997 **Interaction of radioprotective effects of reduced glutathione and butylated hydroxyanisole, a known inducer of glutathione synthase in 3rd instar larvae of *Bactrocera philippinensis*** (Dyan Buenaventura, Samantha Marcelo and Elena Dacanay from Philippine Science High School): Finalist during the 49th NCR Search for INTEL Outstanding Research, High School Division)
- 1996 **Laboratory techniques** (Sherwin Sayson from Philippine Science High School)

EDITORIAL RESPONSIBILITIES

- 2000, 2004 Managing Editor, Philippine Nuclear Journal
 1995-1996 Editorial Assistant, *The Nucleus* (by the Radioisotope Society of the Philippines)

AD HOC REVIEWER

Scientific Journals (16), Reviews (26), Re-reviews (10):

Scientific Journal [Articles]	Reviews	Re-reviews
American Journal of Human Genetics [1]	2015(1)	
Annals of Human Genetics [1]	2015 (1)	2015 (1)
BMC Bioinformatics [7]	2013 (1), 2014 (3), 2015 (3)	2015 (2)
BMC Genetics [1]	2012 (1)	
BMC Proceedings [2]	2013 (2)	
European Journal of Human Genetics [1]	2016 (1)	
Gene [1]	2014 (1)	2015 (1)
Genetics Research [1]	2015 (1)	2016 (1)
Genetics Research International [1]	2014 (1)	
Human Heredity [2]	2014 (2)	2016 (1)
Human Immunology [1]	2015 (1)	2015 (1)
Human Mutation [1]	2017 (1)	2017 (1)
Journal of Assisted Reproduction and Genetics [3]	2015 (1), 2016 (2)	
Journal of Medical Genetics [1]	2015 (1)	2015 (1)
Philippine Nuclear Journal [1]	2013 (1)	
Scientific Reports [1]	2015 (1)	2016 (1)

Conferences:

- Philippine Society for Biochemistry and Molecular
 Biology (PSBMB) Annual Convention [2] 2009 (2)

SPECIAL NATIONAL RESPONSIBILITIES

- 2004 Financial Officer / Organizing Committee Member / Participant
 International Atomic Energy Agency (IAEA) / Regional Co-operative Agreement
 (RCA) Training Course on Application of Nuclear and Isotopic Techniques to
 Identify the Source and Distribution of Contaminants in Heavily Polluted Coastal
 Regions, Manila, Philippines
- 2003 Philippine Representative and Proxy of the National Project Coordinator
 IAEA/RCA Project Formulation Meeting on Improving Regional Capacity for
 Assessment, Planning and Responding to Aquatic Environmental Emergencies
 (ANSTO), Lucas Heights, NSW, Australia

SPECIAL LOCAL RESPONSIBILITIES

None

RESEARCH FUNDING

None

BIBLIOGRAPHY

Manuscripts in Refereed Journals

1. D. T. Truong, L. D. Shriberg, S. D. Smith, K. L. Chapman, A. R. Scheer-Cohen, M. M. C. DeMille, A. K. Adams, **A. Q. Nato**, E. M. Wijsman, J. D. Eicher, and J. R. Gruen. 2016. Multipoint genome-wide linkage scan for nonword repetition further supports chromosome 13q as a locus for verbal trait disorders in a multigenerational family. *Human Genetics*. **135**(12):1329-1341. PMID: PMC5065602.
2. Mohamad Saad, **Alejandro Q. Nato**, Fiona L. Grimson, Steven M. Lewis, Elizabeth M. Blue, Elizabeth A. Thompson, and Ellen M. Wijsman. 2016. Identity-by-descent estimation with population- and pedigree-based imputation in admixed family data. *BMC Proceedings*. **10**(Suppl 7): 295-301. PMID: PMC5133511.
3. Elizabeth M. Blue, Lisa A. Brown, Matthew P. Conomos, Jennifer Kirk, **Alejandro Q. Nato**, Alice B. Popejoy, Jesse D. Raffa, J. Ranola, Timothy A. Thornton, and Ellen M. Wijsman. 2016. Estimation of relationships between subjects and phenotypes in admixed families. *BMC Proceedings*. **10**(Suppl 7): 357-362. PMID: PMC5133521.
4. Beate Peter, Ellen M. Wijsman, **Alejandro Q. Nato, Jr.**, UW Center for Mendelian Genomics, Mark M. Matsushita, Kathy L. Chapman, Ian B. Stanaway, John Wolff, Kaori Oda, Virginia B. Gabo, and Wendy H. Raskind. 2016. Genetic candidate variants in two multigenerational families with childhood apraxia of speech. *PLoS One*. **11**(4):e0153864. PMID: PMC4847873.
5. **Alejandro Q. Nato, Jr.**, Nicola H. Chapman, Harkirat K. Sohi, Hiep D. Nguyen, Zoran Brkanac, and Ellen M. Wijsman. 2015. PBAP: A pipeline for family-based quality control of pedigree structures and dense genetic marker data. *Bioinformatics*. **31**(23):3790-3798. PMID: PMC4668752.
6. Nicola H Chapman, **Alejandro Q. Nato, Jr.**, Raphael Bernier, Katy Ankeman, Harkirat K. Sohi, Jeff Munson, Ashok Patowary, Marilyn Archer, Elizabeth M Blue, Sara J Webb, Hilary Coon, Wendy H Raskind, Zoran Brkanac and Ellen M Wijsman. 2015. Whole exome sequencing in extended families with autism spectrum disorder implicates four candidate genes. *Human Genetics*. **134**(10):1055-1068. PMID: PMC4578871.
7. Bo Li, Paul G. Matteson, Myka F. Ababon, **Alejandro Q. Nato, Jr.**, Yong Lin, Vikas Nanda, Tara C. Matise, and James H. Millonig. 2015. The orphan GPCR, Gpr161, regulates the retinoic acid and canonical Wnt pathways during neurulation. *Developmental Biology*. **402**(1):17-31. PMID: 25753732.
8. Adam E. Locke, Bratali Kahali, Sonja I. Berndt, Anne E. Justice, Tune H. Pers, Felix R. Day, ..., **The PAGE Consortium***, et al. 2015. Genetic studies of body mass index yield new insights for obesity biology. *Nature*. **518**(7538):197-206. PMID: PMC4382211. [***Andrew Nato** listed as a member of The PAGE Consortium]
9. Dmitry Shungin, Thomas W. Winkler, Damien C. Croteau-Chonka, Teresa Ferreira, Adam E. Locke, Reedik Mägi, ..., **The PAGE Consortium***, et al. 2015. New genetic loci link adipose

