DANIELLE CUILLI

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Danielle Cuilli (née Schmid) is an ambitious, conscientious researcher with strengths in problem-solving, attention-to-detail, and analytical writing. She has **7+ years of laboratory experience**, and she has **co-authored two papers** in The Journal of Neuroscience, including **one "first author" publication**. Her primary professional objective is the development and clinical application of a *data-driven* therapeutic approach to genetic, generalized epilepsies.

Fig.1. A timeline of Danielle Cuilli's Primary Employment

John Carroll University	MetroHealth Medical Ctr	Case Western Reserve	Ben Venue Laboratories	University of Tennessee	Stay-at-Home Parent	Cleveland Clinic Foundation
B.S., Chemistry	Research Volunteer	Research Assistant II	Monitoring Technician	Graduate Student	Willoughby, OH.	Research Technologist
2004-2008	2006-2008	2008-2011	2011-2012	2012-2014	2014-present	

Fig. 1. A timeline showing Danielle's primary employment since graduating high school in 2004. The white boxes reflect previous work experience, and the yellow (shaded) box represents her proposed addition to the existing workflow.

PROFESSIONAL EXPERIENCE

BEN VENUE LABORATORIES, Physical Monitoring Technician 6/2011 – 6/2012
Monitored the aseptic production of parenteral chemotherapy drugs in accordance with Good Laboratory Practice (GLP) and Good Manufacturing Practice (GMP) standards. Performed root-cause investigations into GMP deviations and prepared deviation reports describing the potential impact on manufactured products. Worked with Quality Assurance to implement corrective and/or preventative actions as needed. Addressed a 3+ year backlog of incomplete department records, restoring the department's compliance with Good Documentation Practice (GDP) standards.

CASE WESTERN RESERVE UNIVERSITY, Research Assistant II 6/2008 – 4/2011
Proposed and executed an independent project characterizing the development of biochemical and behavioral phenotypes in a mouse model of Rett Syndrome (Taneja et al. 2009, Schmid et al. 2012). Identified a small-molecule BDNF mimetic for its ability to restore respiratory function, motor coordination, sensorimotor- gating function, and TrkB signaling in Mecp2 heterozygote mice (Schmid et al. 2012). Designed and implemented an efficient workflow to screen experimental drugs for therapeutic effects while minimizing the number of animals required for each experiment. Prepared text and figures for presentations, funding requests and publications.

METROHEALTH MEDICAL CENTER, Volunteer Research Assistant 9/2006 – 5/2008
Prepared and maintained human embryonic kidney cell and neuronal cell cultures for electrophysiological recordings. Investigated the electrophysiological properties of TRPC6 ion channels *in vitro* using voltage-clamp/current-clamp techniques (CLAMPEX).

EDUCATION

JOHN CARROLL UNIVERSITY 8/2004 – 5/2008
B.S. in Chemistry, Biology

THE UNIVERSITY OF TENNESSEE HEALTH SCIENCE CENTER 8/2012 – 4/2014
Graduate Student, Integrated Biomedical Sciences
Completed 18 credit hours toward a Ph.D., including coursework in Neurodevelopment, Neurophysiology, Neuropharmacology, Metabolomics, Biophysics, and Research Ethics. Performed laboratory rotations and began dissertation research at St. Jude Children's Research Hospital.

RESEARCH SKILLS

ELISA, (q-)(RT-) PCR, CHIP-Seq, NGS data manipulation; immunohistochemistry, Western blot; cell culture, transfection; respiratory plethysmography, acoustic startle response and prepulse inhibition tests, rotarod, SHIRPA; animal handling and husbandry, gross dissection and tissue extraction, microsurgery, stereotaxic surgery and gene delivery; calcium imaging; electrophysiology using voltage-clamp, current-clamp, CLAMPEX; oral presentation; technical writing, ImageJ, statistical analysis, SPSS, R, Microsoft Excel with VBA, amateur familiarity with Galaxy, Bioconductor, VBA, Python, PANDAS, and XGBoost.

Fig. 2. Total Professional Experience Using Standard Scientific Methods and Skills

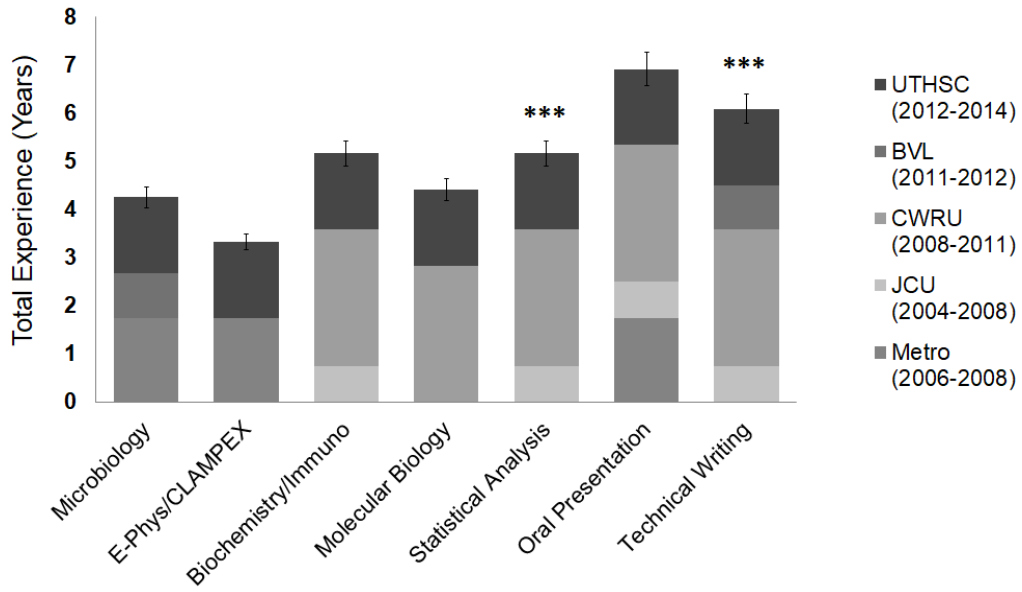

Fig. 2. Summary data describing Danielle Cuilli's accumulated professional experience using select laboratory techniques and scientific skills. The timeline is constructed from actual start and end dates with each employer, with each "year" reflecting 52 weeks of employment in a position that required regular, recurrent use of the skill. Part-time work (JCU, Metro) was normalized to full-time hours. Error bars represent an arbitrary 5% error to account for experience lost to sick/vacation days and experience gained through overtime hours. UTHSC=University of Tennessee Health Science Center, BVL=Ben Venue Laboratories, CWRU=Case Western Reserve University, JCU=John Carroll University, Metro=Metrohealth Medical Center, *** indicates an area that Danielle considers a personal strength.

PROFESSIONAL PUBLICATIONS

1. **Schmid DA**, Yang T, Ogier M, Adams I, Mirakhur Y, Wang Q, Massa SM, Longo FM, Katz DM (2012). A TrkB small molecule partial agonist rescues TrkB phosphorylation deficits and improves respiratory function in a mouse model of Rett syndrome. J. Neurosci.; 32(5):1803-10. doi: 10.1523/JNEUROSCI.0865-11.2012.

2. Taneja, P, Ogier, M, Brooks-Harris, G, **Schmid, DA**, Katz, DM, Nelson, SB (2009). Pathophysiology of locus ceruleus neurons in a mouse model of Rett Syndrome. J. Neurosci.; 29(39):12187-195. doi: 10.1523/JNEUROSCI.3156-09.2009.

ONLINE PORTFOLIO

www.daniellecuilli.com