

**Jorge G. Gomez-Gutierrez, Ph.D.**  
505 South Hancock, KCCTR Building, room 452G  
Louisville, KY, 40202  
(502) 852-8464  
(502) 852-3661  
[jgguti01@louisville.edu](mailto:jgguti01@louisville.edu)

---

## **EDUCATION**

Aug/1997-Jun/2001 B.S. in Biology, Autonomous University of Nuevo León, San Nicolás de los Garza, Nuevo León, México.  
Aug/2001-Aug/2006 Ph.D., in Biotechnology, Autonomous University of Nuevo León, San Nicolás de los Garza, Nuevo León, México.

## **ACADEMIC APPOINTMENTS**

May/2003-Aug/2006 Research Fellow  
Department of Surgery  
University of Louisville,  
Louisville, KY, USA.

Aug/2006 to Nov/2011 Research Associated Senior  
Department of Surgery  
University of Louisville  
Louisville, KY, USA

Dec/2011 to present Assistant Professor  
Department of Surgery  
University of Louisville  
Louisville, KY, USA

## **OTHER POSITIONS AND EMPLOYMENT**

## **PROFESSIONAL MEMBERSHIPS AND ACTIVITIES**

2010 - Present Member, American Association for Cancer Research (#142585)

## **HONORS AND AWARDS**

2000 First Place, XVIII National Congress of Biomedical Research, Mexico.

2001 First Place, Tecnos Awards, Mexico

2001 Third Place, XIX National Congress Biomedical Research, Mexico

2001 PhD Scholarship Award Recipient, National Council of Science and Technology (CONACYT) of Mexico

2002 First Place, Youth National Meeting of Science and Technology, Mexico

2008 Distinction Recipient of Candidate to National System of Researchers, (CONACYT) of Mexico

- 2011 Research Award in the Health Science Area for the manuscript published in Cancer 2010, 15;116(18):4420-32, Universidad Autonoma de Nuevo Leon (UANL)
- 2011 Ralph Scott Postdoctoral Fellow Research Prize, 3rd Place, James Graham Brown Cancer Center, Tenth Annual Retreat
- 2012 Clinical Fellow Research Prize 1st Place, Michael Egger, Presenter, and **Jorge G. Gomez-Gutierrez**, Project Director, James Graham Brown Cancer Center Eleventh Annual Retreat
- 2013 Distinction Recipient of National Researcher Level I, National System of Researchers (CONACYT) of Mexico
- 2014 NCI Cancer Education Program Norbert J. Burzynski Award Professional Student Category 2nd Place, Eric Riedinger, Presenter, and **Gomez-Gutierrez JG**, Project Director, Research Louisville
- 2015 Partner Travel Research Scholarship (University of Louisville-Cornell University) recipient to attend the Society of Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference, Washington DC (Poster). Perez-Hernandez R. (presenter), **Gomez-Gutierrez JG** (project director).
- 2016 Research Award in the Health Science Area for the Master Thesis of Elvis Martinez-Jaramillo, **Gomez-Gutierrez JG** (external project director). Autonomous University of Nuevo Leon (UANL, Spanish), Mexico.
- 2017 Best Master Thesis in the Health Science Area (Elvis Martinez-Jaramillo, student), (**Gomez-Gutierrez JG**, external project director). Autonomous University of Nuevo Leon (UANL, Spanish), Mexico.
- 2017 Distinction Recipient of National Researcher Level II, National System of Researchers (CONACYT) of Mexico.
- 2017 NCI Cancer Education Program Norbert J. Burzynski Award Undergraduate Student Category 2nd Place, Roxana Gonzalez-Ramos, Presenter, and **Gomez-Gutierrez JG**, Project Director, Research Louisville 2017

## COMMITTEE ASSIGNMENTS AND ADMINISTRATIVE SERVICES

### Study Section/Scientific Reviewer Experience

- 2016 NIH/NCI Special Emphasis Panel for PAR-16-176 NCI's Clinical and Translational Cancer Research R21.
- 2017 Department of Defense, Congressionally Directed Medical Research Program, 2017 December Meeting - CA, LC, MS, PC, PR, and TB – Peer Review Cancer Research Program, Idea Award with Special Focus Proposal Review, W81XWH-17-PRCRP-IA (SRO, Lynne S. Padgett, PhD)

## EDUCATIONAL ACTIVITIES

- 2011-2013 Mentoring Clinical Fellow, Michael Egger, MD  
Project Title: *Viral-mediated Gene Therapy in Combination with Temozolomide in Melanoma*
- Summer 2013 R25 Cancer Education Program, Mentoring 1<sup>st</sup> year School of Medicine student, Jonathan Nitz  
Project Title: *Enhancement of Oncolytic Adenovirus Therapeutic Efficacy by Combination with Temozolomide.*

Summer 2014 R25 Cancer Education Program, Mentoring 1<sup>st</sup> year School of Medicine student, Eric Riedinger  
Project Title: *Developing an Immunocompetent Mouse Lung Cancer Model for the Evaluation of Virotherapy Effectiveness.*

Summer 2015 R25 Cancer Education Program, Mentoring undergraduate student from Cornell University, Rigoberto Perez, Project Title: *Targeting Breast Cancer via Viral-Chemotherapy.*

2015 Mentoring Master Student, Elvis Martinez-Jaramillo MD, Thesis title: *Assessment of Cytopathic Effect Induced by Oncolytic Adenovirus on a Cell Line Used as Cervical Cancer Model.*  
Role: External Project Director.