- and insulin biology to body fat distribution. *Nature*. **518**(7538):187-196. PMID: PMC4338562. [***Andrew Nato** listed as a member of The PAGE Consortium]
10. Anthony Musolf, **Alejandro Q. Nato, Jr.**, Douglas Londono, Lisheng Zhou, Tara C. Matise, and Derek Gordon. 2014. Mapping genes with longitudinal phenotypes via Bayesian posterior probabilities. *BMC Proceedings*. **8**(Suppl 1):S81. PMID: PMC4143622.
 11. Andrew R. Wood, Tonu Esko, Jian Yang, Sailaja Vedantam, Tune H Pers, Stefan Gustafsson, ..., **The PAGE Consortium***, et al. 2015. Defining the role of common variation in the genomic and biological architecture of adult human height. *Nature*. **46**(11):1173-1186. PMID: PMC4250049. [***Andrew Nato** listed as a member of The PAGE Consortium]
 12. Logan Dumitrescu, Cara L. Carty, Nora Franceschini, Lucia A. Hindorff, Shelley A. Cole, Petra Bužková, Fredrick R. Schumacher, Charles B. Eaton, Robert J. Goodloe, David J. Duggan, Jeff Haessler, Barbara Cochran, Brian E. Henderson, Iona Cheng, Karen C. Johnson, Chris S. Carlson, Shelly-Anne Love, Kristin Brown-Gentry, **Alejandro Q. Nato**, Miguel Quibrera, Ralph Shohet, José Luis Ambite, Lynne R. Wilkens, Loïc Le Marchand, Christopher A. Haiman, Steven Buyske, Charles Kooperberg, Kari E. North, Myriam Fornage, and Dana C. Crawford. 2013. No evidence of interaction between known lipid-associated genetic variants and smoking in the multi-ethnic PAGE population. *Human Genetics*. **132**(12):1427-31. PMID: PMC3895337.
 13. Megan D. Fesinmeyer, James B. Meigs, Kari E. North, Fredrick R Schumacher, Petra Bužková, Nora Franceschini, Jeffrey Haessler, Robert Goodloe, Kylee L. Spencer, V. Saroja Voruganti, Barbara V. Howard, Rebecca Jackson, Laurence N. Kolonel, Simin Liu, JoAnn E. Manson, Kristine R. Monroe, Kenneth Mukamal, Holli H. Dilks, Sarah A. Pendergrass, **Andrew Nato**, Peggy Wan, Lynne R. Wilkens, Loic Le Marchand, José Luis Ambite, Steven Buyske, Jose C. Florez, Dana C. Crawford, Lucia A. Hindorff, Christopher A. Haiman, Ulrike Peters, and James S. Pankow. 2013. Genetic variants associated with fasting glucose and insulin concentrations in an ethnically diverse population: results from the Population Architecture using Genomics and Epidemiology (PAGE) Study. *BMC Medical Genetics*. **14**:98. PMID: PMC3849560.
 14. Christopher S. Carlson, Tara C. Matise, Kari E. North, Christopher A. Haiman, Megan D. Fesinmeyer, Steven Buyske, Fredrick R. Schumacher, Ulrike Peters, Nora Franceschini, Marylyn D. Ritchie, David J. Duggan, Kylee L. Spencer, Logan Dumitrescu, Charles B. Eaton, Fridtjof Thomas, Alicia Young, Cara Carty, Gerardo Heiss, Loic Le Marchand, Dana C. Crawford, Lucia A. Hindorff, Charles L. Kooperberg, **PAGE Consortium***. 2015. Generalization and dilution of association results from European GWAS in populations of non-European ancestry: The PAGE study. *PLoS Biology*. **11**(9):e1001661. PMID: PMC3775722. [***Andrew Nato** listed as a member of the PAGE Consortium]
 15. Logan Dumitrescu, Cara L. Carty, Nora Franceschini, Lucia A. Hindorff, Shelley A. Cole, Petra Bužková, Fredrick R. Schumacher, Charles B. Eaton, Robert J. Goodloe, David J. Duggan, Jeff Haessler, Barbara Cochran, Brian E. Henderson, Iona Cheng, Karen C. Johnson, Chris S. Carlson, Shelly-Anne Love, Kristin Brown-Gentry, **Alejandro Q. Nato**, Miguel Quibrera, Garnet Anderson, Ralph Shohet, José Luis Ambite, Lynne R. Wilkens, Loïc Le Marchand, Christopher A. Haiman, Steven Buyske, Charles Kooperberg, Kari E. North, Myriam Fornage, and Dana C. Crawford. 2013. Post genome-wide association study challenges for lipid traits: describing age as a modifier of gene-lipid associations in the Population Architecture using Genomics and Epidemiology (PAGE) study. *Annals of Human Genetics*. **77**(5): 416–425. PMID: PMC3796061.

