

# Curriculum Vitae

Last Updated: 07/10/2020

## **PERSONAL DATA**

Name: Cecinio C. Ronquillo, Jr.  
Birth Place: Philippines  
Citizenship: United States

## **EDUCATION**

<u>Years</u>	<u>Degree</u>	<u>Institution (Area of Study)</u>
2002 - 2006	B.S., B.A.	University of Toledo (Biology, Chemistry) Toledo, OH
2005 - 2006		University of Salford (Exchange Program) Manchester, England, United Kingdom
2006 - 2013	Ph.D.	University of Utah School of Medicine (Neuroscience) Salt Lake City, UT
2006 – 2015	M.D.	University of Utah School of Medicine (Medicine) Salt Lake City, UT
2015 - 2016		Intern, Internal Medicine, University of Utah School of Medicine Salt Lake City, UT
2016 – 2019		Ophthalmology Residency, John A. Moran Eye Center, University of Utah School of Medicine, Salt Lake City, UT
2018 – 2019		Chief Resident, John A. Moran Eye Center, University of Utah School of Medicine, Salt Lake City, UT
2019 - present		Vitreoretinal Surgery Fellow, John A. Moran Eye Center, University of Utah School of Medicine, Salt Lake City, UT

## **ACADEMIC HISTORY**

### **Ophthalmology/Visual Sciences, 07/01/2019 - Present**

07/01/2019 Hire, Visitor Track, Visiting Instructor

## **PROFESSIONAL EXPERIENCE**

### **Part-Time Positions**

2003 - 2004	Undergraduate Researcher, Department of Chemistry (Ronald Viola, Ph.D.), University of Toledo, Toledo, OH
2004	Undergraduate Researcher, Department of Chemistry (Daniel Stasko, Ph.D.), University of Toledo, Toledo, OH
2005	Undergraduate Researcher, Department of Biology, University of Utah, Salt Lake City, UT
2012 - 2014	Co-Founder, Chief Operating Officer, Navillum Nanotechnologies, Salt Lake City, UT

## **SCHOLASTIC HONORS**

2003 Huebner Scholarship (Honors Program), University of Toledo, Toledo, OH

2004	Catherine R. Foster Scholarship (Pre-medical), University of Toledo, Toledo, OH
2004	George C. Binke Scholarship (Chemistry), University of Toledo, Toledo, OH
2006	Emeritus Professor Harold Shaffer Outstanding Undergraduate in the Arts & Sciences, College of Arts & Sciences, University of Toledo, Toledo, OH
2006	Magna cum laude, Honors in Biology, University of Toledo, Toledo, OH
2006	Magna cum laude, Honors in Chemistry, University of Toledo, Toledo, OH
2009	Travel Grant Recipient, American Society for Clinical Investigation / Association of American Physicians
2012	Energy Efficiency Award, Cleantech Open Rocky Mountain Region, Denver, CO
2012	Sustainability Award, Cleantech Open Rocky Mountain Region, Denver, CO
2012	First Runner-Up, Energy Efficiency Category, Cleantech Open Global Forum, San Jose, CA
2013	Travel Grant Recipient, American Society for Clinical Investigation / Association of American Physicians
2013	Scholarship for Extreme Affordability Conference, University of Utah Global Health, Salt Lake City, UT
2015	Achievement Rewards for College Scientists (ARCS) Foundation Scholarship, John A. Moran Eye Center, University of Utah School of Medicine, Salt Lake City, UT
2019	Heed Ophthalmic Fellowship

### **ADMINISTRATIVE EXPERIENCE**

#### **Professional Organization & Scientific Activities**

2007 - 2014	Institutional Representative, American Physician Scientists Association
2009 - 2010	Vice Chair, American Physician Scientists Association, Annual Planning Committee
2009 - 2010	Member, American Physician Scientists Association, Executive Committee
2010 - 2011	Chair, American Physician Scientists Association, Annual Meeting Committee

### **PROFESSIONAL COMMUNITY ACTIVITIES**

2012 – 2015	Volunteer, Fourth Street Clinic, Eye Clinic
2018 – 2019	Volunteer, Fourth Street Clinic, Eye Clinic
2019 - present	Volunteer, Maliheh Clinic, Retina Clinic

### **UNIVERSITY COMMUNITY ACTIVITIES**

#### **University Hospitals & Clinics**

2013	Volunteer, John A. Moran Eye Center, Cataracts/Glaucoma Medical Mission, Cap-Haitien, Haiti
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### **CURRENT MEMBERSHIPS IN PROFESSIONAL SOCIETIES**

