

PRAHLAD PARAJULI, Ph.D.

Office Address Department of Neurosurgery
Wayne State University
Lande Research Building, # 460
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EDUCATION

PhD, Tumor Immunology 1996
University of Delhi, Delhi, India

M.Phil, Immunology 1992
University of Delhi, Delhi, India

MS, Zoology 1989
University of North Bengal, Darjeeling, India

POSTGRADUATE TRAINING

Postdoctoral Research Associate, Pathology/Microbiology 1998 - 2000
University of Nebraska Medical Center, Omaha, Nebraska

Postdoctoral Research Fellow, Third Department of Internal Medicine 1996 - 1998
University of Tokushima School of Medicine, Tokushima, Japan

FACULTY APPOINTMENTS

Member, Molecular Therapeutics Research Program 2007 -
Barbara Ann Karmanos Cancer Institute, Detroit, MI
Present

Associate Graduate Faculty, Physiology 2005 -
Wayne State University, Detroit, Michigan
Present

Assistant Professor [Research-Educator], 2000 -
Department of Neurosurgery
Wayne State University School of Medicine
Barbara Ann Karmanos Cancer Institute, Detroit, Michigan
Present

MAJOR PROFESSIONAL SOCIETIES

American Council for Medicinally Active Plants (Founding Member and BoD Member)
American Association of Immunologists
American Association for the Advancement of Science
American Association for Cancer Research

HONORS AND AWARDS

Early Career Faculty Travel Award for Immunology American Association of Immunologists (AAI)	2013
Junior Faculty Travel Award for Immunology American Association of Immunologists (AAI)	2003
FujiOtsuka Foundation Research Fellowship FujiOtsuka Foundation and University of Tokushima, Tokushima, Japan	1996
CSIR Junior Research Fellowship Award Council of Scientific & Industrial Research, New Delhi, India	1991

SERVICE:

WAYNE STATE UNIVERSITY

Department Committees

Member Department of Neurological Surgery Resident Selection Committee 2006 – present

School of Medicine Committees

Judge, Oral Presentations, Medical Student Research Symposium 2016

Judge, Poster Presentations, Medical Student Research Symposium 2016

University Committees

Member, Facilities, Support Services and Technology Committee
WSU Academic Senate, Detroit, Michigan 2009 - 2011

Member, Research Committee
Wayne State University Academic Senate, Detroit, Michigan 2008 - 2009

Member, Review Committee
Reviewing UROP grant applications for the Honors College 2013 - 2016

Affiliate medical organizations

DMC/KCI

Poster Judge, KCI Molecular Therapy Annual Meeting 2013 - 2016

Lecture and demo on "Overview of tumor immunotherapy: principles and procedures" at the monthly orientation course for the new employees and volunteers at Karmanos Cancer Institute 2001 - 2006

PROFESSIONAL SERVICE

Community Service

'Teaching the Teachers' Workshop to Educate Local High School Teachers on Science Education, Fort Valley State University, Fort Valley, GA.
Conducted workshops on 'molecular diagnostics', a hands-on demonstration of ELISA and Immunoblotting techniques 2003 - 2004

SCHOLARLY SERVICE

Grant Review Committees

National/International

Ad-hoc Reviewer Candlelighters Research Foundation St. James's University Hospital, Leeds LS9 7TF, United Kingdom	2005 - 2006
Ad-hoc Reviewer Swiss Cancer League Bern, Switzerland	2005 - 2006

Service for Peer-Reviewed Journals

Review of Manuscripts

<i>Stem Cell</i>	2015- present
Biochemistry and Biophysics Reports	2015- present
<i>Current Cancer Drug Targets</i>	2014 - present
<i>Cancer Gene Therapy</i>	2013 - present
<i>Expert Opinion on Biological Therapy</i>	2009 - present
<i>Journal of Agricultural and Food Chemistry</i>	2008 - present
<i>Neuroepidemiology</i>	2005 - present
<i>Cancer Immunology Immunotherapy</i>	2004 - present
<i>Cancer Gene Therapy</i>	2004 - present
<i>Journal of Immunology</i>	2003 - present
<i>International Immunopharmacology</i>	1999 - present

Moderator/Chair at Scientific Sessions

International Meetings/Symposia

Chair, Session on 'Bioactives – Human Health' 3 rd Annual Meeting of American Council for Medicinally Active Plants, Jonesboro, AR	2012
Co-Chair, Session on 'Bioactives – Human Health' 2 nd Annual Meeting of American Council for Medicinally Active Plants, Huntsville, AL	2011
Member, Scientific Committee International Symposium on Medicinal Plants, Fort Valley, Georgia	2007
Co-Chair, Workshop on Medicinal Plants Annual Meeting of American Association of Horticultural Science, New Orleans, LA	2006

TEACHING

Wayne State University

Undergraduate/Graduate Students

IM 7010/IBS 7090, Immunology Course Department of Immunology and Microbiology Lecture on 'Tumor Immunology", make questions, grade exams	2009 - present
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Graduate Students