16. Lili Zhang, Nora Franceschini, Petra Buzkova, Christina L. Wassel, Mary J. Roman, Kari E. North, Dana C. Crawford, Jonathan Boston, Kristin D. Brown-Gentry, Shelley A. Cole, Ewa Deelman, Robert Goodloe, Gerardo Heiss, Nancy S. Jenny, Neal W. Jorgensen, Tara C. Matise, Bob E. McClellan, Jr., **Alejandro Q. Nato, Jr.**, Marylyn D. Ritchie, Sarah Wilson, and WH Linda Kao. 2013. Lack of associations of ten candidate coronary heart disease risk genetic variants and subclinical atherosclerosis in four U.S. populations: the Population Architecture using Genomics and Epidemiology (PAGE) Study. *Atherosclerosis*. **228**(2):390-9. PMID: PMC3717342.
17. Wonkuk Kim, Douglas Londono, Lisheng Zhou, Jinchuan Xing, **Alejandro Q. Nato**, Anthony M. Musolf, Tara C. Matise, Stephen J. Finch, and Derek Gordon. 2012. Single variant and multi-variant trend tests for genetic association with next generation sequencing that are robust to sequencing error. *Human Heredity*. **74**(3-4):172-183. Accepted 01/04/2013. PMID: PMC3863939.
18. Makoto K. Shimada, Karuna Panchapakesan, Sarah Tishkoff, **Alejandro Q. Nato, Jr.**, and Jody Hey. 2007. Divergent haplotypes and human history as revealed in a worldwide survey of X-linked DNA sequence variation. *Mol Biol Evol*. **24**(3):687-698. (Adv Access: 14 Dec 2006). PMID: 17175528.
19. Elmer-Rico E. Mojica, **Alejandro Q. Nato, Jr.**, Maria Edlyn T. Ambas, Chitho P. Feliciano, Maria Leonora D.L. Francisco, and Custer C. Deocaris. 2005. Application of irradiation as pretreatment method in the production of fermented fish paste. *J Appl Sci Res*. **1**(1): 90-94.
20. Teresa Yulo-Nazarea, **Alejandro Q. Nato, Jr.**, Eliza B. Enriquez, Lorna Jean H. Palad, Fe M. dela Cruz, Teofilo Y. Garcia, Antonio A. Asada, Jr., and Maria Lucia C. Cobar. 2004. Radiological surveillance of the former U.S. Base: Poro Point, San Fernando City, La Union. *Philipp Nucl J*. **14**:40-47.
21. Custer C. Deocaris, Maria Cereza R. Velasco, Earl Louis Sempio, **Alejandro Q. Nato, Jr.**, and Apolinario D. Nazarea. 2002. An evolutionary perspective on the possible involvement of plasminogen in the pathology of bovine spongiform encephalopathy. *Phil J Vet Anim Sci*. **28**(2):58-67.
22. **Alejandro Q. Nato, Jr.**, Eliza B. Enriquez, Ariel T. Ortiz, and Custer C. Deocaris. 2001. Putative bioindicator of ¹³⁷Cs in *Perna viridis*. *Philipp Nucl J*. **13**:77-79.
23. Teresa Yulo-Nazarea, Ma. Lucia C. Cobar, **Alejandro Q. Nato, Jr.**, and Apolinario D. Nazarea. 2001. Somatic mutation in peripheral blood lymphocytes among Metro Manila residents: Indicator of exposure to environmental pollution. *Philipp Nucl J*. **13**:11-22.

Book Chapters

None

Tools and Resources

1. **Alejandro Q. Nato, Jr.**, Nicola H. Chapman, Harkirat K. Sohi, Hiep D. Nguyen, Zoran Brkanac, and Ellen M. Wijsman. 2015. PBAP: A pipeline for family-based quality control of pedigree structures and dense genetic marker data. https://faculty.washington.edu/wijsman/progdists/pbap/pbap_v1.00.tar.gz.

2. **Alejandro Q. Nato, Jr.**, Steven Buyske, and Tara C. Matise. Rutgers Map Interpolator. 2012. http://compgen.rutgers.edu/map_interpolator.shtml. Designed this web tool with Fang Chen for Build 36 under Dr. Tara Matise. (I upgraded this in 2017 to handle both Builds 36 and 37.3 and can now give results for hundreds thousands of physical positions in a few minutes.)
3. **Alejandro Q. Nato, Jr.**, Xiangyang Kong, Fang Chen, Bruce Byrne, Joseph Naus, Chi-Hua Chiu, Steven Buyske, Linda M. Brzustowicz, and Tara C. Matise. 2011. Genomic characterization of schizophrenia candidate gene regions. <http://compgen.rutgers.edu/schiz.shtml>. Includes SCR Search Tool.
4. **Alejandro Q. Nato, Jr.**, Bo Li, Fang Chen, James H. Millonig, and Tara C. Matise. 2011. A bioinformatics approach for the identification of developmental QTL candidate genes. http://compgen.rutgers.edu/devQTL_main.shtml.
5. **Alejandro Q. Nato, Jr.** and Tara C. Matise. 2010. Human and mouse gene catalogue. <http://compgen.rutgers.edu/gene.shtml>. (updated when there is a new fully patched genome assembly)
6. Department of Genetics, Rutgers University. 2008. <http://lifesci.rutgers.edu/~genetics>. Designed the website as a member of the Website Development Committee of the RU-Department of Genetics (2006-2008). This was replaced by the current version (<http://genetics.rutgers.edu>) developed in 2009 where I was no longer a part of the committee.

Technical Reports and other Publications

1. **Alejandro Q. Nato, Jr.**, Sheila C. Sajise, and Custer C. Deocaris. 2002. Low incidence of germline mutation in *BRCA1* exon 11 among early-onset and familial Filipino breast cancer patients. *INIS*. **33**(47): RN 33064734.
2. Custer C. Deocaris and **Alejandro Q. Nato, Jr.** 2001. Nuclear energy in the post-genomic era. *Proceedings of the Korean Nuclear Society (KNS) Autumn Meeting*, Seoul, Korea. 79-88. 26 October 2001.
3. **Alejandro Q. Nato, Jr.**, Sheila C. Sajise, and Custer C. Deocaris. 2002. Radioactive PTT as part of screening protocol for prospecting radiation workers. *INIS*. **33**(47): RN 33064733. Also in *Proceedings of the International Youth Nuclear Congress 2002*, Daejeon, Korea. 16-20 April 2002.
4. Teresa Yulo-Nazarea, **Alejandro Q. Nato, Jr.**, and Carol B. Coloma. 1999. AFLP-PCR molecular screening of Co-60 gamma radiation induced variant of *Murraya exotica* and *Dracaena sanderiana*. *PNRI 1999 Technical Progress Report (INIS. 32*(19): RN 32020574), 15-24.
5. Emerenciana B. Duran, Teresa Yulo-Nazarea, Teofilo Y. Garcia, Cecilia M. de Vera, Rolando Y. Reyes, **Alejandro Q. Nato, Jr.**, and Antonio A. Asada, Jr. 1999. Radiological surveillance report: Clark Special Economic Zone. *PNRI 1999 Technical Progress Report (INIS. 32*(19): RN 32020574), 45-49.
6. Emerenciana B. Duran, Teresa Yulo-Nazarea, Cecilia M. de Vera, Teofilo Y. Garcia, Fe M. dela Cruz, Lorna Jean H. Palad, Eliza B. Enriquez, **Alejandro Q. Nato, Jr.**, Maria Lucia C. Cobar, Antonio A. Asada, Jr., and Javier M. Eduardo. 1999. CTBTO radionuclide monitoring station (RN-52) in the Philippines. *PNRI 1999 Technical Progress Report (INIS. 32*(19): RN 32020574), 50-52.
7. Teresa Yulo-Nazarea and **Alejandro Q. Nato, Jr.** 1996. Biological markers for radiation injury: A chromogenic test for irradiated Oriental fruit fly, *Bactrocera philippinensis*, as

