

ACCDiS Cancer Spring Symposium

2016 (ACSS)

**Rosa Agustina Conference Resort, Olmué,
Chile**

7-9 September




Preface to the ACCDiS Spring Cancer Symposium 2016

Chronic diseases (CDs) now account for 84% of all deaths in Chile, the most prevalent being cardiovascular diseases (CVDs, 27%) and cancer (26%) (WHO – Non-communicable Diseases Country Profiles, 2014).

The Advanced Center for Chronic Diseases (ACCDiS) is the first Chilean Center of Excellence dedicated to the study of CVDs & cancer. ACCDiS is a bi-institutional center involving researchers from the University of Chile (UCH) & P. Catholic University of Chile (PUC), the two main research Universities in Chile. The center is financed by the Funds for Research Centers in Priority Areas (FONDAP) program of CONICYT. ACCDiS was officially launched in April 2015 and includes 6 main Research Lines and Principal Investigators: a) Metabolism and cardiovascular signaling (S. Lavandero, UCH), b) Biomarkers in heart failure and remodeling (P. Castro, PUC), c) Mechanisms of tumor cell migration and metastasis (A. Quest, UCH), d) Development of biomarkers for early detection of tumors (A. Corvalán, PUC), e) Natural history of gallbladder cancer (C. Ferreccio, PUC), f) Nanomedicine and nanotheranosis (M. Kogan, UCH). In addition, ACCDiS is setting up a cohort study that will include 10.000 individuals from the Maule region (Maule Cohort or MAUCO) and is designed to observe and dissect the natural history of CVDs and cancer in Chile.

In this first international ACCDiS Cancer Spring Symposium we aim to discuss a broad range of cancer related topics including studies dedicated to understanding the molecular mechanisms involved, aspects of translational research, molecular and environmental epidemiology, systems biology and nanotechnology. In doing so, all six ACCDiS principle investigators and national researchers from different regions of Chile together with their students as well as international scientists (total of over 100 participants) will exchange ideas that we expect to foster not



only a better understanding of the disease but also point towards potential treatments and in doing so open up a wide variety of possibilities for future collaborations.

With this in mind, we welcome you to this first AC-CDiS Spring Cancer Symposium in the scenic Rosa Agustina Resort Center, Olmue, Chile, which we hope will be the first in a long series of follow-up meetings to come. On this note we thank you for participating and hope you enjoy your stay.

The Organizers

Andrew Quest, PhD and Alejandro Corvalán, M.D.

PROGRAM

"ACCDiS Cancer Spring Symposium (ACSS) 2016



Meeting dates
Place

07 - 09 Septiembre 2016
Rosa Agustina Conference Resort
Olmué, Valparaíso, Chile

Day 1 (Wednesday 07/09)

12:00 - 12:30

Departure to Olmué

14:00 - 15:30

Registration, Install Posters and Check-in

15:30 - 17:00

POSTER SESSION I / Coffee

Reviewers: LL, VT, DB, AC, RP, FS

17:00 - 17:20

Opening words

What is ACCDiS? Andrew Quest (U Chile)

Biochemical Journal: Marcelo Kazanietz
(U Pennsylvania - USA)

17:20 - 18:15

Opening Lecture

**Molecular Complexity: Lessons from
Gastric Cancer.** Wael El Rifai (Vanderbilt
University-USA)

18:15 - 19:00

New avenues at ACCDiS

**Cancer therapy-induced cardiotoxicity.
Rationale for setting up a Cardio -On-
cology Unit.** Gonzalo Martínez (PUC)

Chair: Alejandro Corvalán

20:30

Welcome Dinner

Day 2 (Thursday 08/09)

07:45 - 08:45 **Breakfast**

09:00 - 11:00

Session 1 / Cell Signalling 1

Chairs: Andrew Quest / Fabiola Sanchez

Lecture

1.- Caveolin-1, a double - edged sword in cancer **Andrew Quest (U Chile)**

2.- Conditioned media from tumoral cell lines increases microvascular permeability via nitric oxide and S-nitrosylation of adherens junction proteins.