CB7410/IM7410, Cancer Biology/Immunology Course Department of Oncology	2014
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Lecture on 'Innate Immunity Against Cancers'; Assign articles for review; Moderate discussion on the articles; Check students' review of the articles and provide feedback

CB7210, Cancer Biology/Immunology Course 2010
Department of Oncology

Lecture on "NK cells and Toll-like Receptors"; Assign articles for review; Moderate discussion on the articles; Check students' review of the articles and provide feedback

CB7210, Cancer Biology/Metastasis Course 2010
Department of Oncology

Lecture on 'Immune infiltration and cancer progression/metastasis'

PSL 7660, Advance Neuro-physiology Course 2008 - present
*Lecture on 'Neuroimmunology and Immunotherapy' **

**Introduced the lecture and developed the matter*

Lecture on 'Immunotherapy of Brain Tumors' 2004 - 2006

Medical Students

Immunology Course, 2nd Year Medical Students 2015
School of Medicine, Department of Immunology and Microbiology
Lecture on 'Tumor Immunology', make questions, grade exams
Precept discussion on case studies 'AIDS' and 'Graft vs Host Disease'

Residents / Fellows

Didactic lectures/journal discussion on basic science

Department of Neurosurgery:

Lecture on Immunologic aspects of neurological disorders 2009 - present

Lecture on Glioma Immunotherapeutics 2000 - 2008

Moderate journal discussions: Principles of Immunotherapy January, 2008

Moderate journal discussions: Glioma Immunotherapeutics October, 2008

Laboratory Teaching

Directed Study (Undergraduate and Graduate Students)

BIO 6999, Raviteja Surdevara, B.S., Irvin D. Reid Honors College (4 credits) 2015- 2016

HON 4990, Preethi Sriranga, B.S., Irvin D. Reid Honors College (4 credits) 2014

BIO 3990, Sherin Philips, B.S., BioSciences (4 credits) 2014

BIO 3990, Mouli Mandalaparty, B.S. BioSciences (3 credits) 2011- 2012

BME 5990, Pramod Thokal, M.S. BioMed Engineering (3 credits) 2011

HON 4990, Sara Khan, B.S., Irvin D. Reid Honors College (3 credits) 2011

BME 5990, Sagar Dandawate, M.S. BioMed Engineering (3 credits) 2010

Mentorship

Residents

Todd Francis, MD, PhD, Resident, Neurosurgery, WSU 2006 - 2010

Vaninder Chabra, MD, Resident, Neurosurgery, WSU 2004

Chaim Colen, MD, Resident, Neurosurgery, WSU 2003 - 2005

Richard Rhiew, MD, Resident, Neurosurgery, WSU 2002 - 2004

Medical Students

*Farhan Hussain, WSU Medical Student Year II, Summer Internship	2015
Robert Dikeman, WSU Medical Student, Year III, Research Elective	2015
Sergejs Stepanovs, WSU Medical Student, Year III, Research Elective	2014
Mavis Twum, WSU Medical Student Year III, Summer Internship	2009
Sean Quinlan Davidson, Medical Student, McGill University	2002 - 2003
Praveen Sateesh, WSU Medical Student	2002

**Trainees who have (co-)authored publications/abstracts*

Post-doctoral Trainees

Yanji Liu, Visiting Professor (China)	2015 - present
Shalini Dwivedi, Post-doctoral trainee	2013 - 2014
Sudha Mudumana, post-doctoral research	2013 - 2014

Graduate Students

*Manjeera Paladugu, BioMed engineering, WSU	2012
*Sagar Dandawate, BioMed engineering, WSU	2010 - 2012
Noah Heilbrun, Graduate Student, Kalamazoo College	2002

Undergraduate Students

Bhavana A. Guduguntla	2016 - present
Sonali Reddy, part-time research student	2015 - present
Zaheen Hussain, Summer Internship	2015
Sravya Emmadi, Summer Internship	2015
*Rohit Anand, part-time research student	2013 - 2015
*Teja Suryadevara, part-time research student	2012 - present
Sherin Philip, part-time research student	2012 - 2014
*Preethi Sriranga, part-time research student	2012 - 2015
Andrew Huang, part-time research student	2011 - 2013
Ajay Gopalakrishnan, Summer Internship	2009
*Linford Williams, Summer Internship	2009 & 2011
Vasuki Nittoor, Summer Internship	2009 & 2011
*Mouli Mandalaparty, Part-Time Research Student	2009 - 2013
*Paras Patel, Part-Time Research Student	2009 - 2012
Johnny Fells, Summer Internship	2008
Abhishek Harinandan, Summer Internship	2007
Snigdha Hota, Part-Time Research Student	2006 - 2007
Jeffery Kallas, Part-Time Research Student	2005 - 2007

