

# Vidya Chandrasekaran

vc5@stmarys-ca.edu

Work: (925) 631 4251 Mobile: (925) 719 1489

<https://www.linkedin.com/in/vidya-chandrasekaran-6b38055a/>

---

An experienced scientist, educator and a collaborative, strategic leader committed to a high quality, rigorous education and training of a diverse group of science professionals. Dedicated to making student-centered science education affordable and accessible to a wide range of STEM students. Created and launched the first graduate program in the School of Science; collaborated and led efforts to bring over \$5 million in grant funding for student scholarships, research equipment and student research opportunities; implemented curricular innovations to support student success; and cultivated partnerships with biotech companies, academic and industry organizations.

---

## EDUCATION

<b>Ph.D. in Pharmacology and Toxicology</b>	1999
State University of New York at Buffalo	
Scholarship Area: Dendritic growth regulation in sympathetic neurons	
<b>Bachelor of Pharmaceutical Sciences (B.Pharm)</b>	1994
University of Bombay, India	

---

## ACADEMIC AND INDUSTRY APPOINTMENTS

<b>Professor</b> , Department of Biology, Saint Mary's College of CA	2020 - Present
<b>Associate Professor</b> , Department of Biology, Saint Mary's College of CA	2011 - 2020
<b>Research Associate</b> , Lein Lab, Dept. of Molecular Biosciences, University of California at Davis	2011 - 2014, 2016 - 2023
<b>Visiting Professor</b> , Lein Lab, Dept. of Molecular Biosciences, University of California at Davis	2014 - 2016
<b>Assistant Professor</b> , Department of Biology, Saint Mary's College of CA	2008 - 2011
<b>Adjunct Professor</b> , Department of Biology, Saint Mary's College of CA	2007 - 2008
<b>Senior Technical Consultant</b> , Bio-Rad Laboratories, Hercules, CA	2005 - 2007
<b>Associate Specialist</b> , Dept. of Molecular and Cell Biology, Beckendorf Lab University of California at Berkeley	2004 - 2005
<b>Postdoctoral Researcher</b> , Dept. of Molecular and Cell Biology, Beckendorf Lab University of California at Berkeley	1999 - 2004

---

## ADMINISTRATIVE APPOINTMENTS

<b>Program Director</b> , Professional Science Master's in Biotechnology Program Saint Mary's College of CA	2022 - Present
<b>Acting Dean</b> , School of Science, Saint Mary's College of CA	Jan 2020
<b>Chair</b> , Department of Biology, Saint Mary's College of CA	2013 - 2016, 2018 - 2019
<b>Coordinator</b> , Summer Research Program, Saint Mary's College of CA	2011 - 2016
<b>Chair</b> , Rank and Tenure Committee, Saint Mary's College of CA	2017 - 2018
<b>Chair</b> , Undergraduate Educational Policies Committee, Saint Mary's College of CA	2020 - 2021, 2023 - Present
<b>Chair</b> , Institutional Animal Care and Use Committee, School of Science, Saint Mary's College of CA	2014 - Present

## PROFESSIONAL ACCOMPLISHMENTS

### **Program Director, Professional Science Master's in Biotechnology, Saint Mary's College of CA**

**2022 - Present**

- Developed and launched graduate program in Biotechnology at Saint Mary's College, the first graduate program in the School of Science (SOS), including writing and coordinating internal approvals and WSCUC accreditation of the program, prior to becoming the Program Director
- Collaborated with Biology, Chemistry and Math faculty to develop curriculum for the program
- Developed the website and marketing materials for the program in collaboration with graduate professional programs support team and the Marketing Communications team
- Coordinated with graduate professional programs support team, Admissions, International programs and Financial aid on recruitment efforts and student services
- Projected the budget, enrollment goals and enrollment strategy for the program
- Created an advisory board for the program with alums, industry leaders to help program development
- Recruited adjunct faculty who are industry professionals to teach the business and biotech industry related classes for the program
- Brought visibility to the program & School of Science by engaging the industry organizations and with industry professionals

