

## **RESUME OF TESSI SHERRIN**

### ***EDUCATION***

**7/2007**      ***National University of Singapore, Singapore***  
Doctor of Philosophy in Pharmacology with specialization in Behavioral Neuroscience

**5/1998**      ***Bangalore University, Bangalore, India***  
Master of Science in Applied Genetics

**4/1996**      ***Bangalore University, Bangalore, India***  
Bachelor of Science in Microbiology, Chemistry and Zoology

### ***EMPLOYMENT***

**1/2022 - Present**      ***Serological Research Institute, Richmond, CA***  
Forensic DNA Analyst II  
Handling, examination, and screening of evidence items. Extraction, quantification, and amplification of DNA from known evidence samples. Analyze and interpret data, provide expert testimony and analytical reports. Experience includes robotic extraction on the EZ1 instrument, quantitation with Real-Time PCR using Quantifiler Trio kit on the ABI 7500 and Quant Studio 5, amplification with GlobalFiler and Yfiler Plus kits, and STR and YSTR analysis on the ABI 3130xl and 3500 using GeneMapper ID-X software.

**2/2018 – 1/2022**      ***Honolulu Police Department, Honolulu, HI***  
Criminalist II, DNA  
Handling, examination, and screening of evidence items. Extraction of DNA from questioned and known evidence samples. Provide expert testimony and analytical reports. Experience includes robotic extraction on the Maxwell, STR analysis on the ABI 3500 using GeneMapper ID-X software, and report writing.

# TESSI SHERRIN

***2/2015 – 2/2018***

***University of Hawaii, Manoa, Honolulu, HI***

Assistant Researcher

Investigated the role of protein kinase JNK (c-Jun N terminal kinase) and its related molecular partners in regulating learning and memory. Mentored graduate and undergraduate students and volunteers. Helped setup strategy and research plans for students. Co-authored scientific publications and grants. Peer reviewed scientific articles. Collaborated on a project involved in testing a novel peptide drug in preventing neurotoxicity associated with Alzheimer's. Performed experiments and trained graduate students to conduct animal surgeries and injections followed by behavioral testing. Taught classes for CMB 606 (Basic Neuroscience). Managed Animal Behavior Core unit: trained users, maintained rodents and related equipment.

***8/2007 – 2/2015***

***Research Corporation of the University of Hawaii, Honolulu, HI***

Postdoctoral Fellow

Investigated the role of protein kinase JNK (c-Jun N terminal kinase) and its related molecular partners in regulating learning and memory. Performed animal behavior experiments, biochemical and molecular biological assays on animal tissues. Trained graduate and undergraduate students. Co-authored scientific publications and grants. Peer reviewed scientific articles. Managed Animal Behavior Core Unit: trained users, maintained rodents, maintained and checked related equipment.

***7/1999 – 10/2000***

***National Institute of Mental Health and Neurosciences, Bangalore, India***

Junior Research Fellow

Worked on a project titled "Genetic basis of Schizophrenia (SCZ) and Bipolar Affective Disorder (BPAD). Performed DNA isolation, genotyping and linkage analysis for chromosome 22 markers. Identification of Single Nucleotide Polymorphisms (SNP's). Prepared pedigree charts. Co-authored scientific publications. Updated patient databases.

# **TESSI SHERRIN**

## ***PROFESSIONAL AFFILIATIONS***

American Academy of Forensic Sciences (AAFS): Associate Member since 2018 (expires March 2022)

## ***TESTIMONY EXPERIENCE***

Honolulu County, First Circuit Court, Honolulu, HI (Grand Jury)                      July 2021

## ***CONTINUING EDUCATION AND TRAINING***

26<sup>th</sup> Annual CODIS Conference-18.5 hrs (Web-based)  
December 8th-10th, 2020

QIAcube Connect Customer Training, Qiagen -9 hrs (Honolulu,HI)  
October 14th-15th, 2019

QuantStudio 5 PCR System Installation Training, Applied Biosystems -9 hrs (Honolulu, HI)  
July 10th-11<sup>th</sup>, 2019

Probabilistic Genotyping Series, Forensic Technology Center of Excellence -16 hrs (Web-based)  
June 16th- July 18th, 2019

Forensic Science Courtroom Testimony, Trittech Forensics-2 days (Houston, HI)  
March 11th-13th, 2019

New SWGDAM Recommendations on Communicating Likelihood Ratios-Archival – 2.25 hrs  
(Web-based) October 29th, 2018