Summer 2017 R25 Cancer Education Program, Mentoring undergraduate student from Bellarmine University, Roxana Gonzalez-Ramos, Project Title: *Enhancement of Triple Negative Breast Cancer Virotherapy via Alkylating Agent-Induced Autophagy.*

Summer 2018 R25 Cancer Education Program, Mentoring undergraduate student from University of Louisville, Alana Gipson, Project Title: *Targeting Breast Cancer Resistance to Palbociclib via Oncolytic Virotherapy.*

Se Habla Español Program (program director: Dr. Claudio Maldonado) Teaching Medical Spanish to 1st year school of medicine students

## SERVICE ACTIVITIES

2011 to present      **Judge** of poster presentations at Research Louisville

## GRANTS AND CONTRACTS (Number each grant)

### Current Grants:

**1. NIH/NCI                      (30% effort)                      03/09/17-03/08/19                      Direct cost: \$368,000**  
**1R21CA210202-01A1**

#### **Targeting melanoma hypoxia with lactic acid bacterium *L.lactis***

Hypoxia is a component of the tumor microenvironment, which reduces efficacy of both immuno- and chemotherapies resulting in poor clinical outcome. Facultative anaerobic bacteria are self-propelled and can penetrate into non-vascularized tissue regions and have the ability to target hypoxic regions to improve tumor specificity. We believe that food-grade *L. lactis* bacterium will preferentially colonize the hypoxic areas of the tumor microenvironment to deliver reporter genes in a safe, tumor-specific, and effective manner. We will to determine biodistribution and tumor accumulation of *L. lactis* by using multispectral optoacoustic tomography.

**Role: Principal Investigator**

**2. NIH/NCI R25CA134283                      Hein DW (PI)                      09/14/11-03/31/22**  
**University of Louisville Cancer Education Program (Participation years: 2013, 2014, 2015, 2017 and 2018).**  
Cancer incidence, morbidity and mortality in the Commonwealth of Kentucky are among the highest in the nation. The mission of the James Graham Brown Cancer Center is to reduce cancer incidence, morbidity and mortality. The long-term objective of the University of Louisville Cancer Education Program is to recruit, educate and motivate outstanding undergraduate and professional students to pursue further training and future careers in cancer research.

**Role: Mentor**

**3. Executive VP of Research and Innovation Internal Research Grant                      06/01/2018 – 05/31/2019**  
**Enhancing the translational potential of adenoviral oncolysis via liposome encapsulation.** The overall goal of this proposal is to develop a liposome encapsulated human OAd that maintains effective transduction efficiency of mouse lung tumor cells *in vitro* while protecting against OAd neutralizing antibodies *in vivo*.  
**Role: Multiple Principal Investigator (Hood J and Gomez-Gutierrez JG, MPI)**

#### **4. Burroughs Wellcome Fund Travel Grant**

**07/01/2018 – 12/31/2019**

**Detection of *L. lactis* colonization within hypoxic tumor microenvironment by multispectral optoacoustic tomography.** The overall goal of this proposal is to establish a collaboration between researchers to assembling a multidisciplinary research team. In our particular case, the PI is a microbial-base cancer therapist at UofL and the host PI is an expert in animal imaging at WF University. The team will determine whether food-grade LAB *L. lactis* can preferentially colonize the hypoxic tumor microenvironment.

#### **Pending Grants:**

**1. DoD, Breast Cancer Program (15% effort) 09/01/19-08/31/2022 Direct cost: \$350,000**  
**Targeting Breast Cancer Resistance to Palbociclib via Oncolytic Virotherapy.** The objective of this proposal is to examine oncolytic virotherapy as a novel strategy for the treatment of palbociclib-resistant breast cancer.  
**Role: Co-PI**

**2. NIH/NCI R01 (30% effort) 04/01/19-03/31/2023 Direct cost: \$1,000,000**  
**Enhancing viral-chemotherapy-mediated lung cancer immunity by SA-4-1BB costimulation.** Our goal is to investigate, in a more clinically relevant mouse model, whether the combination of OAd+TMZ+SA-4-IBBL can result in a potent viral-oncolysis and antitumor immunity.  
**Role: Principal Investigator**

**3. NIH/NCIR21 (15% effort) 04/01/19-03/31/2021 Direct cost: \$275,000**  
**Palbociclib plus oncolytic virotherapy as a new approach for treating breast cancer.** The major objective for this project is to evaluate the combination of a CDK4/6 inhibitor, such as palbociclib, with oncolytic virotherapy as a novel strategy for improving treatment of advanced breast cancer.  
**Role: Multiple Principal Investigator (Imbert-Fernandez Y and Gomez-Gutierrez JG, MPI)**