### **Chair, Department of Biology, Saint Mary's College of CA**

**2013 - 2016, 2018 - 2019**

- Reorganized the curriculum for Biology majors to increase flexibility, in collaboration with Biology faculty
- Revised the program learning goals, curriculum map and developed assessment plan as part of the program review process
- Collaborated with Biology faculty to complete the first round of data collection and analysis for assessing one of the Biology program objectives
- Spearheaded efforts for the development and approval of three new upper division Special Topics elective courses in organismal biology, ecology and evolutionary biology, cellular and molecular biology options
- Developed student surveys and coordinated with School of Science chairs to ensure that there were enough upper division courses and laboratory spaces for Biology and Biochemistry majors
- Obtained funding for major equipment such as imaging systems and centrifuges for updating Biology laboratory experiences through negotiations with the Dean and Provost
- Chaired and organized the West Coast Biological Sciences Undergraduate Research Conference at Saint Mary's College for the first time with over 300 attendees from 40 institutions to showcase undergraduate research in Biology and Biochemistry
- Chaired three successful tenure-track searches and multiple searches for adjunct faculty
- Mentored and supported new faculty and conducted their Rank and Tenure reviews
- Managed departmental budget of over \$250,000 in lab fees and ensured budget was balanced every year

### **Assistant, Associate and Full Professor, Department of Biology**

**2008 - Present**

- Developed and taught a wide range of upper and lower division courses in areas of Cell Biology, Biochemistry, Genetics, Developmental Biology and Physiology intended for Biology, Biochemistry, Health Science, Nursing and Exercise Science Majors
- Implemented different pedagogical methods including Process Oriented Guided Inquiry Learning (POGIL) worksheets, flipped classrooms and discussion-based class sessions to promote critical thinking, scientific inquiry and communication skills

- Mentored over 40 undergraduates on research projects over the summers or during the academic year and over 60 students in course-based undergraduate research experiences (CUREs)
- Incorporated Drosophila genome annotation in the curriculum as a CURE, in collaboration with Genomics Education Partnership (GEP) which resulted in a research publication that included 12 Saint Mary's students as co-authors and four science education publications in CBE-Life Sciences
- Published 12 peer-reviewed publications and two book chapters since 2008 with 25 undergraduate student co-authors

#### **Major Grant Funding - Research and Institutional**

**2008 - Present**

##### **NSF - Robert Noyce Track I grant (Award Number: 2243513)**

**2022-2027**

##### **\$1.2 Million, Co-PI**

- Developed and co-authored the grant proposal with Dr. Mary Raygoza in the Kalmanovitz School of Education (KSOE) (PI on the grant).
- Identified the Noyce scholars for the first round of funding as member of the selection committee
- Coordinated with admissions, financial aid, business office and advising to ensure funding was allocated to the students in a timely manner and the students were on track to complete the degree on-time

##### **NIH R01 sub award to Saint Mary's College,**

**2021 - 2026**

##### **UC Davis grant number - RF1AG074709, Sub award Number: A21-2367-S001,**

##### **\$249,931, Sub Award PI**

- Provided input to research team at UC Davis during grant writing and later in the execution of experiments and data analyses.
- Recruited and supervised students as research assistants for the project to conduct daily animal checks and help with tissue collection for our gut microbiome analyses
- Evaluated the effects of traffic related air pollution on gut microbiome and metabolome

##### **NSF Major Research Instrumentation grant (Award Number: 21170998),**

**2020 - 2024**

##### **\$384,762, PI**

- Developed and authored the grant proposal in collaboration with faculty members from the Biology department
- Organized demonstration sessions from different microscope vendors to help identify the microscope that met the research and teaching needs for the faculty on the grant
- Facilitated the reorganization of space and installation of the microscope through regular communication with Leica (microscope vendor) and Saint Mary's facilities department
- Trained faculty and students on the instrument.
- Oversaw the maintenance of the instrument