- quarantine diagnostic kit. *PNRI 1996 Technical Progress Report (INIS. 29(27): RN 29036447)*, 119-129.
8. Emerenciana B. Duran, Cecilia M. de Vera, Teofilo Y. Garcia, Fe M. dela Cruz, **Alejandro Q. Nato, Jr.**, Dante E. Margate, and Antonio A. Asada, Jr. 1996. Environmental radioactivity measurements in the Philippines. *PNRI 1996 Technical Progress Report (INIS. 29(27): RN 29036447)*, 137-143.
 9. Custer C. Deocaris, **Alejandro Q. Nato, Jr.**, Apolinario D. Nazarea, and Angel B. Mateo. 1996. 'Winged' hypermutated epitopic mimetics of VP1 (135-146): A novel molecular design for broad spectrum, multivalent synthetic vaccines for the foot-and-mouth disease virus serotype A. *Recent Research Developments in Buffalo Production - Proceedings of the 2nd Asian Buffalo Association Congress*. Shangri-la Hotel, Makati City, PHILIPPINES. 9-12 October 1996. 181-192.
 10. Teresa Yulo-Nazarea, **Alejandro Q. Nato, Jr.**, and Javier M. Eduardo. 1995. Detection method for irradiated Oriental fruit fly (*Bactrocera philippinensis*) for quarantine purposes. *PNRI 1995 Technical Progress Report (INIS. 28(13): RN 28043698)*, 131-135.
 11. Teresa Yulo-Nazarea and **Alejandro Q. Nato, Jr.** 1994. Detection method for irradiated oriental fruit fly (*Dacus dorsalis*) for quarantine purposes. *INIS. 26(13): RN 26046798*.
 12. Teresa Yulo-Nazarea, Ma. Lucia C. Cobar, Marla A. Endriga, Efren J. Sta. Maria, **Alejandro Q. Nato, Jr.**, Javier M. Eduardo, and Romy Dy. 1994. Somatic mutation in peripheral blood lymphocytes among Metro Manila residents: Indicator of exposure to environmental pollution. *INIS. 26(13): RN 26046988*.

Manuscripts submitted

1. Khalid Kunji, Ehsan Ullah, **Alejandro Q. Nato, Jr.**, Ellen M. Wijsman, and Mohamad Saad. GIGI-Quick: A fast approach to impute missing genotypes in genome-wide association family data. [submitted; under review]
2. Ehsan Ullah, Khalid Kunji, **Alejandro Q. Nato, Jr.**, Ellen M. Wijsman, and Mohamad Saad. Kstat2: An Efficient EM Algorithm to Estimate Kinship Coefficients in Genetic Data. [submitted; under review]
3. Elizabeth Blue, ..., **Andrew Nato**, *et al.* Genetic variation in genes underlying diverse dementias may explain a small proportion of cases in the Alzheimer's Disease Sequencing Project. [submitted]

Professional Presentations

Presentations (Nato presented)

1. **Alejandro Q. Nato, Jr.**, Nicola H. Chapman, Harkirat K. Sohi, Hiep D. Nguyen, Zoran Brkanac, and Ellen M. Wijsman. 2016. Pedigree-based analysis pipeline. *ARD Lecture Series*. PNRI, Dliman, Quezon City, Philippines. 22 November 2016.
2. **Alejandro Q. Nato, Jr.**, Nicola H. Chapman, Harkirat K. Sohi, Bowen Wang, Hiep D. Nguyen, Joseph M. Viscochil, Hilary Coon, and Ellen M. Wijsman. 2016. Identification of candidate genes for IQ discrepancy in extended families with autism using whole exome sequencing data. *ARD Lecture Series*. PNRI, Dliman, Quezon City, Philippines. 22 November 2016.

3. **Alejandro Q. Nato, Jr.**, Fang Chen, Xiangyang Kong, Bruce Byrne, Joseph Naus, Chi-Hua Chiu, Steven Buyske, Linda M. Brzustowicz, and Tara C. Matise. 2008. Genomic characterization of schizophrenia candidate gene regions. *Genetics Departmental Retreat*. New Brunswick, NJ, USA. 22 May 2008.
4. **Alejandro Q. Nato, Jr.**, Xiangyang Kong, Chunsheng He, Anthony M. Cui, Linda M. Brzustowicz, and Tara C. Matise. 2006. Genomic characterization of schizophrenia candidate gene regions. *ARD Lecture Series*. PNRI, Diliman, Quezon City, Philippines. 25 August 2006.
5. **Alejandro Q. Nato, Jr.** 2003. Country Report for the IAEA/RCA Project Formulation Meeting on Improving Regional Capacity for Assessment, Planning and Responding to Aquatic Environmental Emergencies. *Australian Nuclear Science and Technology Organization*, Lucas Heights, NSW, Australia. 21-25 July 2003.
6. Alejandro Q. Nato, Jr. 2003. Search for heritable mutated breast cancer genes among Filipinos by nuclear and molecular techniques: the *BRCA1* example. *ARD Lecture Series*. PNRI, Diliman, Quezon City, Philippines. 8 April 2003.
7. **Alejandro Q. Nato, Jr.**, Sheila C. Sajise, and Custer C. Deocaris. 2002. Bayesian probability modeling for *BRCA1* mutation among early-onset and familial Filipino breast cancer cases. *During the 29th PSBMB Annual Convention* from 5-6 December 2002. SEARCA Auditorium, UP Los Baños, College, Laguna, Philippines.
8. Teresa Yulo-Nazarea, **Alejandro Q. Nato, Jr.**, and Carol B. Coloma. 2002. AFLP-based characterization of ornamental crops and foliage plants with their radiation-induced variants. *Short presentation for the FAO/IAEA Interregional Training Course on Mutant Germplasm Characterization using Molecular Markers II* from 4-29 November 2002. FAO/IAEA Agriculture and Biotechnology Laboratory, Seibersdorf, Austria.
9. **Alejandro Q. Nato, Jr.** 1998. *BRCA1* PTT: A definite eye opener for early detection of breast cancer? *During the 1st Philippine Breast Cancer Congress* from 29-30 October 1998. Miriam College, Katipunan Avenue, Quezon City, Philippines.
10. **Alejandro Q. Nato, Jr.** 1996. Country Report for the JICA/JCAC Group Training Course in Environmental Radioactivity Analysis and Measurement. *Japan Chemical Analysis Center*, Chiba, Japan. 10 September-20 October 1996.