American Physician Scientists Association  
 Association for Research in Vision and Ophthalmology

### **FUNDING**

#### **Past Grants**

07/01/09 - 06/30/10	T32 CA093247 The Role of Macrophage Stimulating Protein in Breast Cancer Metastasis Principal Investigator: Cecinio C. Ronquillo, Jr.
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07/01/12 - 06/30/14 NIH Ruth L. Kirschstein Institutional National Research Service Award  
Role: Principal Investigator  
F31 1F31EY021972-01A1  
The Role of Nephrocystin-5 in Retinal Degeneration  
Principal Investigator: Cecinio C. Ronquillo, Jr.  
NIH Ruth L. Kirschstein Institutional National Research Service Award  
Role: Principal Investigator

## **TEACHING RESPONSIBILITIES/ASSIGNMENTS**

### **Courses Directed**

2011 - 2012 Course Coordinator/Lecturer, PHYS 3111: Physics, University of Utah

### **Course Lectures**

2007 - 2012 Senior Instructor, Wilderness First Responder Course, Wilderness Medicine of Utah

### **Educational Lectures**

#### Department/Division Conferences

- 2006 The Taxonomy of Conus Through Molecular Phylogenetics, Biological Sciences Symposium, University of Toledo
- 2011 Mutations in NPHP5 result in development of Senior-Løken syndrome, Vision Interest Group, John A. Moran Eye Center, University of Utah School of Medicine (Invited Speaker)
- 2012 A novel mouse model for Senior-Løken syndrome, Snowbird Neuroscience Symposium, University of Utah School of Medicine (Invited Speaker)
- 2016 Choroidal Melanoma, Orbit Conference, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine
- 2016 Treatment of Uveitic Cystoid Macular Edema in in Vitrectomized Eyes, Fluorescein Angiography Conference, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine
- 2017 Thyroid Eye Disease, Orbit Conference, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine
- 2017 Senior-Løken Syndrome: From Human Genetics to an Animal Model to Gene Therapy, Resident Alumni Day, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine
- 2017 Retinoschisis, Fluorescein Angiography Conference, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine
- 2017 Polypoidal Choroidal Vasculopathy, Fluorescein Angiography Conference, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine
- 2018 Lacrimal Gland Enlargement as a Sign of Thyroid Eye Disease, Orbit Conference, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine
- 2019 Acroporphyria: Does Retinal Iron Accumulation Cause Macular Degeneration, Resident Alumni Day, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine
- 2019 TB Granuloma, Fluorescein Angiography Conference, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine

- 2019 Druse, druse and more druse (Basal laminar drusen), Fluorescein Angiography Conference, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine
- 2019 Late Onset Retinitis Pigmentosa, Fluorescein Angiography Conference, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine
- 2020 Necrotizing Retinal Necroses, Fluorescein Angiography Conference, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine

#### **PEER-REVIEWED JOURNAL ARTICLES**

1. Tong Z, Yang Z, Patel S, Chen H, Gibbs D, Yang X, Hau VS, Kaminoh Y, Harmon J, Pearson E, Buehler J, Chen Y, Yu B, Tinkham NH, Zabriskie NA, Zeng J, Luo L, Sun JK, Prakash M, Hamam RN, Tonna S, Constantine R, **Ronquillo CC**, Sadda S, Avery RL, Brand JM, London N, Anduze AL, King GL, Bernstein PS, Watkins S, Jorde LB, Li DY, Aiello LP, Pollak MR, Zhang K (2008). Promoter polymorphism of the erythropoietin gene in severe diabetic eye and kidney complications. *Proc Natl Acad Sci U S A*, 105(19), 6998-7003.
2. Farukhi AM, Stagg BC, **Ronquillo C Jr**, Barlow WR Jr, Pettey JH, Olson RJ, Gupta I, Jensen JD (2014). Effect of phaco tip diameter on efficiency and chatter. *J Cataract Refract Surg*, 40(5), 811-7.
3. Kirk KR, **Ronquillo C Jr**, Jensen JD, Zaugg B, Barlow WR Jr, Stagg BC, Pettey JH, Olson RJ (2014). Optimum on-time duty cycle for micropulse technology. *J Cataract Refract Surg*, 40(9), 1545-8.
4. **Ronquillo CC Jr**, Zaugg B, Stagg B, Kirk KR, Gupta I, Barlow WR Jr, Pettey JH, Olson RJ (2014). Determining optimal torsional ultrasound power for cataract surgery with automatic longitudinal pulses at maximum vacuum ex vivo. *Am J Ophthalmol*, 158(6), 1262-1266.e2.
5. Jensen JD, Kirk KR, Gupta I, **Ronquillo C Jr**, Farukhi MA, Stagg BC, Pettey JH, Olson RJ (2015). Determining optimal ultrasound off time with micropulse longitudinal phacoemulsification. *J Cataract Refract Surg*, 41(2), 433-6.
6. Jiang L, Wei Y, **Ronquillo CC**, Marc RE, Yoder BK, Frederick JM, Baehr W (2015). Heterotrimeric kinesin-2 (KIF3) mediates transition zone and axoneme formation of mouse photoreceptors. *J Biol Chem*, 290(20), 12765-78.
7. Stagg BC, Gupta I, Cahoon J, **Ronquillo C Jr**, Shi D, Zaugg B, Gardiner G, Barlow WR Jr, Pettey JH, Aabid Farukhi M, Jensen J, Olson RJ (2015). Bent versus straight tips in micropulsed longitudinal phacoemulsification. *Can J Ophthalmol*, 50(5), 354-9.
8. Rao KN, Zhang W, Li L, **Ronquillo C**, Baehr W, Khanna H (2016). Ciliopathy-associated protein CEP290 modifies the severity of retinal degeneration due to loss of RPGR. *Hum Mol Genet*, 25(10), 2005-2012.
9. **Ronquillo CC**, Hanke-Gogokhia C, Revelo MP, Frederick JM, Jiang L, Baehr W (2016). Ciliopathy-associated IQCB1/NPHP5 protein is required for mouse photoreceptor outer segment formation. *FASEB J*, 30(10), 3400-3412.
10. Gupta I, Cahoon JM, Shi D, **Ronquillo CC Jr**, Gardiner G, Pettey JH, Barlow WR Jr, Farukhi A, Stagg BC, Zaugg B, Olson RJ (2017). The impact of tip bevel angulation on phacoemulsification efficiency and chatter. *New Frontiers in Ophthalmology*, 3(1), 1-3.
11. **Ronquillo CC**, Wegner K, Calvo CM, Bernstein PS (2018). Genetic Penetrance of Macular Telangiectasia Type 2. *JAMA Ophthalmol*, 136(10), 1158-1163.
12. **Ronquillo CC**, Sauer L, Morgan D, Heckzo JB, Creel DJ, Mamalis N, DeAnglelis MM, Hageman GS, Bernstein PS. Absence of Macular Degeneration in a Patient with Aceruloplasminemia. *Retina*. 2019 Sep; 39(9):1824-1828.
13. **Ronquillo CC**, Vegunta S, Ellis N, Mamalis N, Patel BCK. Adenoid Cystic Carcinoma of the Eyelid Can Locally Recur and Mimic Basal Cell Carcinoma: Case Report and Review of the

### **REVIEW ARTICLES**

1. **Ronquillo CC**, Bernstein PS, Baehr W (2012). Senior-Loken syndrome: a syndromic form of retinal dystrophy associated with nephronophthisis. [Review]. *Vision Res*, 75, 88-97.

### **BOOK CHAPTERS**

1. **Ronquillo CC Jr**, Stagg B (2013). Scleritis. In Stagg B, Ambati B (Eds.), *Diagnostic Ophthalmology (I-2-14)*. Salt Lake City: Amirsys, Inc.
2. **Ronquillo CC Jr**, Stagg B (2013). Peripheral Ulcerative Keratitis. In Stagg B, Ambati B (Eds.), *Diagnostic Ophthalmology (I-3-46)*. Salt Lake City: Amirsys, Inc.
3. **Ronquillo CC Jr**, Jorgensen A (2013). Gyrate Atrophy. In Stagg B, Ambati B (Eds.), *Diagnostic Ophthalmology (V-2-16)*. Salt Lake City: Amirsys, Inc.
4. **Ronquillo CC Jr** (2013). Sclera Overview. In Stagg B, Ambati B (Eds.), *Diagnostic Ophthalmology (I-3-2)*. Salt Lake City: Amirsys, Inc.
5. **Ronquillo CC Jr**, Stagg B (2013). Refractive Surgery Complications. In Stagg B, Ambati B (Eds.), *Diagnostic Ophthalmology (I-3-80)*. Salt Lake City: Amirsys, Inc.
6. **Ronquillo CC Jr**, Stagg B (2013). Optic Pit. In Stagg B, Ambati B (Eds.), *Diagnostic Ophthalmology (V-2-72)*. Salt Lake City: Amirsys, Inc.
7. **Ronquillo CC Jr**, Stagg B (2013). Optic Nerve Overview. In Stagg B, Ambati B (Eds.), *Diagnostic Ophthalmology (VII-1-4)*. Salt Lake City: Amirsys, Inc.
8. **Ronquillo CC Jr** (2013). Retina and Choroid Overview. In Stagg B, Ambati B (Eds.), *Diagnostic Ophthalmology (V-2-8)*. Salt Lake City: Amirsys, Inc.
9. **Ronquillo CC Jr**, Swan R (2013). Anisocoria. In Stagg B, Ambati B (Eds.), *Diagnostic Ophthalmology (VII-2-20)*. Salt Lake City: Amirsys, Inc.
10. **Ronquillo CC**, Passi SF, Ambati B (2014). Restoring Physiological Barriers Against Neovascularization. In RakoczyEP (Ed.), *Gene- and Cell-Based Treatment Strategies for the Eye*. Springer.