##### **NSF Robert Noyce Capacity Building Grant (Award Number: 1950310),**

**2020 - 2022**

##### **\$75,000, Co-PI**

- Co-authored the grant proposal with Prof. Mary Raygoza from KSOE (PI on the grant), served as grant PI in Spring 2021
- Coordinated with the School of Science departments and KSOE to create Bachelor of Arts options for STEM majors and developed STEM teaching pathways for the students
- Assisted in the design, administration and analysis of the data from surveys and focus groups of Saint Mary's students, and faculty as well as students and teachers from Mount Diablo Unified School District to learn about student experiences in STEM, knowledge of K-12 STEM teaching careers, and K-12 STEM teacher experiences
- Created and submitted annual report to NSF about grant activities

**US Department of Education HSI-STEM grant (Camino a Las Ciencias (CALC) grant) 2016- 2021**  
**\$2.7 million, Co-PI**

- Collaborated with the Dean Roy Wensley (PI) and other Co-PIs in the writing of the grant
- Served as main Co-PI to oversee grant-related activities in 2018 -2019
- Created supplemental instruction worksheets for students in Introductory Biology course as a pilot to improve student success in Biology courses
- Collaborated with Dr. Ameer Thompson (CALC Program Director 2016 - 2019) to evaluate effectiveness of student tutors for Calculus supplemental instruction.
- Reviewed and edited the the quarterly report for the grant in Spring 2020

**NSF S-STEM grant - Mentored Access to Programs in STEM (MAPS) 2014- 2019**  
**Award Number: 1354825, \$618,688, Co-PI**

- Collaborated with the PI and other Co-PIs in the writing of the grant
- Selected the candidates for the tuition scholarship as a member of the interview committee
- Served as the Interim Director for the MAPS in 2016 - 2017 when the PI Prof. Jones was on sabbatical
- Coordinated with Admissions and co-PIs to recruited eligible students, set up interviews and identify award recipients when serving as the Interim Director
- Co-authored the annual report to NSF with Prof. Chris Jones (grant PI) when serving as Interim Director

---

## SERVICE

### Service to School of Science

**Coordinator, Summer Research Program 2011 - 2016**

- Conducted information sessions, coordinated application submission, review of applications
- Maintained oversight of the 10-week program activities
- Coordinated poster and oral presentations, judging and final award selection for best research

**Chair, Institutional Animal Care and Use Committee 2014 - Present**

- Created the protocols and forms to be in compliance with federal and state guidelines for use of animals for research and teaching
- Chaired a committee of faculty from School of Science and other schools as well as community partners to approve individual proposals for use of live animal for research and teaching on campus

**Leader, SOS Career Development Plan Group 2021**

- Coordinated a group of SOS faculty to identify career development activities for STEM majors
- Authored the SOS White paper with suggestions for career pathways in SOS and submitted to the Dean

**Member, Biochemistry Program Steering Committee 2010 - Present**

- Co-authored the first program review for the Biochemistry program and developed program level assessment for one of the learning goals
- Redesigned the two core biochemistry courses - BCH 301 and BCH 302 in collaboration with other steering committee members

## College-wide Service

**Chair, Rank and Tenure Committee** 2017 - 2018  
**Member, Rank and Tenure Committee** 2015 - 2018

### **As Chair**

- Prepared the case schedule, worked with administrative assistant to ensure that case materials were available for the committee, edited letter drafts and worked with the committee members to finalize the R&T letters.
- Facilitated the implementation of Interfolio - a new system for uploading and reviewing R&T documents
- Conducted workshops for candidates, chairs and deans about the process and due dates
- Participated in new faculty orientations to provide information about R&T process

### **As member**

- Presented cases, wrote draft letters and reviewed the completed letters

**Chair, Undergraduate Educational Policies Committee (UEPC)** 2020 - 2021, 2023 - Present  
**Vice Chair, Undergraduate Educational Policies Committee (UEPC)** 2019 - 2020, 2022 - 2023

### **As Chair**

- Coordinated with Department Chairs and Program Directors regarding submission of course and program proposals
- Piloted the implementation of Curriculog as an online system for UEPC proposals (2019- 2020)
- Assisted departments with implementation of transition to Carnegie Unit system (2023 - present)
- Updated policies during Covid-19 ( 2019 - 2020) and forms for certificate proposals and 4+1 proposals (2023 -present) in consultation with members of the committee
- Created the agenda for the meetings and communicated the information to the Academic Senate
- Collaborated with Senate leaders on important academic policy issues and communicated the UEPC deliberations to the Academic Senate