*Presentations (Co-authored; *Presenter)*

1. Shahzad Ahmad*, Najaf Amin, Elizabeth Blue, Sven Van Der Lee, **Alejandro Q. Nato**, Harkirat Sohi, Bowen Wang, Eric Boerwinkle, Anita L. DeStefano, Ellen Wijsman, and Cornelia M. Van Duijn. 2016. Genome wide linkage analysis identifies novel candidate genes for Alzheimer's disease. *During the Annual Alzheimer's Association International Conference*, Toronto, Ontario, Canada. 24-28 July 2016. [*Alzheimer's & Dementia*. **12**(7):196.]
2. **Alejandro Q. Nato, Jr.**, Xiangyang Kong, Fang Chen, Steven Buyske, Chunsheng He, Chi-Hua Chiu, Linda M. Brzustowicz, and Tara C. Matise*. **Genomic characterization of schizophrenia candidate gene regions**. *During the Gordon Research Conference: Human Genetics and Genomics*, Salve Regina University, Newport, RI, USA. 22-27 July 2007.
3. **Alejandro Q. Nato, Jr.**, Sheila C. Sajise, and Custer C. Deocaris*. 2002. Radioactive PTT as part of screening protocol for prospecting radiation workers. *During the International Youth Nuclear Congress 2002*, Daejeon, Korea. 16-20 April 2002.
4. Avelina G. Lapade*, Teresa Yulo-Nazarea, Ana Maria S. Veluz, Lucia J. Marbella, **Alejandro Q. Nato, Jr.**, Carol B. Coloma, and Manny G. Rama. 2001. Mutation breeding in ornamentals.

- During the Technical Sessions of the 29th Atomic Energy Week* on 11 December 2001. PNRI, Quezon City, Philippines.
5. Custer C. Deocaris* and **Alejandro Q. Nato, Jr.** 2001. Nuclear energy in the post-genomic age. *During the Asian Young Generation Workshop* (Theme: The Current and Future of Nuclear Energy in Asia) from 24-26 October 2001. Khunghee University, Suwon, Korea.
 6. Avelina G. Lapade*, Teresa Yulo-Nazarea, Ana Maria S. Veluz, Lucia J. Marbella, **Alejandro Q. Nato, Jr.**, Carol B. Coloma, and Apolinar B. Asencion. 2001. Status of biotechnology with emphasis on molecular techniques for mutation breeding in the Philippines. *During the Forum for Nuclear Cooperation in Asia Workshop for Plant Mutation Breeding: Molecular Biological Techniques for Mutation Breeding* from 20-24 August 2001. Bangkok, Thailand.
 7. Teresa Yulo-Nazarea*, **Alejandro Q. Nato, Jr.**, and Carol B. Coloma. 2001. AFLP-PCR fingerprints of ⁶⁰Co γ radiation-induced variants of *Murraya exotica* and *Dracaena sanderiana*. *During the 17th Philippine Chemistry Congress* from 23-25 May 2001. Xavier Sports and Country Club, Cagayan de Oro City, Philippines.
 8. Emerenciana B. Duran*, Eliza B. Enriquez, Cecilia M. De Vera, Carol B. Coloma, **Alejandro Q. Nato, Jr.**, Teresa Yulo-Nazarea, and Ma. Lucia C. Cobar. 2001. Asia-Pacific marine radioactivity database (ASPAMARD). *During the 17th Philippine Chemistry Congress* from 23-25 May 2001. Xavier Sports and Country Club, Cagayan de Oro City, Philippines.
 9. Custer C. Deocaris*, Argentina S. Casino, Ma. Katrina G. Braullo, Joselito E. Muldera, Melvin F. Estonactoc, Gavino Rommel A. Cureg, and **Alejandro Q. Nato, Jr.** 2001. Can bovine sperm be preserved at room temperature? A proof of concept. *During the 38th Annual Convention of the Philippine Society of Animal Science (PSAS)* from 18-19 October 2001. Heritage Hotel, Metro Manila, Philippines.
 10. Custer C. Deocaris*, Maria Cereza R. Velasco, Earl Louis Sempio Junie B. Billones and **Alejandro Q. Nato, Jr.** 2001. Molecular evolution of the mad cow's disease: Co-evolution theory of prions and prion-targets. *Proceedings of the PSAS 38th Annual Convention* from 18-19 October 2001. Manila, Philippines.
 11. Emerenciana B. Duran*, Teresa Yulo-Nazarea, Teofilo Y. Garcia, Cecilia M. de Vera, Rolando R. Reyes, **Alejandro Q. Nato, Jr.**, and Antonio A. Asada, Jr. 1999. Radiation measurement at the Clark Special Economic Zone. *During the 39th Radioisotope of the Philippines Annual Convention*, Manila, Philippines.
 12. Teresa Yulo-Nazarea*, **Alejandro Q. Nato, Jr.**, and Carol B. Coloma. 1999. AFLP-PCR molecular screening of ⁶⁰Co γ radiation-induced variants of selected ornamental and foliage plants (PHI/5/027). *Report to IAEA Expert (Shri Mohan Jain)* on 23 November 1999. PNRI, Quezon City, Philippines.
 13. Avelina G. Lapade*, Teresa Yulo-Nazarea, Ana Maria S. Veluz, Lucia J. Marbella, **Alejandro Q. Nato, Jr.**, and Carol B. Coloma. 1999. Use of radiation-induced mutations and biotechnology for the development of new varieties of foliage and cutflower ornamentals. *During the FAO/IAEA Seminar on Mutation Techniques and Molecular Genetics for Tropical and Subtropical Plant Improvement in Asia and the Pacific Region* from 11-15 October 1999. ACCEED Conference Center, Makati City, Philippines. [with extended abstract]
 14. Custer C. Deocaris*, **Alejandro Q. Nato, Jr.**, Apolinario D. Nazarea, and Angel B. Mateo. 1997. Development of a rational approach in synthetic vaccine engineering subverting antigen drifts of the FMDV. *During the 64th Annual Convention of the Philippine Veterinary Medicine Association (PVMA)* from 19-21 February 1997. Cebu Plaza Hotel, Cebu City, Philippines. [with extended abstract]

15. Custer C. Deocaris*, **Alejandro Q. Nato, Jr.**, Apolinario D. Nazarea, and Angel B. Mateo. 1996. 'Winged' hyper-mutated epitopic mimetics of VP1 (135-146): A novel molecular design for broad spectrum, multivalent synthetic vaccines for the foot-and-mouth disease virus serotype A. *During the Second Asian Buffalo Congress (ABA)* from 9-12 October 1996. Shangri-La Hotel, Makati City, Philippines.