### **OTHER (Commentary/Letters/Editorials/Case Reports/Video/Film)**

#### **Newspaper**

1. **Ronquillo CC Jr**, Castillo-Ronquillo Y (2009). Nobel Prize in Medicine: Genetically engineered mice. *The Philippine Star*.

### **UNPUBLISHED POSTER PRESENTATIONS**

1. **Ronquillo CC**, Viola R (2003). *Expression, Purification and Characterization of an Essential Enzyme in Amino Acid Biosynthesis*. Poster session presented at National Conference on Undergraduate Research, Indianapolis, IN.
2. **Ronquillo CC**, Jorgensen E (2006). *Genetic Mapping of an unc-58 Suppressor Mutation*. Poster session presented at Medical Student Research Program / MD-PhD Retreat, University of Utah School of Medicine, Park City, UT.
3. **Ronquillo CC**, Zhang K (2007). *DKK3: Genetic Association with Proliferative Diabetic Retinopathy and End Stage Renal Disease*. Poster session presented at Medical Student Research Program / MD-PhD Retreat, University of Utah School of Medicine, Park City, UT.
4. **Ronquillo CC**, Welm A (2008). *Determining the utility of ALDH1 expression for isolation of cancer stem cells from breast cancer cell lines: A First Step in Unlocking the Mechanism of MSP in Breast Cancer Metastasis*. Poster session presented at Medical Student Research Program / MD-PhD Retreat, University of Utah School of Medicine, Park City, UT.

5. **Ronquillo CC**, Welm A (2009). *Macrophage stimulating protein may transiently increase a population of ALDH1A1high cells which in turn may be correlated to breast cancer cell lines' tumorigenicity and metastatic potential*. Poster session presented at American Society for Clinical Investigation / Association of American Physicians (ASCI/AAP) Annual Meeting, Chicago, IL.
6. **Ronquillo CC**, Welm A (2009). *Macrophage stimulating protein may transiently increase a population of ALDH1A1high cells which in turn may be correlated to breast cancer cell lines' tumorigenicity and metastatic potential [abstract also published in Cancer Res, May 1 2009, (69) (9 Supplement), 3080]*. Poster session presented at American Association for Cancer Research (AACR) 100th Annual Meeting, Denver, CO.
7. **Ronquillo CC**, Baehr W (2011). *Mutations in NPHP5 result in Senior-Løken Syndrome*. Poster session presented at Medical Student Research Program/ MD-PhD Retreat, University of Utah School of Medicine, Park City, UT.
8. **Ronquillo CC**, Baehr W (2012). *Absence of Nephrocystin-5 results in development of Senior-Løken Syndrome in the mouse*. Poster session presented at Medical Student Research Program / MD-PhD Retreat, University of Utah School of Medicine, Salt Lake City, UT.
9. **Ronquillo CC**, Baehr W (2012). *Establishing a mouse model for Senior-Løken syndrome*. Poster session presented at 15th Annual Vision Research Conference, Ft. Lauderdale, FL.
10. **Ronquillo CC**, Frederick JM, Baehr W (2013). *Nephrocystin-5 knockout mouse is a novel model of Senior-Løken Syndrome recapitulating both retina and renal pathologies [abstract also published in Investigative Ophthalmology & Visual Science, June 2013, Vol.54, 3149]*. Poster session presented at American Society for Clinical Investigation / Association of American Physicians (ASCI/AAP) Annual Meeting, Chicago, IL.
11. **Ronquillo C**, Morgan D, Creel D, Sawyer BL, DeAngelis M, Bernstein PS (2016). *Ten Year Follow-up of a Patient with Aceruloplasminemia*. Poster session presented at American Society of Retina Specialists (ASRS) Annual Meeting, San Francisco, CA.
12. Bernstein PS, **Ronquillo CC** (2018). *Macular Telangiectasia Type 2 (MacTel): Description of Superfamilies and Determination of Genetic Penetrance [e-poster]*. Poster session presented at American Society of Retina Specialists (ASRS) Annual Meeting, Vancouver, British Columbia, Canada.