#### **Past Grants:**

1. Grant Title: Selectively Inducing Apoptosis in Cancer Cells with Truncated E2F-1 Lacking Transcriptional Activity  
Agency: Kentucky Lung Cancer Research Foundation (McMasters PI)  
Direct Cost: \$50,000  
Role: Co-investigator; Percent Effort: 12%; Period: 11/01/08-10/31/09
2. Grant Title: Develop a prognostic scoring system in node negative melanoma patients  
Agency: Melanoma Research Foundation (McMasters PI)  
Direct Cost: \$180,000  
Role: Research Associate; Percent Effort: 10%; Period: 1/1/10-12/31/11
3. Grant Title: Enhancement of E2Ftr-mediated tumor suppression by oncolytic adenovirus  
Agency: Lung Cancer Research Foundation  
Direct Cost: \$100,000  
Role: Principal investigator; Percent Effort: 15%; Period: 11/01/10-04/30/13
4. Grant Title: Adenovirus E1B55K Functions Related to Oncolytic Replication  
Agency: 1R01CA129975-01A1 NIH/NCI (Zhou PI)  
Direct Cost: \$1,015,560  
Role: Research Associate Senior (Year 1 only); Period: 3/1/09-2/28/10

## EDITORIAL WORK

2010 - present Editorial Board Reviewer, Journal of Cell and Animal Biology

2010 - Present Editorial Board Reviewer, International Journal of Medicine and Medical Sciences

2010 - Present Editorial Board Reviewer, International Journal of Biomedical Science

2012 - Present Editorial Board Reviewer, Journal of Gene Medicine

2017 - Present Editorial Board Reviewer, Experimental and Therapeutic Medicine

## ABSTRACTS AND PRESENTATIONS

### ORAL PRESENTATIONS

1. Price Institute of Surgical Research, Seminar 08/23/2012, Louisville, KY (**invited**)  
Title: Enhanced Cancer cell killing by truncated E2F-1 used in combination with oncolytic adenovirus
2. The Poa Pratensis Molecular Target Program and Brown Cancer Center Joan Cralle Day Cancer Research Fund May 9 2013, Louisville, KY (**invited**).  
Title: Promotion of Autophagy Enhances Oncolytic Virotherapy
3. 3<sup>rd</sup> International Conference on Vaccines & Vaccination July 29-31, 2013 Embassy Suites Las Vegas, USA. Title: Vaccination with an adenoviral vector expressing calreticulin human papillomavirus 16 E7 fusion protein eradicates E7 expressing established tumors in mice.

### POSTERS (State name of conference and location)

#### International Meetings

1. **Gómez Gutiérrez JG**, Bermúdez Humarán LG, Ruiz Trejo D, Taméz Guerra R and Montes de Oca Luna R. 2000. [Production and Isolation of the *Thermus aquaticus* DNA polymerase from recombinant *Escherichia coli*]. V Regional Congress of Chemistry Students. Monterrey, Nuevo Leon. México. Spanish.
2. **Gómez Gutiérrez JG**, Bermúdez Humarán LG, Ruiz Trejo D, Adame Rodríguez JM, Taméz Guerra R and Montes de Oca Luna R 2000. [Production and Isolation of the *Thermus aquaticus* DNA polymerase from recombinant *Escherichia coli*]. V Symposium of Science and Technology. Monterrey, Nuevo Leon. México. Spanish.
3. **Gómez Gutiérrez JG**, Bermúdez Humarán LG, Ruiz Trejo D, Adame Rodríguez JM, Taméz Guerra R and Montes de Oca Luna R. 2000. [Production and Isolation of the *Thermus aquaticus* DNA polymerase from recombinant *Escherichia coli*]. National Competition of Science and Technology. Monterrey, Nuevo Leon. México. Spanish.
4. **Gómez Gutiérrez JG**, Bermúdez Humarán LG, Ruiz Trejo D, Adame Rodríguez JM, Taméz Guerra R and Montes de Oca Luna R 2000. [Production and Isolation of the *Thermus aquaticus* DNA polymerase from recombinant *Escherichia coli*]. IV International Congress of Genetics and Molecular Biomedicine. Monterrey Nuevo Leon. México. Spanish.
5. **Gómez Gutiérrez JG**, Bermúdez Humarán LG, Ruiz Trejo D, Adame Rodríguez JM, Taméz Guerra R and Montes de Oca Luna R 2000. [Production and Isolation of the *Thermus aquaticus* DNA polymerase from recombinant *Escherichia coli*]. XVIII National Congress Biomedical Research. Monterrey Nuevo Leon. México. Spanish.
6. **Gómez Gutierrez JG**, Loera Arias MJ, Montes de Oca R, Flores Gonzalez JP, Ancer Rodríguez J, Barbosa Quintana O, Garza Guajardo R and Adame Rodríguez JM. 2001. [Molecular Detection of the