Echo-Seminars

1. **Alejandro Q. Nato, Jr.** 1999. Radiation Protection (Dose Assessment): Environmental Risk Assessment and 3D Modeling. *Echo Seminar (IAEA Fellow)*. PNRI, Diliman, Quezon City, Philippines. 27 October 1999.
2. **Alejandro Q. Nato, Jr.** 1998. Environmental Radioactivity Analyses in Japan. *Echo Seminar (JICA Fellow)*. PNRI, Diliman, Quezon City, Philippines. 18 March 1998.

Posters (Nato presented)

1. **Alejandro Q. Nato, Jr.**, Nicola H. Chapman, Harkirat K. Sohi, Bowen Wang, Hiep D. Nguyen, Joseph M. Viscochil, Hilary Coon, and Ellen M. Wijsman. 2016. Identification of candidate genes for IQ discrepancy in extended families with autism using whole exome sequencing data: An update. *American Society of Human Genetics (ASHG) 66th Annual Meeting*. Vancouver Convention Centre, Vancouver, BC V6C 0C3, CANADA. 18-22 October 2016.
2. **Alejandro Q. Nato, Jr.**, Nicola H. Chapman, Harkirat K. Sohi, Joseph M. Viscochil, Hilary Coon, and Ellen M. Wijsman. 2015. Identification of candidate genes for IQ discrepancy in extended families with autism using whole exome sequencing data. *American Society of Human Genetics (ASHG) 65th Annual Meeting*. Baltimore Convention Center, Baltimore, MD, USA. 6-10 October 2015.
3. **Alejandro Q. Nato, Jr.**, Nicola H. Chapman, Harkirat K. Sohi, Raphael A. Bernier, Joseph M. Viscochil, Hilary Coon, and Ellen M. Wijsman. 2014. Linkage analysis of IQ discrepancy in autism: an attempt to replicate. *American Society of Human Genetics (ASHG) 64th Annual Meeting*. San Diego Convention Center, San Diego, CA, USA. 18-22 October 2014.
4. **Alejandro Q. Nato, Jr.**, Nicola H. Chapman, Charles Y. K. Cheung, Zoran Brkanac, and Ellen M. Wijsman. 2013. PBAP: A pipeline for family-based quality control of pedigree structures and dense genetic marker data. *Statistical and Quantitative Genetics Conference*. UW Tower Auditorium, Seattle, WA, USA. 24-26 November 2013.
5. **Alejandro Q. Nato, Jr.**, Nicola H. Chapman, Charles Y. K. Cheung, Zoran Brkanac, and Ellen M. Wijsman. 2013. PBAP: A pipeline for family-based quality control of pedigree structures and dense genetic marker data. *ASHG 63rd Annual Meeting*. Boston Convention and Exhibition Center, Boston, MA, USA. 22-26 October 2013.
6. **Alejandro Q. Nato, Jr.**, Bo Li, Fang Chen, James H. Millonig, and Tara C. Matise. 2012. A bioinformatics approach for the identification of developmental QTL candidate genes. *ASHG 62nd Annual Meeting*. Moscone Center, San Francisco, CA, USA. 6-10 October 2012.
7. **Alejandro Q. Nato, Jr.**, Xiangyang Kong, Bruce Byrne, Joseph Naus, Derek Gordon, Steven Buyske, Linda M. Brzustowicz, and Tara C. Matise. 2012. Genomic characterization of schizophrenia candidate gene regions. *Brain Health Institute Inaugural Neuroscience Poster Session and Reception*. Life Sciences Building, Rutgers University, Piscataway, NJ, USA. 24 April 2012.

8. **Alejandro Q. Nato, Jr.**, Steven Buyske, and Tara C. Matise. 2012. The Rutgers map: A third-generation combined linkage-physical map of the human genome. *Human Genetics Institute of New Jersey Second Research Day*. Life Sciences Building, Rutgers University, Piscataway, NJ, USA. 18 April 2012.
9. **Alejandro Q. Nato, Jr.**, Xiangyang Kong, Bruce Byrne, Joseph Naus, Derek Gordon, Steven Buyske, Linda M. Brzustowicz, and Tara C. Matise. 2011. Genomic characterization of schizophrenia candidate gene regions. *3rd Annual Postdoc Appreciation Day Symposium*. West Lecture Hall, UMDNJ-Robert Wood Johnson Medical School, Piscataway, NJ, USA. 22 September 2011.
10. **Alejandro Q. Nato, Jr.**, Xiangyang Kong, Bruce Byrne, Joseph Naus, Derek Gordon, Steven Buyske, Linda M. Brzustowicz, and Tara C. Matise. 2011. Genomic characterization of schizophrenia candidate gene regions. *Brain Health Institute Inaugural Symposium*. Life Sciences Building, Rutgers University, Piscataway, NJ, USA. 6 July 2011.
11. **Alejandro Q. Nato, Jr.**, Xiangyang Kong, Bruce Byrne, Joseph Naus, Derek Gordon, Steven Buyske, Linda M. Brzustowicz, and Tara C. Matise. 2011. Genomic characterization of schizophrenia candidate gene regions. *Human Genetics Institute of New Jersey First Research Day*. Life Sciences Building, Rutgers University, Piscataway, NJ, USA. 1 April 2011.
12. **Alejandro Q. Nato, Jr.**, Xiangyang Kong, Bruce Byrne, Joseph Naus, Chi-hua Chiu, Steven Buyske, Linda M. Brzustowicz, and Tara C. Matise. 2009. Genomic characterization of schizophrenia candidate gene regions. *ASHG 59th Annual Meeting*. Hawaii Convention Center, Honolulu, HI, USA. 20-24 October 2009.
13. **Alejandro Q. Nato, Jr.**, Fang Chen, Xiangyang Kong, Chunsheng He, Chi-hua Chiu, Linda M. Brzustowicz, and Tara C. Matise. 2007. Genomic characterization of schizophrenia candidate gene regions. *ASHG 57th Annual Meeting*. San Diego Convention Center, San Diego, CA, USA. 23-27 October 2007.
14. **Alejandro Q. Nato, Jr.**, Xiangyang Kong, Fang Chen, Chunsheng He, Chi-hua Chiu, Linda M. Brzustowicz, and Tara C. Matise. 2007. Genomic characterization of schizophrenia candidate gene regions. *New York Psychiatric Genetics Meeting at Cold Spring Harbor Laboratory*. Cold Spring Harbor, NY, USA. 27 June 2007.
15. **Alejandro Q. Nato, Jr.**, Xiangyang Kong, Chunsheng He, Anthony M. Cui, Linda M. Brzustowicz, and Tara C. Matise. 2006. Genomic characterization of schizophrenia candidate gene regions. *Genetics Departmental Retreat*. Piscataway, NJ, USA. 12 May 2006.
16. Teresa Yulo-Nazarea, **Alejandro Q. Nato, Jr.**, and Carol B. Coloma. 2001. AFLP-PCR fingerprints of ⁶⁰Co γ radiation-induced variants of *Murraya exotica* and *Dracaena sanderiana*. *Proceedings of the 17th Philippine Chemistry Congress*. Xavier Sports and Country Club, Cagayan de Oro City, Philippines. 23-25 May 2001.
17. Teresa Yulo-Nazarea, **Alejandro Q. Nato, Jr.**, and Carol B. Coloma. 2000. DNA fingerprinting of ⁶⁰Co γ radiation-induced variants of foliage plants using AFLP-PCR. *National Academy of Science & Technology 22nd Scientific Meeting* from 5-6 July 2000. Manila Hotel, Manila, Philippines.
18. Teresa Yulo-Nazarea and **Alejandro Q. Nato, Jr.** 1998. A chromogenic diagnostic kit for the radiosensitive tyrosinase enzyme in oriental fruit fly *Bactrocera philippinensis*. *25th Atomic Energy Week Celebration* from 7-11 December 1998. PNRI, Diliman, Quezon City, Philippines.
19. Teresa Yulo-Nazarea and **Alejandro Q. Nato, Jr.** 1997. A chromogenic diagnostic kit for the radiosensitive tyrosinase enzyme in oriental fruit fly *Bactrocera philippinensis*. *National*