**Trainees who have (co-)authored publications/abstracts*

Essays/Theses/Dissertations directed

Raviteja Surdevara, B.S., BIO 6999, (4 credits)	2015 -16
<i>"Immune cell infiltration in the brain following chronic exposure to alcohol"</i>	
Rohit V. Anand, B.S. Thesis, Honors 4998 (3 credits)	
<i>"Inflammatory cytokines in cancer progression"</i>	2014 - 2015
Preethi U. Sriranga, B.S. Thesis, Bio 6999 (3 credits)	
<i>"Inhibition of Insulin-induced Adipocyte Differentiation by Scutellaria"</i>	2014 - 2015
Sagar Dandawate, M.S. Thesis, BioMed Engineering (6 credits)	
<i>"Studies on the modulation of anti-glioma immune responses by Scutellaria"</i>	2011 - 2012
Marco Centi, M.S. Essay (BMS 7999, 3 credits)	
<i>"An Overview of the Hygiene Hypothesis and Suggestions for Future Research"</i>	2009

John Purakal, M.S. Essay (BMS 7999, 3 credits)
"Supratentorial Primitive Neuroectodermal Tumors: A Literature Review" 2008

WSU 'Undergraduate Research Opportunities Project (UROP)' Awardees supervised

Teja Suryadevara, B.S., Irvin D. Reid Honors College	Spring 2015
Preethi Sriranga, B.S., Irvin D. Reid Honors College	Winter 2014
Rohit Anand, B.S., Irvin D. Reid Honors College	Winter 2014
Andrew Huang, B.S. Kinesiology/Biology	Summer 2012
Mouli Mandalaparty, B.S. BioSciences	Summer 2011
Ajay Gopalakrishnan, B.S., Irvin D. Reid Honors College	Summer 2009

Course or Curriculum Development

Developed and introduced a new lecture on Neuroimmunology as part of
M.S. course Advance Neurophysiology (PSL 7660), Department of Physiology 2008

GRANTS, CONTRACTS, AND OTHER FUNDING

Active National/International Grants and Contracts:

None

Pending National/International Grants and Contracts:

USDA-NIFA CREES grant application

Role: Co-PI on the grant; (PI on WSU sub-contract -15% effort)

Title: Scutellaria trichomes influencereproductive biology, bioactive compound
synthesis and bioactivity(PI: N. Joshee, FVSU, Fort Valley, GA)

09/01/2015-08/31/2018

Total Direct Costs: \$83,154.00

NCI/NIH-R21 grant application

Role: PI (40% effort)

Title: Functional impact of IL-17–IL-17R interaction in glioma stem cells

(Reviewed in October, 2015, Priority score 48; To be re-submitted in March, 2016)

01/01/2017 – 12/31/2017

Total Direct Costs: \$ 275,000.00

Elsa U. Pardee Foundation grant application

Role: PI (25% effort)

Title: IL-17R as a functional target on glioma stem cells

(Reviewed in September, 2015; To be re-submitted in June, 2016)

11/01/15 - 10/31/16

Total Direct Costs: \$98,546.00

Previously Funded Grants and Contracts (Extramural):

NIFA-USDA- 2011-38821-30928.

Role: Co-PI on the grant; (PI on WSU sub-contract – 15% Effort)

Title: 'Germplasm conservation, anti-adipocytic and anticancer activity, and metabolic
engineering in the genus Scutellaria'. (PI: N Joshee, FVSU)

Source: USDA/National Institute of Food & Agriculture (NIFA)
09/01/2011 -08/31/2015
Total Direct Costs: \$ 77,207.00

BioMedCore, Inc. Research Contract 016809-001
Role: PI (15% Effort)
Title: Model Development Toward Studying Drug Sensitivity of Tumor Tissue
01/01/2013 – 03/31/2014
Total Direct Costs: \$ 36,150.00

NIH-1R01 CA116257-01A1
Role: Co-Investigator (10% Effort)
Lactate transport as a therapeutic target in glioma
2006-2013
Total Direct Costs: \$1,000,000.00

USDA-CSREES 2008-38814-04737
Role: Co-PI on the grant; (PI on the WSU Sub-contract – 15% Effort).
Title: *Scutellaria* as a medicinal crop: cryopreservation ... and anticancer activity
2008-2012
Budget: \$ 91,553.00

USDA-CSREES
Role: University Collaborator (PI on WSU subcontract)
Title: Harnessing agri-biotechnology to establish *Scutellaria* as a medicinal crop.
2004-2008
Budget: \$15,000.00

Laboratory for Education and Research in Neurosciences (LEARN) Foundation
Role: PI.
Title: Dendritic cell stimulated T and NK-T cells for immunotherapy of human gliomas.
2002-2004
Budget: \$ 11,000.00

Previously Funded Grants and Contracts (Intramural):

WSU-Undergraduate Research Opportunity Project (UROP)
Role: PI (Student Awardee: Teja Suryadevara)
Title: Immune cell infiltration in the brain following intermittent alcohol exposure
01/05/2015 – 06/30/2015
Budget: \$3,050.00