- Proto-Oncogen Her-2/Neu Amplification by Semiquantitative PCR in Breast Cancer Patients]. XIX National Congress Biomedical Research. Monterrey Nuevo Leon. México. Spanish
7. **Gómez Gutierrez JG**, Loera Arias MJ, Montes de Oca R, Flores Gonzalez JP, Ancer Rodríguez J, Barbosa Quintana O, Garza Guajardo R and Adame Rodríguez JM. 2002. [Molecular Detection of the Proto-Oncogen Her-2/Neu Amplification by Semiquantitative PCR in Breast Cancer Patients]. XXVI National Congress of Human Genetics. Puerto Vallarta, Jalisco, México. Spanish.
8. **Gómez Gutierrez JG**, Loera Arias MJ, Montes de Oca R, Flores Gonzalez JP, Ancer Rodríguez J, Barbosa Quintana O, Garza Guajardo R and Adame Rodríguez JM. 2002. [Molecular Detection of the Proto-Oncogen Her-2/Neu Amplification by Semiquantitative PCR in Breast Cancer Patients]. VII National Symposium of Science and Technology. Monterrey. Nuevo Leon. México. Spanish
9. **Gómez Gutiérrez JG**, Adame Rodríguez JM, Rodríguez Padilla C and Montes de Oca Luna R 2002. [Construction of Adenoviral Vectors that Express Proteins of Therapeutic Importance]. V National Congress of Molecular Biology in Medicine. Aguascalientes, Aguascalientes México. Spanish.
10. Villatoro Hernandez J, **Gomez Gutierrez JG**, Bermudez Humaran LG, Rodríguez Padilla C and Montes de Oca Luna R. 2002. [Lactococcus Lactis *a vector new to produce and to secreter human IP-10 (IFN- $\gamma$ -inducible 10 Protein)*]. V National Congress of Molecular Biology in Medicine. Aguascalientes, Aguascalientes, México. Spanish.
11. **Gómez Gutierrez JG**, Loera Arias MJ, Montes de Oca R, Flores Gonzalez JP, Ancer Rodríguez J, Barbosa Quintana O, Garza Guajardo R and Adame Rodríguez JM. 2002. [Development of a Quantitative Differential PCR to detect Her-2/Neu Oncogene Amplification in Breast Cancer and Relationship with Histopatologic]. State Meeting of Health Research. Monterrey Nuevo León, México. Spanish.
12. Villatoro Hernandez J, **Gomez Gutierrez JG**, Bermudez Humaran LG, Rodríguez Padilla C and Montes de Oca Luna R. 2002. [Construction *Lactococcus lactis* Strain that express the IP-10 Chemokine 10 (IFN- $\gamma$ -inducible 10 Protein)]. XXVII National Congress of Human Genetics. Veracruz, Veracruz, México. Spanish.
13. Loera Arias MJ **Gómez Gutierrez JG**, Montes de Oca R, Flores Gonzalez JP, Ancer Rodríguez J, Barbosa Quintana O, Garza Guajardo R and Adame Rodríguez JM. 2002. [Relationship Her-2/Neu Oncogene Amplification with Levels Expression and Histopatologic Parameters]. XX National Congress Biomedical Research. Monterrey Nuevo Leon, México. Spanish.
14. Villatoro Hernandez J, **Gomez Gutierrez JG**, Bermudez Humaran LG, Rodríguez Padilla C and Montes de Oca Luna R. 2002. [Construction *Lactococcus Lactis* recombinants two strain that espress the IP-10 Chemokine of Human and Mouse]. XX National Congress Biomedical Research. Monterrey Nuevo Leon, México. Spanish.
15. Montes de Oca Luna R, García García A, **Gómez Gutiérrez JG**, Zhou S, McMasters K. 2011. [Mutant E2F-1 activates the cell death mechanism of prograded cell death II: Autophagy]. XVI National Congress Biomedical Research. Monterrey Nuevo Leon, México. Spanish.

### National Meetings

1. **Gomez-Gutierrez JG**, Rao X-M, Hao HY, Zhou S, McMasters K. 2008. [Construction and characterization of adenoviral vectors encoding E2F truncated gene under regulation of Tet-Off system]. AACR Annual Meeting, San Diego, CA, USA.
2. Rao XM, **Gomez-Gutierrez JG**, Hao HY, McMasters K, Zhou S. 2008. [Cyclin E overexpression induced by adenovirus oncoproteína E1B55k]. AACR Annual Meeting, San Diego, CA, USA.
3. Hao HY, Chen C, Slomiany B, **Gomez-Gutierrez JG**, Zhou HS, McMasters KM. 2008. [Truncated E2F-1-induced apoptosis is mediated by Hrk that is functional involved with p32 and DREAM]. AACR annual Meeting, San Diego, CA, USA.
4. Hao H, Ohlendorf J, Taylor D, **Gomez-Gutierrez J**, Zacharias W, and McMasters K. 2011. [Identifying exosomal mRNA, microRNA and protein signatures in melanoma cells]. AACR 102nd Annual Meeting; Orlando, FL