### **As Vice Chair**

- Reviewed the curriculum modification and new course materials, participated in deliberations, maintained and submitted minutes of the meetings

Member, President Search Committee 2019 - 2020, 2023 - 2024  
Member, Executive Director of Financial Aid Search Committee 2023  
Member, Strategic Plan Implementation group - Priority teams 2023  
Member, Strategic Plan Steering Committee 2019 - 2023  
Member, EVP Provost Search Committee 2021- 2022  
Member, Rank and Tenure Task Force 2021- 2022  
Chair, Intellectual Property Task Force 2020 - 2021  
Member, Intellectual Property Task Force 2018 - 2021  
Member, Pre-enrollment Team 2017- 2023  
Member, Search Committee for Director of Institutional Research 2020  
Member, Faculty Development Fund Committee 2008 - 2019  
Member, Search Committee for Dean of the Core 2016 -2017  
Member, SEIU Advisory Committee 2016  
Member, First Year Advising Task Force 2012  
Member, Search Committee for Dean of School of Science 2010 - 2011  
Member, Core Curriculum Implementation Committee 2009 - 2012  
Member, Disciplinary Hearing Board 2009 - 2011

## **Service to the Professional and Local Community**

Guest Editor, Methods Collection - Model Systems and Methods in Neurotoxicology, JoVE Journal	2023- 2024
External reviewer for Biology department program review at Mills College	2019
Chair and Lead Organizer, 43rd West Coast Biological Science Undergraduate Research Conference, Saint Mary's College of CA	2018
American Association for University Women - Expanding your horizons, Workshop presenter	2018 - 2023
Peer Reviewer for : Developmental Biology, Neurotoxicology, Biomolecules, Food and Chemical Toxicology, Environmental Science and Pollution Research, European Journal of Pharmacology	2008 - Present

---

## **GRANTS AND AWARDS**

NSF - Robert Noyce Track I grant, \$1.2 Million, Co-PI	2022 - 2027
NIH R01 - Subaward to Saint Mary's College, \$249,931, Subaward PI	2021 - 2026
NSF - MRI grant for Confocal Microscope, \$384,762, PI	2021 - 2024
NSF- Robert Noyce Capacity Building Grant, \$75,000, Co-PI	2020 - 2022
HSI - STEM (CALC) grant from Dept. of Education, \$2.7 Million, Co-PI	2016 - 2021
Alumni Faculty Fellowship Grant, Saint Mary's College of CA, \$4,500	2010, 2013, 2018
NSF S-STEM program grant for Mentored Access to Program in Science (MAPS), \$618,688, Co-PI	2014 - 2019
Faculty Research Grant - Saint Mary's College, \$9000	2017 - 2018
NSF funded GCAT mini instrumentation grant, \$12,000	2013
NSF sponsored SENCER SSI Implementation grant, \$3,000	2013

---

## **PROFESSIONAL AND LEADERSHIP DEVELOPMENT**

Drug Development Product Management Specialization (Coursera course offered by University of California, San Diego)	2022
Leading for Equity, Diversity and Inclusion in Higher Education (Coursera course offered by University of Michigan)	2022
Essentials of Management and Strategic Planning (Coursera course offered by University of California, Irvine)	2023

---

## **RESEARCH INTERESTS**

- Elucidating the biological pathways underlying the regulation of dendritic growth in embryonic and adult peripheral nervous system using a rat model system.
  - Examining the interplay between traffic-related air pollution, gut microbiome and Alzheimer's disease progression in transgenic rats that are predisposed to Alzheimer's disease.
  - Characterizing the cellular and toxicological effects of food additives, nutritional supplements and microplastics in different cell types, chick embryos and zebrafish model systems.
  - Exploring new pedagogical approaches to teaching genomics, genetics, biochemistry and physiology.
-