WSU-KCI Core Incentive Award
Role: PI
Title: Immunologic study of malignant gliomas via flow-cytometry and fluorescent microscopy
07/01/2014-12/31/2014
Budget: \$ 2,500.00

WSU-Undergraduate Research Opportunity Project (UROP)
Role: PI (Student Awardee: Rohit Anand)
Title: Role of inflammatory cytokines in brain metastasis of NSCLC
06/01/2014-12/31/2014
Budget: \$ 3,050.00

WSU-Undergraduate Research Opportunity Project (UROP)
Role: PI (Student Awardee: Preethi Sriranga)
Title: Role of inflammatory cytokines in brain metastasis of NSCLC
06/01/2014-12/31/2014

Budget: \$ 3,050.00

WSU-Undergraduate Research Opportunity Project (UROP)
Role: PI (Student Awardee: Andrew Huang)
Title: Role of inflammatory cytokines in brain metastasis of NSCLC
06/01/2012-12/31/2012
Budget: \$ 3,050.00

WSU-Undergraduate Research & Creativity Award
Role: PI (Student Awardee: Ajay Gopalakrishnan)
Title: Studies on Molecular Interactions Among Scutellaria Flavonoids for Anti-Glioma Activity
06/01/2009-12/31/2009
Budget: \$ 3,050.00

PUBLICATIONS

Peer-Reviewed Publications

Reports of Original Work

1. **Parajuli P**, Anand RV, Mandalaparty C, Suryadevara R, Sriranga PU, Michelhaugh SK, Cazacu S, Finniss S, Thakur A, Lum LG, Schalk D, Brodie C, Mittal S: Preferential Expression of Functional IL-17R in Glioma Stem Cells: Potential Role in Self-Renewal. *Oncotarget*, Jan 8, 2016.
**R.V Anand, C. Mandalaparty, R Suryadevara and PU Sriranga are undergraduate research trainees in the lab*
2. Michelhaugh KS, Guastella RA, Varadarajan K, Klinger VN, **Parajuli P**, Ahmad A, Sethi S, Aboukameel A, Kioussis S, Zitron MI, Ebrahim AS, Polin AL, Sarkar HF, Bollig-Fischer A, Mittal S: Development of patient-derived xenograft models from a spontaneously immortal low-grade meningioma cell line, KCI-MENG. *Journal of Translational Medicine*, **13**:227, 2015
#My contribution was to design/perform intracranial injection and provide data analysis.
3. Paladugu M, Thakur A, Lum LG, Mittal S, **Parajuli P**: Generation and immunologic functions of Th17 cells in malignant gliomas. *Cancer Immunology and Immunotherapy* 62(1): 75-86, 2013
**M. Paladugu was a trainee (graduate student) in the lab*
4. *Dandawate S, *Williams L, Joshee N, Rimando AM, Mittal S, Thakur A, Lum LG, **Parajuli P**: Scutellaria extract and wogonin inhibit tumor-mediated induction of T(reg) cells via inhibition of TGF- β 1 activity. *Cancer, Immunology, and Immunotherapy* 61(5): 701-711, 2012
**S. Dandawate (graduate student) and L Williams (undergraduate student) were trainees in the lab*
5. **Parajuli P**, Joshee N, Chinni SR, Rimando AM, Mittal S, Sethi S, Yadav AK: Delayed growth of glioma by Scutellaria flavonoids involve inhibition of Akt, GSK-3, and NF- κ B signaling. *Journal of Neuro-Oncology* 101(1), 15-24, 2011
6. **Parajuli P**, Joshee N, Rimando AM, Mittal S, Yadav AK: In vitro anti-tumor mechanisms of various Scutellaria extracts and their constituent flavonoids. *Planta medica*: 75(1): 41-48, 2009
7. **Parajuli P**, Mathupala SM, Sloan, AE: Systematic comparison of dendritic cell based immunotherapeutic strategies for malignant gliomas: in vitro induction of cytolytic and NK-like T cells. *Neurosurgery*, 55:1194-1204, 2004
8. Mathupala SP, **Parajuli P**, Sloan AE: Silencing of Monocarboxylate Transporters via Small Interfering Ribonucleic Acid Inhibits Glycolysis and Induces Cell Death in Malignant Glioma: An in vitro study. *Neurosurgery*, 55:1410-1419, 2004
#My contribution was to design/perform flow-cytometry experiments and provide data analysis