5. Egger ME, **Gomez-Gutierrez JG**, Hao H, Zhou HS, Kelly M. McMasters. 2012[Viral-mediated gene therapy in combination with temozolomide in melanoma]. The American College of Surgeons 98th Annual Clinical Congress, Chicago, Illinois, USA.
6. Zeiderman M, Khanal A, Kimbrough CW, **Gomez J**, Grizzle WE, McMasters KM, McNally LR. 2015. [Detection of pancreatic cancer using acidic pH targeted probes detected using multispectral optoacoustic tomography]. AACR Annual Meeting, Philadelphia, PA, USA.
7. Perez-Hernandez R, Zhou HS, Sharma R, McMasters KM, **Gomez-Gutierrez JG**. 2015 [Targeting Breast Cancer via Viral-Chemotherapy]. Society of Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference, Washington DC, USA.
8. Gonzalez-Ramos R, Chiba A, McNally L, McMasters KM, **Gomez-Gutierrez JG**. 2017 [Enhancement of Triple Negative Breast Cancer Virotherapy via Alkylating Agent-Induced Autophagy]. NCI Microbial Base Cancer Therapy Conference, Natcher Center, NIH Campus, Bethesda Maryland, USA.

#### **Poster Presentations: Local/Regional Meetings**

1. **Gomez-Gutierrez JG**, Montes de Oca Luna R, Zhou HS. and McMasters K. 2003. [Expression of Chemokine Interferon- $\gamma$  (INF- $\gamma$ ) inducible Protein-10 (IP-10) by a Recombinant Adenovirus]. Research Louisville 2003. Louisville, KY, USA.
2. **Gomez-Gutierrez JG**, Gelpek K, Zhou SH, Shirwan H, Montes de Oca Luna R and McMasters K. 2004. [Cellular Immune Response Against Cells that Express HPV-16 E7 mediated by Dendritic Cells Transduced with Adenovirus Encoding a Chimeric Antigen]. Research Louisville 2004. Louisville, KY, USA.
3. **Gomez-Gutierrez JG**, Gelpek K, Zhou SH, Shirwan H, Montes de Oca Luna R and McMasters K. 2004. [Cellular Immune Response Against Cells that Express HPV-16 E7 mediated by Dendritic Cells Transduced with Adenovirus Encoding a Chimeric Antigen]. Third James Graham Brown Cancer Center Annual Retreat. Louisville, KY, USA.
4. **Gomez-Gutierrez JG**, Souza V, Hao HY, Montes de Oca-Luna R, Dong YB, Zhou HS and McMasters K. 2005. [Adenovirus-Mediated Gene Transfer of FKHRL1 Triple Mutant Efficiently Induces Apoptosis in Melanoma Cells]. Fourth James Graham Brown Cancer Center Annual Retreat. Louisville, KY, USA.
5. **Gomez-Gutierrez JG**, Elpek KG, Montes de Oca-Luna R, Shirwan H, Sam Zhou H, McMasters KM. 2007. [Vaccination with an adenoviral vector expressing calreticulin-human papillomavirus 16 E7 fusion protein eradicates E7 expressing established tumors in mice]. Research Louisville 2007. Louisville, KY, USA.
6. **Gomez-Gutierrez JG**, Elpek KG, Montes de Oca-Luna R, Shirwan H, Sam Zhou H, McMasters KM. 2007. [Vaccination with an adenoviral vector expressing calreticulin-human papillomavirus 16 E7 fusion protein eradicates E7 expressing established tumors in mice]. Fifth James Graham Brown Cancer Center Annual Retreat. Louisville, KY, USA.
7. **Gomez-Gutierrez JG**, Garcia-Garcia A, Hao H, Rao X-M, Zhou HS, McMasters KM. 2009. [Truncated E2F-1 Delivered by Inducible Adenoviral Vector Induces Strong Apoptosis in Cancer Cells and Significantly Suppresses Tumor Growth]. Research Louisville 2009. Louisville, KY, USA.
8. Rao X-M, **Gomez-Gutierrez JG**, Garcia-Garcia A, Hao H, McMasters KM, Zhou HS. 2009. [Developing Adenoviral Vectors for Encoding Therapeutic Genes Toxic to Host Cells: Comparing Binary and Single Inducible Vectors Expressing Truncated E2F-1]. Research Louisville 2009. Louisville, KY, USA.
9. Garcia-Garcia A, **Gomez-Gutierrez JG**, Rodriguez-Rocha H, Zhou HS, McMasters KM. 2009. [A Truncated E2F-1 Induces Autophagy in Cancer Cells]. Research Louisville 2009. Louisville, KY, USA.
10. **Gomez-Gutierrez JG**, Garcia-Garcia A, Rodriguez-Rocha H, Tseng MT, Zhou SH, McMasters KM. [Adenovirus-mediated Expression of Truncated E2F-1 Suppresses Tumor Growth and Induces Autophagy and Caspase-Independent Cell Death]. Research Louisville 2010. Louisville, KY, USA.