## PEER REVIEWED PUBLICATIONS

- Karunungan K, Garza RH, Grodzki AC, Holt M, Lein PJ, **Chandrasekaran V**.:Gamma secretase activity modulates BMP-7-induced dendritic growth in primary rat sympathetic neurons. *Auton Neurosci.* 247:103085., 2023 doi: 10.1016/j.autneu.2023.103085. PMID: 37031474; PMCID: PMC10330319.
- Holt M, Adams B, **Chandrasekaran V**.: Culturing rat sympathetic neurons from embryonic superior cervical ganglia for morphological and proteomic analysis. *JoVE.* 163, 2020. doi:10.3791/61283.
- Pravoverov K, Whiting K, Thapa S, Bushong T, Trang K, Lein PJ, **Chandrasekaran V**.: MicroRNAs are Necessary for BMP-7-induced Dendritic Growth in Cultured Rat Sympathetic Neurons. *Cell Mol Neurobiol.* 39(7):917-934, 2019. doi: 10.1007/s10571-019-00688-2. PMID: 31104181; PMCID: PMC6713596.
- Henley R, **Chandrasekaran V**, Giulivi C. Computing neurite outgrowth and arborization in superior cervical ganglion neurons. *Brain Res Bull.* 144:194-199, 2019 doi: 10.1016/j.brainresbull.2018.12.001. Epub 2018 Dec 6. PMID: 30529562; PMCID: PMC6994235.
- Miller GW, **Chandrasekaran V**, Yaghoobi B, Lein PJ.: Opportunities and challenges for using the zebrafish to study neuronal connectivity as an endpoint of developmental neurotoxicity. *Neurotoxicology.* 67:102-111, 2018
- **Chandrasekaran V**, Lea C, Sosa C, Higgins D and Lein PJ.: Reactive Oxygen Species are Involved in BMP-Induced Dendritic Growth in Cultured Rat Sympathetic Neurons. *Mol Cell Neurosci.* 67:116-25, 2015.
- Leung, W, ..... **Chandrasekaran V**, ..., Elgin, SCR.: The Drosophila Muller F elements maintain a distinct set of genomic properties over 40 million years of evolution. *G3.* 5(5):719-40, 2015.
- Lopatto D, Hauser C, Jones CJ, Paetkau D, **Chandrasekaran V**, Dunbar D, MacKinnon C et. al.: A Central Support System Can Facilitate Implementation and Sustainability of a Classroom-Based Undergraduate Research Experience (CURE) in Genomics. *CBE Life Sci Educ.* 13(4):711-23, 2014.
- Shaffer CD, Alvarez CJ, Bednarski AE, Dunbar D, Goodman AL, Reinke C, Rosenwald AG, Wolyniak MJ, Bailey C, Barnard D, Bazinet C, Beach DL, Bedard JE, Bhalla S, Braverman J, Burg M, **Chandrasekaran V**, Chung HM, Clase K et.al.: A course-based research experience: how benefits change with increased investment in instructional time. *CBE Life Sci Educ.*13(1):111-30. 2014.
- Doyle W, Shide E, Thapa S, **Chandrasekaran V**.: The effects of energy beverages on cultured cells. *Food and Chemical Toxicology*, 50: 3759-3768, 2012.
- Wolyniak M.J, Alvarez C J, **Chandrasekaran V**, Grana T A, Holgado A, Jones C.J, Morris R.W, Pereira A L, Stamm J, Washington T.M, and Yang Y.: Building better scientists through cross-disciplinary collaboration in synthetic biology: a meeting report from the genome consortium for active teaching (GCAT) workshop 2010. *CBE—Life Sciences Education*, 9(4): 399–404, 2010
- Shaffer C.D, Alvarez C, Bailey C, Barnard D, Bhalla S, Chandrasekaran C, **Chandrasekaran V**, Chung H, Dorer D.R, Du C, Eckdahl T.D, Poet J, Frohlich D, Goodman A.L, Gosser Y, Hauser C, Hoopes L.M., Johnson D, Jones C.J, Kaehler K, Kokan N, Kopp O.R, Kuleck G, McNeil G, Moss R, Myka J, Nagengast A, Morris R, Overvoorde P.J, Shoop E, Parrish S, Reed K, Regisford G, Revie D, Rosenwald A.E, Saville K, Schroeder S, Shaw M, Skuse G, Smith C, Smith C, Spana E.P, Spratt M, Stamm J, Thompson J.S, Wawersik M, Wilson B.A, Youngblom J, Leung W, Buhler J, Mardis E.R, Lopatto D, and Elgin S.C.R.: The Genomics Education Partnership: Successful Integration of Research into Laboratory Classes at a Diverse Group of Undergraduate Institutions. *CBE—Life Sciences Education*, 9(1) 55-69, 2010.
- **Chandrasekaran V**, Beckendorf SK.: Tec29 controls actin remodeling and endoreplication during the invagination of the Drosophila embryonic salivary glands. *Development*, 132: 3515-24, 2005.
- **Chandrasekaran V**, Beckendorf SK.: senseless is necessary for the survival of embryonic salivary gland precursors in Drosophila. *Development*, 130: 4719-28, 2003.