9. Sloan AE, **Parajuli P**: Human Autologous Dendritic Cell-Glioma Fusions: Feasibility and Capacity to Stimulate T cells with Proliferative and Cytolytic Activity. *Journal of Neuro-Oncology*, 64:177, 2003
10. Sang H, Pisarev VM, Munger C, Robinson S, Chavez J, Hatcher L, **Parajuli P**, Guo Y, Talmadge JE: Regional, but not Systemic Recruitment/Expansion of Dendritic Cells by a Pluronic-formulated Flt3-Ligand Plasmid with Vaccine Adjuvant Activity. *Vaccine*, 21:3019, 2003
#My contribution was to prepare the plasmid construct, design the DC vaccine experiment, and assist with data analysis and manuscript preparation
11. Pisarev VM, **Parajuli P**, Mosley RL, Chavez J, Zimmerman D, Winship D, Talmadge JE: Flt3 ligand and conjugation to IL-1peptide as adjuvants for a type 1, T-cell response to an HIV p17 gag vaccine. *Vaccine*, 20:2358-2368, 2002
#My contribution was to sub-clone the HIVp17 gag plasmid construct, and assist Dr. Pisarev with all experiments, data analysis and manuscript preparation
12. Mosley RL, **Parajuli P**, Vladimir P, Meeks A, Steffel A, Leutzinger C, Talmadge JE: Flt3 Ligand Augmentation of T Cell Mitogenesis And Expansion of Type 1 Effector/Memory T Cells. *International Immunopharmacology*, 2:925-940, 2002
#I assisted Dr. Mosley with the mice experiments, data analysis and manuscript preparation
13. **Parajuli P**, Vladimir P, Sublet J, Steffel A, Varney M, Singh RK, Laface D, Talmadge JE: Immunization with wild-type p53 gene sequences co-administered with Flt3 ligand induces an antigen-specific type 1 T Cell Response. *Cancer Research*, 61 (22):8227-8234, 2001
14. **Parajuli P**, Mosley RL, Vladimir P, Chavez J, Ulrich A, Varney M, Singh RK, Talmadge JE: Flt3 Ligand and Granulocyte-Macrophage Colony-Stimulation Factor Preferentially Expand and Stimulate Different Dendritic Cell and T cell Subsets. *Journal of Experimental Hematology*, 29(10):1185-1193, 2001
15. **Parajuli P**, Yanagawa H, Hanibuchi M, Takeuchi E, Miki T, Yano S, Sone S: Humanized anti-ganglioside GM2 antibody is effective to induce antibody-dependent cell-mediated cytotoxicity in mononuclear cells from lung cancer patients. *Cancer Letters*. 165:179-184, 2001
16. Hanibuchi M, Nishioka Y, Yanagawa H, Yano S, **Parajuli P**, Bando M, Sone S: Human interferon-gamma enhances expression of ganglioside GM2 on human lung cancer cells and their susceptibility for antiganglioside GM2 monoclonal antibody-dependent cellular cytotoxicity. *Oncology Research*; 12(4):173-179, 2001
#I performed the in vitro cytotoxicity assay and assisted Dr. Hanibuchi with data analysis and manuscript preparation
17. Pisarev VM, **Parajuli P**, Mosley RL, Sublet J, Kelsey L, Sarin PS, Zimmerman DH, Winship MD, Talmadge JE: Flt3 ligand enhances the immunogenicity of a gag-based HIV-1 vaccine. *International Journal of Immunopharmacology*, 22(11):865-876, 2000
#I sub-cloned the HIVp17 gag plasmid construct, and assist Dr. Pisarev with all experiments, data analysis and manuscript preparation
18. Robinson S, Mosley RL, **Parajuli P**, Pisarev V, Sublet J, Steffel A, Ulrich A, Talmadge JE. Comparison of the Hematopoietic Activity of Flt3 Ligand (FL) and Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF) Acting Alone, or in Combination. *Journal of Hematotherapy and Stem Cell Research*, 9(5):711-720, 2000
#My contribution was to prepare the FL plasmid construct, and assist Dr. Robinson with the flow-cytometry experiment, data analysis and manuscript preparation
19. **Parajuli P**, Hanibuchi M, Nokihara H, Nishioka Y, Yanagawa H, Singh SM, Sone S: Cytolysis of human dendritic cells by autologous lymphokine-activated killer cells: Participation of both T cells and NK cells in the killing. *Journal of Leukocyte Biology*, 65:764, 1999
20. **Parajuli P**, Yano S, Nishioka Y, Nokihara H, Hanibuchi M, Nishimura N, Utsugi T, Sone S. Therapeutic efficacy of a new topoisomerase I and II inhibitor TAS-103, against both P-

glycoprotein-expressing and –nonexpressing drug-resistant human small-cell lung cancer. *Oncology Research*, 11(5):219-224, 1999