11. Rao X-M, **Gomez-Gutierrez JG**, Rodriguez-Rocha H, Hao H, McMasters KM, Zhou HS. [Enhancement of E2Ftr-mediated Tumor Suppression by Oncolytic Adenovirus]. Research Louisville 2010. Louisville, KY, USA.
12. **Gomez-Gutierrez JG**, Egger M, Hao H, Zhou H, McMasters K. [Adenovirus-mediated FKHRL1/TM gene transfer suppresses tumor growth in melanoma xenograft model]. Research Louisville 2011. Louisville, KY, USA.
13. **Gomez-Gutierrez JG**, Egger M, Hao H, Zhou H, McMasters K. [Adenovirus-mediated FKHRL1/TM gene transfer suppresses tumor growth in melanoma xenograft model]. 10<sup>th</sup> James Graham Brown Cancer Center Annual Retreat. 2011. Louisville, KY, USA.
14. **Gomez-Gutierrez JG**, Egger M, Zhou HS, McMasters K. [Enhancement of Oncolytic Adenovirus Therapeutic Efficacy by Combination with Temozolomide]. 11<sup>th</sup> James Graham Brown Cancer Center Annual Retreat. 2011. Louisville, KY, USA.
15. Egger M, Hao H, Zhou H, McMasters K, **Gomez-Gutierrez JG**. [Viral-mediated Gene Therapy in Combination with Temozolomide in Melanoma]. Research Louisville 2012. Louisville, KY, USA.
16. Wechman S, Rao X-M, Cheng P-H, Hao H, **Gomez-Gutierrez JG**, McMasters K, Zhou H. [Insights From Novel UV Mutant Oncolytic E1B-deleted Adenoviruses for Cancer Gene Therapy]. Research Louisville 2012. Louisville, KY, USA.
17. Egger M, Hao H, Zhou H, McMasters K, **Gomez-Gutierrez JG**. [Viral-mediated Gene Therapy in Combination with Temozolomide in Melanoma]. 11<sup>th</sup> James Graham Brown Cancer Center Annual Retreat. 2012. Louisville, KY, USA.
18. **Gomez-Gutierrez J**, McMasters K. [Enhancement of Ad-CRT/E7-mediated antitumor effect by preimmunization with L. lactis expressing HPV-16 E7]. Research Louisville 2013. Louisville, KY, USA.
19. Nitz J, McMasters K, Zhou S, **Gomez-Gutierrez J**. [Enhancement of Oncolytic Adenovirus Therapeutic Efficacy by Combination with Temozolomide]. Research Louisville 2013. Louisville, KY, USA.
20. **Gomez-Gutierrez J**, McMasters K. [Enhancement of Ad-CRT/E7-mediated antitumor effect by preimmunization with L. lactis expressing HPV-16 E7]. 12<sup>th</sup> James Graham Brown Cancer Center Annual Retreat. 2013. Louisville, KY, USA.
21. Nitz J, McMasters K, Zhou S, **Gomez-Gutierrez J**. [Enhancement of Oncolytic Adenovirus Therapeutic Efficacy by Combination with Temozolomide]. 12<sup>th</sup> James Graham Brown Cancer Center Annual Retreat. 2013. Louisville, KY, USA.
22. Riedinger E, Nitz J, McMasters KM, **Gomez-Gutierrez JG**. [Developing an Immunocompetent Mouse Lung Cancer Model for the Evaluation of Virotherapy Effectiveness]. Research Louisville 2014. Louisville, KY, USA.
23. Riedinger E, Nitz J, McMasters KM, **Gomez-Gutierrez JG**. [Developing an Immunocompetent Mouse Lung Cancer Model for the Evaluation of Virotherapy Effectiveness]. 13<sup>th</sup> James Graham Brown Cancer Center Annual Retreat. 2014. Louisville, KY, USA.
24. Das Purkayastha, **Gomez-Gutierrez JG**, Bodduluri H, Sharma R. [Molecular mechanism of chemoresistance in aggressive lung cancer]. Research Louisville 2015. Louisville, KY, USA.
25. Nitz J, Wechman S, Riedinger E, Sharma R, Zhou H, McMasters K, **Gomez-Gutierrez JG**. [Combined Therapy of Oncolytic Adenovirus and Temozolomide Enhances Lung Cancer Virotherapy In Vitro and In Vivo]. Research Louisville 2015. Louisville, KY, USA.
26. Perez-Hernandez R, Zhou HS, Sharma R, McMasters KM, **Gomez-Gutierrez JG**. [Temozolomide Enhances Breast Cancer Virotherapy Regardless of Estrogen Receptor Status]. Research Louisville 2015. Louisville, KY, USA.
27. **Gomez-Gutierrez JG**, Nitz J, Wechman S, Riedinger E, Zhou S, McMasters K. [Combined Therapy of Oncolytic Adenovirus and Temozolomide Enhances Lung Cancer Virotherapy *In Vitro* and *In Vivo*]. Research Louisville 2016. Louisville, KY, USA.



28. **Gomez-Gutierrez JG**, Nitz J, Wechman S, Riedinger E, Zhou S, McMasters K. [Combined Therapy of Oncolytic Adenovirus and Temozolomide Enhances Lung Cancer Virotherapy In Vitro and In Vivo]. Lung Cancer Symposium 2016, University of Kentucky, Markey Cancer Center. Lexington, KY, USA.
29. Gonzalez-Ramos R, McMasters K, **Gomez-Gutierrez JG**. [Enhancement of Triple Negative Breast Cancer Virotherapy via Alkylating Agent-Induced Autophagy]. Research Louisville 2017. Louisville, KY, USA.
30. Garza-Morales R, Martinez-Jaramillo E, Loera-Arias MJ, Saucedo-Cardenas O, Montes de Oca-Luna R, McNally L, **Gomez-Gutierrez JG**. [Development of *Lactococcus lactis* encoding fluorescent proteins, GFP, mCherry and iRFP regulated by the nisin-controlled gene expression system]. Research Louisville 2017. Louisville, KY, USA.