- Lein PJ, Beck H, **Chandrasekaran V**, Gallagher PJ, Chen H, Lin Y, Guo X., Kaplan P.L., Tiedge H., Higgins D.: Glia induce dendritic growth in cultures sympathetic neurons by modulating the balance between bone morphogenetic proteins (BMPs) and BMP antagonists. *J. Neurosci.*, 22: 10377-10387, 2002.
- Horbinski C, Stachowiak, EK, **Chandrasekaran V**, Miuzukoshi E, Higgins D, Stachowiak MK.: Bone morphogenetic protein-7 stimulates initial dendritic growth in sympathetic neurons through an intracellular fibroblast growth factor signaling pathway. *J. Neurochem.*, 80: 54-63, 2002.
- Dattatreya Murthy B, Roux E, Kaplan PL, Roback LA, Horbinski C, Lein PJ, Higgins D, **Chandrasekaran V**.: Cerebrospinal fluid contains biologically active bone morphogenetic protein -7. *Exp. Neurol.*, 172: 273 – 281, 2001.
- **Chandrasekaran V**, Zhai Y, Wagner M, Napoli JL, Kaplan PL, Higgins D.: Retinoic acid regulates the morphological development of sympathetic neurons. *J. Neurobio.*, 42: 383 – 393, 2000.
- Guo X., **Chandrasekaran V.**, Lein P.J., Kaplan P.L. and Higgins D.: Leukemia inhibitory factor and ciliary neurotrophic factor cause dendritic retraction in cultured sympathetic neurons. *J. Neurosci.*, 19: 2113 - 2121, 1999.

### PEER REVIEWED BOOK CHAPTERS

- **Chandrasekaran V**, Lein PJ. :Regulation of Dendritogenesis in Sympathetic Neurons [Internet]. *Autonomic Nervous System*. InTech; 2018. Available from: <http://dx.doi.org/10.5772/intechopen.80480>
- **Chandrasekaran V.**: Signaling Pathways Regulating Axogenesis and Dendritogenesis in Sympathetic Neurons. *Autonomic Nervous System - Special Interest Topics*. IntechOpen. 2022. Available at: <http://dx.doi.org/10.5772/intechopen.102442>.