21. Yano S, Nokihara H, Hanibuchi M, # **Parajuli P**, Shinohara T, Kawano T, Sone S: Model of malignant pleural effusion of human lung adenocarcinoma in SCID mice. *Oncology Research*, 9:573, 1998
#I assisted Dr. Yano with the in vivo experiments, data analysis and manuscript preparation
22. **Parajuli P**, Nokihara H, Yano S, Hanibuchi M, Sone S: Effect of clarythromycin on the metastasis of human lung cancer cells in SCID mice. *The Journal of Medical Investigation*, 44: 205, 1998
23. Shrivastava P, Hanibuchi M, Yano S, #**Parajuli P**, Tsuruo T, Sone S: Circumvention of multidrug resistance by a quinoline derivative, MS-209, in multidrug-resistant human small cell lung cancer cells and its synergistic interaction with cyclosporine A or verapamil. *Cancer Chemotherapy and Pharmacology*, 42:483, 1998
#My contribution was to design/perform in vitro cytotoxicity experiments and assist with data analysis and manuscript preparation
24. Pai K, Yanagawa H, Takeuchi E, Suzuki Y, Hanibuchi M, #**Parajuli P**, Sone S: Differential effect of interleukin 10 on interleukin 12- and interleukin-2-mediated killer induction from blood mononuclear cells. *Oncology Research*, 10:295, 1998
#My contribution was to design/perform in vitro cytotoxicity experiments and assist with data analysis and manuscript preparation
25. **Parajuli P**, Singh SM: Ascitic growth of a T-cell lymphoma in mice alters the humoral and cellular immune response to exogenous antigens. *Tumor Biology*, 18:69, 1997
26. **Parajuli P**, Kumar A, Singh SM: Alterations in tumoricidal function of murine tumor-associated macrophages along with the progressive growth of tumor in vivo. *Cancer Journal*, 10:222, 1997
27. **Parajuli P**, Singh SM: Alteration in IL-1 and arginase activity of DL-associated macrophages: a role in the promotion of tumor growth. *Cancer Letters*, 107:249-256, 1996
28. Kumar A, #**Parajuli P**, Singh SM: Gangliosides produced by a T-cell lymphoma inhibit the production of reactive intermediates by murine peritoneal macrophages. *Journal of clinical biochemistry and nutrition*, 21:171, 1996
#My contribution was to isolate peritoneal macrophages and assist with in vitro experiments, data analysis and manuscript preparation
29. **Parajuli P**, Singh SM, Kumar A: Effect of cisplatin and FK565 on the activation of tumor-associated and bone marrow-derived macrophages by Dalton's Lymphoma. *International Journal of Immunopharmacology*, 17:107, 1995
30. **Parajuli P**, Singh SM: Modulation of hemopoiesis in normal and tumor-bearing mice on in vivo administration of FK565. *International Journal of Immunopathology and Pharmacology* 8:103-111, 1995
31. Kumar A, Singh SM, #**Parajuli P**: Modularity effect of Dalton's Lymphoma cells on the production of reactive nitrogen intermediates, interleukin-1 and tumor necrosis factor by murine peritoneal macrophages. *Neoplasma*, 41: 363-369, 1994.
#My contribution was to isolate peritoneal macrophages, perform TNF assay and assist with data analysis and manuscript preparation

Review Articles

1. **Parajuli P** and Mittal S. Role of IL-17 in glioma progression. *J Spine Neurosurg*, S1-004, 2013.
2. *Patel P, Joshee N, Mittal S, **Parajuli P**. Anti-cancer mechanisms of wogonin and related Scutellaria flavonoids, *Cur Cancer Ther Rev*, Vol.9: 34-42, 2013
**P Patel was a trainee (undergraduate student) in the lab*

3. Mathupala SP, *Colen CB, #**Parajuli P**, Sloan AE: Lactate and malignant tumors: A therapeutic target at the end stage of glycolysis. *Journal Bioenerg Biomembr*, 39:73-77, 2007
**C Colen was a trainee (Resident) in the lab: #My contribution was to provide critical analysis of literature with respect to the biology of gliomas*
4. **Prahlad Parajuli**, Saroj Mathupala, Sandeep Mittal, Andrew E. Sloan: Dendritic cell-based active-specific immunotherapy for malignant glioma. *Expert Opinions Biology Theory*, 7:439-448, 2007
5. Chhetri DR, #**Parajuli P**, Subba GC: Antidiabetic plants used by Sikkim and Darjeeling Himalayan tribes, India. *Journal of Ethnopharmacology*, 99:199-202, 2005
#My contribution was to provide critical analysis of literature with respect to the biomedical properties of the plants
6. **Prahlad Parajuli**, Andrew E. Sloan: Dendritic cell-based immunotherapy of malignant gliomas. *Cancer Investigation*, 22:405-416, 2004
7. S.M. Singh, #**P. Parajuli**, A. Sodhi, A. Shrivastava: Alteration of the immune response by tumor cells: underlying mechanisms. *International Journal of Immunopathology and Pharmacology*, 10: 27, 1997
#My contribution was to critically review the literature and write most of the manuscript. This review article was based on the first chapter of my Ph.D. thesis