## PUBLICATIONS

### PEER-REVIEWED

1. **Gomez-Gutierrez JG**, Souza V, Hao HY, Montes de Oca-Luna R, Dong YB, Zhou SH, McMasters KM. Adenovirus-mediated gene transfer of FKHRL1 triple mutant efficiently induces apoptosis in melanoma Cells. *Cancer Biol Ther* 5 (7); 867-874. 2006. (**cited 58 times**)
2. **Gomez-Gutierrez JG**, Elpek KG, Montes de Oca-Luna R, Shirwan H, Zhou SH, McMasters KM. Vaccination with an adenoviral vector expressing calreticulin-human papillomavirus 16 E7 fusion protein eradicates E7 expressing established tumors in mice. *Cancer Immunol Immunother* 56: 997-1007. 2007. (**cited 73 times**)
3. Hao HY, Dong YB, Bowling MT, **Gomez-Gutierrez JG**, Zhou HS, McMasters KM. E2F-1 induces melanoma cell apoptosis via PUMA up-regulation and Bax translocation. *BMC Cancer* 7: 24. 2007. (**cited 34 times**)
4. Dong YB, Phelps AM, Yang HL, Jamshidi-Parsian A, Chen C, Hao HY, **Gomez-Gutierrez JG**, Zhou HS, McMasters KM. Induction of apoptosis signal-regulating kinase 1 by E2F-1 may not be essential for E2F-1-mediated apoptosis in melanoma cells. *Tumor Biol* 28: 111-122. 2007. (**cited 10 times**)
5. Zheng X, Rao X-M, **Gomez-Gutierrez JG**, Hao HY, McMasters K. M., and Zhou H. S. Adenovirus E1B55K region is required for inducing cyclin E expression for efficient viral DNA replication in G0-arrested cells. *J Virol* 82; 7: 3415-27. 2008. (**cited 43 times**)
6. Villatoro-Hernandez J, Loera-Arias MJ, Gamez-Escobedo A, Franco-Molina M, **Gomez-Gutierrez JG**, Rodriguez-Rocha H, Gutierrez-Puente Y, Saucedo-Cardenas O, Valdes-Flores J, Montes-de-Oca-Luna R. Secretion of biologically active Interferon-gamma inducible protein-10 (IP-10) by *Lactococcus lactis*. *Microb Cell Fact*. 28; 7(1):22. 2008. (**cited 28 times**)
7. **Gomez-Gutierrez JG**, Rao XM, Garcia-Garcia A, Hao H, McMasters KM, Zhou HS. Developing adenoviral vectors encoding therapeutic genes toxic to host cells: comparing binary and single-inducible vectors expressing truncated E2F-1. *Virology*. 20; 397(2):337-45. 2010. (**cited 8 times**)
8. **Gomez-Gutierrez JG**, Garcia-Garcia A, Hao H, Rao XM, Montes de Oca-Luna R, Zhou HS, McMasters KM. Adenovirus-mediated expression of truncated E2F-1 suppresses tumor growth in vitro and in vivo. *Cancer*. 116(18):4420-32. 2010. (**cited 15 times**)
9. Rodriguez-Rocha H, **Gomez-Gutierrez JG**, Garcia-Garcia A, Rao X-M, Chen L, McMasters KM, Zhou HS. Adenoviruses Induce Autophagy to Promote Virus Replication and Oncolysis. *Virology*. 416(1-2):9-15.2011 (**cited 77 times, first and second authors contributed equally in this study**)
10. Hao H, Chen C, Rao XM, **Gomez-Gutierrez JG**, Zhou HS, McMasters KM. E2F-1- and E2Ftr-mediated apoptosis: the role of DREAM and HRK. *J Cell Mol Med*. 16(3):605-15.2012. (**cited 9 times**)
11. Garcia-Garcia A, Rodriguez-Rocha H, Tseng MT, Montes de Oca-Luna R, Zhou HS, McMasters KM, **Gomez-Gutierrez JG**. E2F-1 lacking the transcriptional activity domain induces autophagy. *Cancer Biol Ther*. 1; 13 (11). 2012. (**cited 15 times**)