- Academy of Science & Technology 19th Annual Scientific Meeting* from 9-10 July 1997. Westin Philippine Plaza Hotel, Pasay City, Philippines.
20. Custer C. Deocaris, **Alejandro Q. Nato, Jr.**, Apolinario D. Nazarea, and Angel B. Mateo. 1997. Epitomorphic combipeptides targeting the antigenic diversity of the VP1 polyprotein (135-146) of the foot-and-mouth disease virus serotype A. *National Academy of Science & Technology 19th Annual Scientific Meeting* from 9-10 July 1997. Westin Philippine Plaza Hotel, Pasay City, Philippines.
 21. Teresa Yulo-Nazarea and **Alejandro Q. Nato, Jr.** A chromogenic test for irradiated oriental fruit fly *Bactrocera philippinensis*, as a quarantine diagnostic kit. *Second Philippine Nuclear Congress* from 10-12 December 1996. Manila Midtown Hotel, Manila, Philippines.
 22. Teresa Yulo-Nazarea and **Alejandro Q. Nato, Jr.** Gs-protein: A tyrosinase enzyme from *Bactrocera philippinensis*. *Atomic Energy Week* from 11-15 December 1995. PNRI, Diliman, Quezon City, Philippines.
 23. Teresa Yulo-Nazarea and **Alejandro Q. Nato, Jr.** Gs-protein: A radiation sensitive enzyme in oriental fruit fly (*Bactrocera sp.*). *6th Asian Chemical Congress / 11th Philippine Chemistry Congress* from 22-23 May 1995. Philippine Village Hotel, Manila, Philippines.
 24. Alejandro Q. Nato, Jr and Apolinario D. Nazarea. Design of multivalent synthetic peptide vaccines against infectious laryngotracheitis virus and equine herpesviruses 1 and 4. *19th National Convention of PSBMB* on 03 December 1994. MSI, UP Diliman, Quezon City, Philippines (*undergraduate category*).
 25. Teresa Yulo-Nazarea and **Alejandro Q. Nato, Jr.** Gs-protein: A radiation sensitive gene product of oriental fruit fly (*Dacus dorsalis*). *19th National Convention of PSBMB* on 03 December 1994. MSI, UP Diliman, Quezon City, PHILIPPINES (*graduate category*) / *Atomic Energy Week* from 12-16 December 1994. PNRI, Diliman, Quezon City, Philippines.

*Posters (Co-authored; *Presenter)*

1. Anthony M. Musolf*, Douglas Londono, **Alejandro Q. Nato, Jr.**, Philippe Vuistiner, January Brandon, John A. Herring, Carol A. Wise, Hong Zou, Meilei Jin, Lei Yu, Stephen J. Finch, Pascal Bovet, Murielle Bochud, Tara C. Matise, and Derek Gordon. 2014. A new approach to finding association with complex, longitudinal phenotypes using population data. *ASHG 64th Annual Meeting*. San Diego Convention Center, San Diego, CA, USA. 18-22 October 2014.
2. Anthony M. Musolf*, Douglas Londono, **Alejandro Q. Nato, Jr.**, Philippe Vuistiner, Carol A. Wise, Lei Yu, Stephen J. Finch, Pascal Bovet, Murielle Bochud, Tara C. Matise, and Derek Gordon. 2013. Slicing the genome: a new approach to association in complex, longitudinal diseases. *ASHG 63rd Annual Meeting*. Boston Convention and Exhibition Center, Boston, MA, USA. 22-26 October 2013.
3. Anthony M. Musolf*, Douglas Londono, **Alejandro Q. Nato, Jr.**, Philippe Vuistiner, Carol A. Wise, Lei Yu, Stephen J. Finch, Pascal Bovet, Murielle Bochud, Tara C. Matise, and Derek Gordon. 2013. Slicing the genome: a new approach to association in complex, longitudinal diseases. *IGES 22nd Annual Conference*. Chicago Magnificent Mile, Chicago, IL, USA. 15-17 September 2013.
4. Gowri Kumaraguruparan, Gaurang Mehta, **Alejandro Q. Nato, Jr.**, Jose Luis Ambite, Steven Buyske, Rajiv Mayani, Congxing Cai, Jens S. Vockler, Ewa Deelman, and Tara C. Matise. 2012. Curating genomic epidemiology data in The PAGE Study. *ASHG 62nd Annual Meeting*. Moscone Center, San Francisco, CA, USA. 6-10 October 2012.