### CONFERENCE PRESENTATIONS

- Raygoza M, Vasgerdsian F, and **Chandrasekaran V**, "Obligated to Serve Our World": STEM Majors' Perspectives on Teaching STEM for Social Justice. American Education Research Association Annual Meeting, 2022 (Platform).
- Henley, R., Karunungan, K., Lein P.J. and **Chandrasekaran, V.**: Gamma Secretase activity is necessary for BMP-7-induced dendritic growth in embryonic sympathetic neurons. Experimental Biology meeting, 2018 (poster).
- Whiting, K., Lein P.J. and **Chandrasekaran, V.**: Role of microRNAs in regulating BMP-7-induced dendritic growth in embryonic sympathetic neurons. West Coast Biological Sciences Undergraduate Research Conference, 2018 (platform)
- Henley, R., Karunungan, K., Lein P.J. and **Chandrasekaran, V.**: Gamma Secretase activity is necessary for BMP-7-induced dendritic growth in embryonic sympathetic neurons. West Coast Biological Sciences Undergraduate Research Conference, 2018 (platform)
- Adams B., Iavarone A., Lein P.J. and **Chandrasekaran, V.**: Changes in Rattus Norvegicus proteome due to BMP-7 induced dendritogenesis. West Coast Biological Sciences Undergraduate Research Conference, 2018 (platform)
- Karunungan, K., Lein P.J. and **Chandrasekaran V.**: Gamma Secretase Activity is Necessary for Bone Morphogenetic Protein-7 Induced Dendritic Growth in Embryonic Rat Sympathetic Neurons. American Society for Cell Biology, 2016. (Poster)
- Pravoverov, K., Thapa, S., Lein P.J. and **Chandrasekaran V.**: Role of microRNAs in Bone Morphogenetic Protein Induced Dendritic Growth in Sympathetic Neurons. American Society for Cell Biology, 2016. (Poster)
- **Chandrasekaran V.**, Lea C. and Lein P.J.: Free radicals are important for dendritic growth in rat embryonic sympathetic neurons. *FASEB J* March 29, 2012 26:845.6



- Lea C., Lein P.J. and **Chandrasekaran V.**: Reactive Oxygen Species are important for promoting BMP-induced dendritic growth in rat embryonic sympathetic neurons. West Coast Biological Science Undergraduate Research Conference, 2011. (Poster)
- Shide E., Doyle W and **Chandrasekaran V.**: The effects of energy drinks on the structure and function of epithelial cells and fibroblasts. West Coast Biological Science Undergraduate Research Conference, 2011. (Poster)
- Doyle W and **Chandrasekaran V.**: Embryonic and cellular effects after exposure to commonly consumed energy drinks FASEB J, 2011 25:749.3 (Poster)
- Schibler J and **Chandrasekaran V.**: The role of CG11148 in embryogenesis and wing patterning in *Drosophila*: A.Dors.Res.Conf. 51, 2010 (Poster).
- Elgin S.C.R, **Chandrasekaran V**, Chung H.M, Coyle-Thompson C, Johnson D, Jones C.J, Kokan N, McNeil G, Nagengast A, Saville K, Stamm J, Wawersik M and Lopatto D. : Genomics Education Partnership.: A. Dros. Res. Conf. 50, 2009. (Poster)
- Solarewicz V, Beckendorf S.K and **Chandrasekaran V.**: The role of taiman in the formation of *Drosophila* embryonic salivary glands.: A. Dros. Res. Conf. 50, 2009 (Poster)
- **Chandrasekaran V** and Beckendorf S.K.: The role of Btk29A in the morphogenesis of embryonic salivary glands.: A. Dros. Res. Conf. 45, 2004. (Poster)
- **Chandrasekaran V** and Beckendorf S.K.: The role of Btk29A in the morphogenesis of embryonic salivary glands.: A. Dros. Res. Conf. 44, 2003. (Poster)
- **Chandrasekaran V** and Beckendorf S.K.: senseless controls the survival of cells in the salivary glands by repressing reaper and hid: A. Dros. Res. Conf. 43, 2002. (Platform)
- **Chandrasekaran, V.**, Zhou, B. and Beckendorf, S.K.: senseless is necessary for the survival of embryonic salivary gland precursors: A. Dros. Res. Conf. 42, 2001. (Poster)
- Dattatreyamurty B., Roux E., Kaplan P.L., Lein P.J., Higgins D. and **Chandrasekaran V.**: Cerebrospinal fluid contains biologically active bone morphogenetic protein -7: Society for Neuroscience, 1999. (Poster)
- **Chandrasekaran V.**, Hedges A.M., Rueger D. and Lein P.J.: Glial induction of dendritic growth in rat sympathetic neurons involves osteogenic protein -1 (OP-1): American Society of Cell Biology, 1995. (Poster)
- **Chandrasekaran V** and Higgins D.: Retinoic acid regulates dendritic growth in rat sympathetic neurons. Eastern Students Research Conference, 1998. (Platform)