12. **Gomez-Gutierrez JG**, Egger ME, Hao H, Zhou HS, McMasters KM. Adenovirus-mediated expression of mutated forkhead human transcription like-1 suppresses tumor growth in a mouse melanoma xenograft model. *Cancer Biol Ther.* 1; 13 (12). 2012. **(First and corresponding author)**
13. **Gomez-Gutierrez JG**, Rao X-M, Zhou HS, McMasters KM. Enhanced cancer cell killing by truncated E2F-1 used in combination with oncolytic adenovirus. *Virology.* 433 (2): 538-547. 2012
14. Egger ME, McNally LR, Nitz J., McMasters KM, **Gomez-Gutierrez JG**. Adenovirus-mediated FKHRL1/TM sensitizes melanoma cells to apoptosis induced by temozolomide. *Hum Gene Ther Clin Dev.* 25 (3): 186-95. 2014. **(Corresponding author)**.
15. Rangel-Colmenero BR, **Gomez-Gutierrez JG**, Villatoro-Hernández J, Zavala-Flores LM, Quistián-Martínez D, Rojas-Martínez A, Arce-Mendoza AY, Guzmán-López S, Montes-de-Oca-Luna R, Saucedo-Cárdenas O. Enhancement of Ad-CRT/E7-mediated antitumor effect by preimmunization with *L. lactis* expressing HPV-16 E7. *Viral Immunol.* 27(9):463-7. 2014. **(This was featured article on the journal cover of Viral Immunology November 2014. First and second authors contributed equally in this study)**
16. Yin W, Kimbrough CW, **Gomez-Gutierrez JG**, Burns CT, Chuong P, Grizzle WE, McNally LR. Tumor specific liposomes improve detection of pancreatic adenocarcinoma in vivo using optoacoustic tomography. *J Nanobiotechnology.* 2015;13:90.
17. **Gomez-Gutierrez JG**, Nitz J, Sharma R, Wechman SL, Riedinger E, Martinez-Jaramillo E, Sam Zhou H, McMasters KM. Combined therapy of oncolytic adenovirus and temozolomide enhances lung cancer virotherapy in vitro and in vivo. *Virology.* 2016;487:249-59. **(First and corresponding author, cited 9 times)**.
18. Sharma RK, Chheda ZS, Das Purkayastha BP, **Gomez-Gutierrez JG**, Jala VR, Haribabu B. A spontaneous metastasis model reveals the significance of claudin-9 overexpression in lung cancer metastasis. *Clin Exp Metastasis.* 2016;33(3):263-75.
19. Wechman SL, Rao XM, Cheng PH, **Gomez-Gutierrez JG**, McMasters KM, Zhou HS. Development of an Oncolytic Adenovirus with Enhanced Spread Ability through Repeated UV Irradiation and Cancer Selection. *Viruses.* 2016. 14;8(6). pii: E167.
20. Martinez-Jaramillo E, Garza-Morales R, Loera-Arias MJ, Saucedo-Cardenas O, Montes-de-Oca-Luna R, McNally LR, **Gomez-Gutierrez JG**. Development of *Lactococcus lactis* encoding fluorescent proteins, GFP, mCherry and iRFP regulated by the nisin-controlled gene expression system. *Biotech Histochem.* 2017;92(3):167-174.
21. Garza-Morales R, Yaddanapudi K, Perez-Hernandez R, Riedinger E, McMasters KM, Shirwan H, Yolcu E, **Gomez-Gutierrez JG**. Temozolomide renders murine cancer cells susceptible to oncolytic adenovirus replication and oncolysis. *Cancer Biol Ther.* 2018. 4;19(3):188-197.
22. Martinez-Jaramillo E, Garza-Morales R, Wechman SL, Montes de Oca-Luna R, Saucedo-Cardenas O, Shirwan H, Yolcu E, McMasters KM, **Gomez-Gutierrez JG**. Adenovirus Lacking E1b Efficiently Induces Cytopathic Effect in HPV-16-Positive Murine Cancer Cells via Virus Replication and Apoptosis. *Cancer Invest.* 2018. 2;36(1):19-27.
23. Garza-Morales R, Gonzalez-Ramos R, Chiba A, Montes de Oca-Luna R, McNally LR, McMasters KM, **Gomez-Gutierrez JG**. Temozolomide Enhances Triple-Negative Breast Cancer Virotherapy In Vitro. *Cancers (Basel).* 2018. 17;10(5). pii: E144.
24. Wechman SL, Rao XM, **Gomez-Gutierrez JG**, Zhou HS, McMasters KM. The role of JNK phosphorylation as a molecular target to enhance adenovirus replication, oncolysis and cancer therapeutic efficacy. *Cancer Biol Ther.* 2018. 1:1-11. doi: 10.1080/15384047.2018.1491503.

**NON-PEER-REVIEWED**

1. **Gómez Gutiérrez JG**, Bermúdez Humarán LG, Ruiz Trejo D, Taméz Guerra R, Montes de Oca Luna R. Production and Isolation of the Taq DNA polymerase from recombinant E. coli. Ciencia, UANL (Spanish). 2002; 3:316-321.

**Book Chapter**

2. Borovjagin AV, **Gomez-Gutierrez JG**, Shirwan H, Matthews QL. Adenovirus-based vectors for the development of prophylactic and therapeutic vaccines. In: Lukashevich I, Shirwan H, eds. Novel technologies for vaccine development. Berlin: Springer Verlag, 2014:pp. 203-271.
3. Maronez-Jaramillo E, **Gómez Gutiérrez JG**, Loera MJ, Saucedo Cárdenas O, Montes de Oca Luna R. Development of murine cellular system for the analysis of oncolytic adenovirus antitumor activity. Ciencia UANL (Spanish). 2017; 83: 56-61.