2020 Quality Assurance Standards (QAS) and Auditor Training, Federal Bureau of Investigation  
(Web-based) July, 2020

Ethics in Forensic Science, West Virginia University Continuing and Professional Education-  
15hrs (Web-based) December, 2016

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## *PUBLICATIONS*

Morel C, Sherrin T, Kennedy NJ, Forest KH, Avcioglu Barutcu S, Robles M, Carpenter-Hyland E, Alfulaij N, Standen CL, Nichols RA, Benveniste M, Davis RJ, Todorovic C. JIP1-Mediated JNK Activation Negatively Regulates Synaptic Plasticity and Spatial Memory. *J Neurosci*. 2018 Apr 11;38(15):3708-3728.

Forest KH, Alfulaij N, Arora K, Taketa R, Sherrin T, Todorovic C, Lawrence JLM, Yoshikawa GT, Ng HL, Hrubby VJ, Nichols RA. Protection against  $\beta$ -amyloid neurotoxicity by a non-toxic endogenous N-terminal  $\beta$ -amyloid fragment and its active hexapeptide core sequence. *J Neurochem*. 2018 Jan;144(2):201-217.

Murthy SR, Sherrin T, Jansen C, Nijholt I, Robles M, Dolga AM, Andreotti N, Sabatier JM, Knaus HG, Penner R, Todorovic C, Blank T. Small-conductance  $Ca^{2+}$ -activated potassium type 2 channels regulate the formation of contextual fear memory. *PLoS One*. 2015;10(5):e0127264.

Lawrence JL, Tong M, Alfulaij N, Sherrin T, Contarino M, White MM, Bellinger FP, Todorovic C, Nichols RA. Regulation of presynaptic  $Ca^{2+}$ , synaptic plasticity and contextual fear conditioning by a N-terminal  $\beta$ -amyloid fragment. *J Neurosci*. 2014 Oct 22;34(43):14210-8.

Sherrin T, Blank T, Todorovic C. c-Jun N-terminal kinases in memory and synaptic plasticity. *Rev Neurosci*. 2011;22(4):403-10.

Sherrin T, Blank T, Hippel C, Rayner M, Davis RJ, Todorovic C. Hippocampal c-Jun-N-terminal kinases serve as negative regulators of associative learning. *J Neurosci*. 2010 Oct 6;30(40):13348-61.

Sherrin T, Blank T, Saravana R, Rayner M, Spiess J, Todorovic C. Region specific gene expression profile in mouse brain after chronic corticotropin releasing factor receptor 1 activation: the novel role for diazepam binding inhibitor in contextual fear conditioning. *Neuroscience*. 2009 Aug 4;162(1):14-22.

Todorovic C, Sherrin T, Pitts M, Hippel C, Rayner M, Spiess J. Suppression of the MEK/ERK signaling pathway reverses depression-like behaviors of CRF2-deficient mice. *Neuropsychopharmacology*. 2009 May;34(6):1416-26.

Sherrin T, Todorovic C, Zeyda T, Tan CH, Wong PT, Zhu YZ, Spiess J. Chronic stimulation of corticotropin-releasing factor receptor 1 enhances the anxiogenic response of the cholecystokinin system. *Mol Psychiatry*. 2009 Mar;14(3):291-307.

Todorovic C, Radulovic J, Jahn O, Radulovic M, Sherrin T, Hippel C, Spiess J. Differential activation of CRF receptor subtypes removes stress-induced memory deficit and anxiety. *Eur J Neurosci*. 2007 Jun;25(11):3385-97.

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Sherrin T, Heng KY, Zhu YZ, Tang YM, Lau G, Tan CH. Cholecystokinin-B receptor gene expression in cerebellum, pre-frontal cortex and cingulate gyrus and its association with suicide. *Neurosci Lett*. 2004 Mar 4;357(2):107-10.

Saleem Q, Dash D, Gandhi C, Kishore A, Benegal V, Sherrin T, Mukherjee O, Jain S, Brahmachari SK. Association of CAG repeat loci on chromosome 22 with schizophrenia and bipolar disorder. *Mol Psychiatry*. 2001 Nov;6(6):694-700.

Shaikh KJ, Naveen D, Sherrin T, Murthy A, Thennarasu K, Anand A, Benegal V, Jain S. Polymorphisms at the DRD2 locus in early-onset alcohol dependence in the Indian population. *Addict Biol*. 2001 Sep;6(4):331-335.