5. Bo Li, Paul Matteson, Myka Ababon, **Alejandro Q. Nato, Jr.**, Tara C. Matise, Vikas Nanda, and James H. Millonig. 2012. A bioinformatics approach for the identification of developmental QTL candidate genes. *ASHG 62nd Annual Meeting*. Moscone Center, San Francisco, CA, USA. 6-10 October 2012.
6. **Alejandro Q. Nato, Jr.**, Xiangyang Kong, Bruce Byrne, Joseph Naus, Derek Gordon, Steven Buyske*, Linda M. Brzustowicz, and Tara C. Matise. 2011. Genomic characterization of schizophrenia candidate gene regions. *12th ICHG Meeting/ASHG 61st Annual Meeting*. Palais des Congrès de Montréal Convention Center, Montréal, QC, Canada. 11-15 November 2011.
7. Tara C. Matise, **Alejandro Q. Nato, Jr.**, and Steven Buyske. 2011. The Rutgers map: A third-generation combined linkage-physical map of the human genome. *12th ICHG Meeting/ASHG 61st Annual Meeting*. Palais des Congrès de Montréal Convention Center, Montréal, QC, Canada. 11-15 November 2011. (Presented by Anthony M. Musolf*)
8. Bo Li*, Paul G. Matteson, **Alejandro Q. Nato, Jr.**, Tara C. Matise, Vikas Nanda, and James H. Millonig. 2011. Vacuolated lens (*vl*): a multigenic mouse mutant model of Neural Tube Defects (NTDs). *25th Anniversary CABM Symposium*. Main Lecture Hall, UMDNJ-Robert Wood Johnson Medical School, Piscataway, NJ, USA. 21 October 2011.
9. Bo Li*, Paul G. Matteson, **Alejandro Q. Nato, Jr.**, Tara C. Matise, and James H. Millonig. 2011. Vacuolated lens (*vl*): a multigenic mouse mutant model of Neural Tube Defects (NTDs). *Genetics Society of America: Mouse Genetics 2011 (GSA 2011)*. Omni Shoreham Hotel, Washington, DC, USA. 22-25 June 2011.
10. Bo Li*, Paul G. Matteson, **Alejandro Q. Nato, Jr.**, Tara C. Matise, and James H. Millonig. 2010. Investigating the molecular genetic basis of the vacuolated lens (*vl*) mouse mutant. *Joint Molecular Biosciences Graduate Student Association 4th Annual Symposium*. Life Sciences Building, Rutgers University, Piscataway, NJ, USA. 12 March 2010.
11. Elmer-Rico E. Mojica, Custer C. Deocaris, Jose Rene L. Micor, **Alejandro Q. Nato, Jr.**, and Jaderick P. Pabico*. 2004. Solving hard computational problems via *in silico* molecular catalysis. *National Academy of Science & Technology 26th Annual Scientific Meeting* from 14-15 July 2004. Manila, Philippines.
12. Jaderick P. Pabico*, Elmer-Rico E. Mojica, Jose Rene L. Micor, **Alejandro Q. Nato, Jr.**, and Custer C. Deocaris. 2004. Solving hard computational problems by *in silico* molecular catalysis. *PA49, International Conference on Molecular Simulation - Computational Science Workshop 2004*. Tsukuba, Japan. 13-15 January 2004.
13. Custer C. Deocaris*, **Alejandro Q. Nato, Jr.**, Diane M. Liu, Joaquin V. Moreno, and Apolinario D. Nazarea. 2003. Molecular design of multivalent synthetic vaccines against biological warfare (BW) agents. *National Academy of Science & Technology 25th Scientific Meeting* from 9-10 July 2003. Manila Hotel, Manila, Philippines.
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15. Sheila C. Sajise*, **Alejandro Q. Nato, Jr.**, Custer C. Deocaris, and Cynthia P. Saloma. 2002. Mutation screening in exon 15 of the adenomatous polyposis coli (*APC*) gene in Filipino FAP patients. *4th HUGO Pacific Meeting & 5th Asia-Pacific Conference on Human Genetics* from 21-30 October 2002. Chonburi, Thailand.

16. Sheila C. Sajise*, **Alejandro Q. Nato, Jr.**, Custer C. Deocarís, and Cynthia P. Saloma. 2002. Mutation in codon 1309 and early-onset of colorectal cancer in two Filipinos with FAP. *4th HUGO Pacific Meeting & 5th Asia-Pacific Conference on Human Genetics* from 21-30 October 2002. Chonburi, Thailand.
17. Rolando Y. Reyes*, Christina A. Petrache, Nardo Q. Garcia, Estrellita U. Tabora, Julie G. Juson, Teofilo Y. Garcia, and **Alejandro Q. Nato, Jr.** 2002. The application of vehicle borne and ground gamma ray spectrometry in environmental radioactivity survey and monitoring: Examples from the Philippines. *International Nuclear Conference 2002* from 15-18 October 2002. Kuala Lumpur, Malaysia.
18. Custer C. Deocarís, Argentina S. Casino, Ma. Katrina G. Braullo, Joselito E. Muldera, Melvin F. Estonactoc, Gavino Rommel A. Cureg, and **Alejandro Q. Nato, Jr.** 2001. Can bovine sperm be preserved at room temperature? A proof of concept. *Proceedings of the PSAS 38th Annual Convention*. Manila, Philippines. 18-19 October 2001. p.21. [with extended abstract]
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20. Emerenciana B. Duran, Eliza B. Enriquez, Cecilia M. De Vera, Carol B. Coloma, **Alejandro Q. Nato, Jr.**, Teresa Yulo-Nazarea, and Ma. Lucia C. Cobar. 2001. Asia-Pacific marine radioactivity database (ASPAMARD). *Proceedings of the 17th Philippine Chemistry Congress*. Xavier Sports and Country Club, Cagayan de Oro City, Philippines. 23-25 May 2001.
21. Custer C. Deocarís*, Peewee Marvin P. Gunay, Richmond R. Gregorio, Art Christian Y. Amurao, Mark Kim R. Zabala, Estrella B. Chico and **Alejandro Q. Nato, Jr.** 2000. Isolation and purification of α -lactalbumin from selected dairy products: Prospecting for potential anti-cancer agents with semblance to human multimeric alpha-Lactalbumin (huMAL). *Philippine Society of Biochemistry and Molecular Biology 37th Annual Convention* in December 2000. SEAFDEC Convention Center, Iloilo, Philippines.
22. Custer C. Deocarís*, Peewee Marvin P. Gunay, Richmond R. Gregorio, Art Christian Y. Amurao, Mark Kim R. Zabala, Estrella B. Chico and **Alejandro Q. Nato, Jr.** 2000. Isolation and purification of α -lactalbumin from selected dairy products: Prospecting for potential anti-cancer agents with semblance to human multimeric alpha-lactalbumin (huMAL). *Philippine Society of Animal Science 38th Annual Convention* from 18-19 October 2000. The Heritage Hotel, Manila, Philippines.
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