Book Authorships, Editorships, and Chapters

1. Hussain F, Mittal S, Joshee N and **Parajuli P**: Application of Bioactive Compounds from *Scutellaria* in Neurologic Disorders. In: *The Benefits of Natural Products for Neurodegenerative Diseases*, Mohamed M, Mohamed A and Gullemin G (Eds), Springer-Verlag, Heidelberg Germany, 2015
**F. Hussain was a trainee (Year II Medical student) in the lab*
2. N. Joshee, A. Tascan, Fabricio Medina-Bolivar, **P. Parajuli**, A. M. Rimando, Dennis A Shannon, J. W. Adelberg. *Scutellaria: Biotechnology, Phytochemistry and its Potential as a Commercial Medicinal Crop*, in *Biotechnology for Medicinal Plants: Micropropagation and Improvement*, S. Chandra et al (Eds.), Springer-Verlag, Heidelberg Germany, pages 69-99, 2013.
3. Joshee N, Rimando AM, **Parajuli P**, Rawat GS, and Yadav AK: Investigating two medicinal *Scutellaria* species of Himalayan origin. In: *Advances in Agriculture, Environment, and Health; Fruits, Vegetables, Animals and Biomedical Sciences* (Eds. Singh SB, Chaurasia, OP, Yadav, A, Rimando, AM, and Terrill, TH). Pp. 347-356. SS Publishing House, Delhi, India. 2009

Published Abstracts

1. **Parajuli P**, Anand RV, Mandalaparty C, Suryadevara R, Sriranga PU, Michelhaugh SK, Thakur A, Lum LG, Brodie C, Mittal S Functional IL-17R in glioma stem cells: potential role in tumor progression and therapeutic implications. *Journal for Immunotherapy of Cancer*, 3 (Suppl2):p412, 2015.
2. Michelhaugh KS, Guastella RA, Klinger VN, #**Parajuli P**, Thakur A, Lum LG, Mittal S. "Targeting glioblastoma with bispecific antibody-armed activated T cells". *Neuro-Oncology*, 17:v113-v123, 2015.
3. N Joshee, **P Parajuli**, A Rimando. Skullcaps: Lesser Known Medicinal Genus from Lamiaceae. *In Vitro Cell & Dev Biol-Plant*, 50 (4):508, 2014
4. **P Parajuli**, *M Mandalaparty, C Brodie, LG Lum, A Thakur, S Mittal. Role of Th17/IL-17 inflammatory axis in the progression of malignant gliomas (P2095). *J Immunol*, 190:170.4, 2013,
**M. Mandalaparty was a trainee (undergraduate research assistant) in the lab*
5. C Mandalaparty, A Huang, S Mittal, A M Rimando, Q P Dou, **P Parajuli**, "Immuno-sensitization of malignant gliomas by natural polyphenols". *Cancer Res*, 73 (8 Suppl): 3982, 2013.

**M. Mandalaparty and A Huang were trainees (undergraduate students) in the lab*

6. **P Parajuli**, S Mittal, S Chinni, L Lum, A Thakur, M Guthikonda, Interaction between tumor and myeloid cells induce/expand th17 cells in malignant gliomas. *J Immunol*, 186:48.28, 2011.
7. N Joshee, P Parajuli, F Medina-Bolivar, A M Rimando, A K Yadav *Scutellaria* biotechnology: achievements and future prospects. *Bulletin Univ Agri Sci Vet Med Cluj-Napoca. Horticulture*, 67 (1): 24, 2010.
8. **P Parajuli**, N. Joshee, A. Rimando, S. Mittal and A.K. Yadav. "Anti-tumor Mechanisms of Various *Scutellaria* Extracts and Constituent Flavonoids". Annual Meeting of Society for In Vitro Biology (SIVB), Charlston, NC, June 6-10, 2009

PRESENTATIONS

Podium Presentations (refereed)

1. "Induction of Th17 cells in malignant gliomas" at the 14th Annual Meeting of the Translational Research Cancer Centers Consortium, Seven Springs, PA, February 2011
2. "Anti-tumor Mechanisms of Various *Scutellaria* Extracts and Constituent Flavonoids". Annual Meeting of SIVB, Charlston, NC, June 2009.
3. "Administration of wild type p53 genetic vaccine with Flt3 ligand Induces a tumor-specific type 1 T-cell response." Eighth International Conference on Gene Therapy of Cancer, San Diego, CA, December 1999.
4. "Circumvention of multidrug resistance by a quinoline derivative, MS-209, in multidrug resistant human small cell lung cancer cells and its synergistic interaction with cyclosporine A or verapamil." Annual Conference of Japanese Cancer Society, Kyoto, 1998.