## **ORAL PRESENTATIONS**

### **Meeting Presentations (Not Published Abstracts and Not Unpublished Posters)**

#### **International**

- |      |   |
|------|---|
| 2012 | <b>Ronquillo CC</b> . Navillum Nanotechnologies. Cleantech Open Global Forum, San Jose, CA  |
| 2013 | <b>Ronquillo CC</b> . Navillum Nanotechnologies. Rice Business Plan Competition, Rice Alliance for Technology and Entrepreneurship, Jesse H. Jones Graduate School of Business, Rice University, Houston, TX  |
| 2013 | <b>Ronquillo CC</b> , Frederick JM, Baehr W. Nephrocystin-5 knockout mice recapitulate retina and renal pathologies of Senior-Løken syndrome. Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Seattle, WA   |
| 2014 | Zaugg BE, <b>Ronquillo C Jr</b> , Stagg BC, Pettey JH, Barlow WR, Farukhi MA, Gupta I, Olson RJ. Determining Optimal Longitudinal Power Setting for Torsional Phacoemulsification Using Ex Vivo Bovine Lens Model. American Society of Cataract and Refractive Surgery (ASCRS) Annual Meeting, Boston, MA |
| 2017 | <b>Ronquillo CC</b> , Bernstein PS. Penetrance Estimation of Macular Telangiectasia Type 2 (MacTel) from Families in Utah and Idaho. Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Baltimore, MD  |
| 2017 | <b>Ronquillo CC</b> , Bernstein PS. Penetrance Estimation of Macular Telangiectasia   |

Type 2 (MacTel) from Families in Utah and Idaho. Macula Society Annual Meeting, Singapore

Local/Regional

- 2012 **Ronquillo CC.** Navillum Nanotechnologies. Technology Commercialization & Innovation Program, Utah Governor's Office of Economic Development, Salt Lake City, UT
- 2012 **Ronquillo CC.** Navillum Nanotechnologies. Cleantech Open Rocky Mountain Region, Denver, CO
- 2013 **Ronquillo CC.** Senior-Løken syndrome: a retina and renal disease. Utah Chapter of the Foundation Fighting Blindness, John A. Moran Eye Center, University of Utah School of Medicine, Salt Lake City, UT

**Invited/Visiting Professor Presentations**

National

- 2013 **Ronquillo CC.** A student's on-going trek in an MD/PhD program. College of Medicine and Department of Biochemistry Seminar, University of the Philippines Manila, Manila, Philippines
- 2019 **Ronquillo CC.** 15 Common Eye Problems and Misconceptions. FUSE General Assembly, Manila, Philippines

**Grand Rounds Presentations**

- Feb 2013 **Ronquillo CC.** Senior-Løken Syndrome: From Genetics to an Animal Model. Grand Rounds, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine, Salt Lake City, UT
- Aug 2014 **Ronquillo CC.** A new animal model for Senior-Løken syndrome. Grand Rounds, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine, Salt Lake City, UT
- Oct 2016 **Ronquillo CC.** Posterior Fossa Syndrome. Grand Rounds, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine, Salt Lake City, UT
- Apr 2017 **Ronquillo CC.** Macular Telangiectasia Type 2 (MacTel): Natural History and Genetics. Grand Rounds, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine, Salt Lake City, UT
- Jun 2018 **Ronquillo CC.** Choroideremia: Treating an Inherited Retinal Disease. Grand Rounds, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine
- Jun 2019 **Ronquillo CC.** I Can't See the Stars (Congenital Stationary Night Blindness), Grand Rounds, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine
- Jan 2020 **Ronquillo CC.** Advancements in Gene Therapy: Exploring the What, Why and How, Grand Rounds, Department of Ophthalmology & Visual Sciences, John A. Moran Eye Center, University of Utah School of Medicine

**OTHER SCHOLARLY ACTIVITIES**

**Other Scholarly Activities**

- 2013 Dissertation Defense, Interdisciplinary Neuroscience Program, University of Utah School of Medicine, Salt Lake City, UT  
*- Functional and morphological studies of the NPHP5 mouse model: insights into Senior-Løken syndrome*