Poster Presentations (refereed)

1. **Parajuli P**, Anand RV, Mandalaparty C, Suryadevara R, Sriranga PU, Michelhaugh SK, Thakur A, Lum LG, Brodie C, Mittal S Functional IL-17R in glioma stem cells: potential role in tumor progression and therapeutic implications. Annual Meeting of Society for Immunotherapy of Cancer, 2015.
**R.V Anand, C. Mandalaparty, R Suryadevara and PU Sriranga are undergraduate research trainees in the lab*
2. Michelhaugh KS, Guastella RA, Klinger VN, **Parajuli P**, Thakur A, Lum LG, Mittal S. "Targeting glioblastoma with bispecific antibody-armed activated T cells". Annual Scientific Meeting of the Society for Neuro-Oncology, 2015.
3. Rohit Anand, **Prahlad Parajuli**. "Role of inflammatory axis in the progression of malignant gliomas". NCUR 2014, Lexington, KY, November 2014.
4. Nirmal Joshee, **Prahlad Parajuli**, Agnes Rimando, "Skullcaps: Lesser Known Medicinal Genus from Lamiaceae. World Forum on Biology, Society for In Vitro Biology (SIVB), Savannah, Georgia, May 31 – June 4 2014.
5. **P Parajuli**, *M Mandalaparty, C Brodie, LG Lum, A Thakur, S Mittal. Role of Th17/IL-17 inflammatory axis in the progression of malignant gliomas". Annual Meeting of American Association of Immunologists (AAI), Honolulu, HI, April 2013.
6. C Mandalaparty, A Huang, S Mittal, A M Rimando, Q P Dou, **P Parajuli**, "Immuno-sensitization of malignant gliomas by natural polyphenols". Annual Meeting of American Association of Cancer Research, 2013
7. **P Parajuli**, S Mittal, S Chinni, L Lum, A Thakur, M Guthikonda, Interaction between tumor and myeloid cells induce/expand th17 cells in malignant gliomas. AAI Annual Meeting, San Francisco, CA, April 2011

8. **Parajuli P**, Yu P, Mathupala SP. Novel role for CD56 in lymphocyte co-stimulation: enhancement of cytokine and antigen-induced activation of NK/NK-T cells. Annual Meeting of *American Association of Immunologists*, Boston, April 2006
9. Joshee N, **Parajuli P**, Rimando AM, Yadav AK Flavonoid content and immunomodulatory and apoptosis-induction activities of extracts of leaves, stems and roots of *Scutellaria species*. Annual Meeting of *American Chemical Society*, Atlanta, March 2006.

Invited Lectures/Presentations

1. Keynote Lecture on "Immune-modulatory Mechanisms of Scutellaria" at the 2nd Annual Meeting of American Council for Medicinally Active Plants (ACMAP), Huntsville, AL, July 2011
2. Keynote Lecture on "Anti-cancer Mechanisms of Scutellaria" at the 1st Annual Meeting of American Council for Medicinally Active Plants (ACMAP), New Brunswick, NJ, July 2010.
3. Feature presentation at International Symposium on Medicinal Plants. "Anti-cancer mechanisms of Scutellaria extracts and active ingredients." Fort Valley, GA, March 2007
4. Invited Lecture on "In Vitro Assay Development for Screening Anti-cancer and Immunomodulatory Activities of Medicinal Plant Extracts" at the Annual Meeting of American society of Horticultural Science, Workshop on Medicinal Plants, New Orleans, LA, July 2006
5. Invited Lecture on "Bioactivity screening and Immunodetection". Annual Conference of Society for In Vitro Biology, Baltimore, MD, July 2005
6. Lecture and demo at a workshop 'Teaching Biotechnology to K12 Teachers', Fort Valley State University, GA, July15, 2004
7. "Studies on the immuno-modulatory activities of isolated compounds or extracts obtained from select medicinal plants." Medicinal Plants Workshop at the Centennial Conference of American Society of Horticultural Science, Providence, RI, October 2003.

Invited Seminars and Grand Rounds

1. "Glioma Immunology and Natural Compounds" at the Department of Biochemistry, University of Windsor, ON. March 2015.
2. "Th17 cells and glioma progression" at KCI, Tumor Microenvironment seminar series. September 2014
3. "Anti-cancer and Immune-modulatory activities of Scutellaria Flavonoids" at KCI Breast Cancer Biology Group monthly seminar series. October 2009
4. "Immunologic Aspects of Neurological Disorders" at the Department of Neurosurgery Grand rounds. April 2009
5. "Glioma Immunotherapeutics" at the Department of Neurosurgery Grand rounds. January 2008
6. "Novel NK/NK-T cell co-stimulatory functions for CD56: potential role in anti-cancer and autoimmune responses" at the Department of Immunology-Microbiology monthly seminar series. February 2007
7. "Dendritic cell-based immunotherapy for malignant gliomas" at Neurological Surgery (WSU) Grand Rounds. February 2002
8. "Dendritic cell-based immunotherapy for malignant gliomas" At Biological Therapy Seminars (monthly seminar series at KCI). January 2002
9. Dendritic cell-based immunotherapy for cancer" at Hematology-Oncology (WSU) Grand Rounds. November 2001
10. "Induction of tumor-specific immune response by a p53 genetic vaccine and Flt3 ligand" at Biological Therapy Seminars, KCI. January 2001.