Fabiola Sánchez (U Austral of Chile)

3.- Role of Nerve Growth Factor (NGF) in epithelial ovarian cancer angiogenesis

Carmen Romero (U Chile)

4.- Targeting the Wnt/ β -catenin/BCL9 transcriptional complex for cancer therapy

Rubén Carrasco (Dana-Faber Cancer Institute-USA)

11:00 - 11:30 **Coffee**

11:30 - 13:30

Session 2 / Cell Signalling 2

Chairs: Ariel Castro / Roxana Pincheira

Lecture

1.- Rac-GEFs and cancer signaling

Marcelo Kazanietz (U Pennsylvania - USA)

2.- Defining molecular mechanisms of cancer cell resistance to metabolic stress: Rheb and AMPK/p27 signaling in autophagy-dependent cell survival

Marcelo Kazanietz (U Pennsylvania - USA)

3.- Mechanistic insights on the function of the Sall2 tumor suppressor

Roxana Pincheira (U Concepción)

4.- Insights on Microorganisms and Cancer

Miguel O’Ryan (U Chile)

13:30 - 14:30 **Lunch**

15:00 – 17:00

Session 3 / Translational Research

Chairs: Gareth Owen / Alejandro Corvalán

Lecture

1.- Basic and clinical approaches to personalized cancer medicine

Gareth Owen (PUC)

2.- Near real-time tumor monitoring of a metastatic pancreatic cancer patient through serial liquid biopsies

Hector Álvarez (U of Texas - USA)

3.- microRNAs as biomarkers: from literature buzz to clinical applications

Foteini Christodoulou (Miroculus - San Francisco, CA, USA)

4.- Mitochondrial Noncoding RNAs: New extra-nuclear targets for melanoma therapy

Verónica Burzio (Fund. Ciencia & Vida)

17:00 - 18:30

POSTER SESSION II / Coffee

Reviewers: LL, VT, DB, AC, RP, FS

18:30 – 19:30

Marcelo Kazanietz

Plenary Lecture: PKCs and other diacylglycerol binding proteins- Connecting basic science to translational research

Chair: Andrew Quest

19:30 - 20:30

Social Event

Local folklore Group (18 Sept) whit Aperó (Pisco Sour, Wine, etc)

20:30 - 21:10

Take down posters

21:00 - 22:30

Dinner

Day 3 (Friday 09/09)

07:45 - 08:45

Breakfast

Check-out

09:00 - 11:00

Session 4 / Molecular & Environmental Epidemiology

Chairs: Catterina Ferreccio / Juan Carlos Roa

Lecture

1.- Diet, Nutrients, Food Contaminants & risk of GBC Cancer **Catterina Ferreccio (PUC)**

2.- Biomarkers in Gallbladder Cancer
Juan Carlos Roa (PUC)

3.- Arsenic and Cancer: Findings on Cancer Susceptibility from Northern Chile and Elsewhere
Craig Steinmaus (U of California - USA)

4.- Inflammation and Gallbladder Cancer: What are the next steps?
Jill Koshiol (NCI - NIH - USA)

11:00 - 11:30

Coffee / Check-out

11:30 - 13:30

Session 5 / Systems Biology

Chairs: Alejandro Corvalán / Gareth Owen

Lecture

1.- Systems Biology and Cancer Research.
Alejandro Corvalán (PUC)

2.- Big Omics Data Analysis in Cancer Research. **Elmer Fernández (U Católica of Cordoba - ARG)**

3.- Functional Genomics for Targeted Therapy.
Wael El Rifai (U Vanderbilt)

4.- Translational Medicine in Genomics and Gene Therapy. **Oswaldo L. Podhajcer (Inst Leloir - ARG)**

13:30 - 14:30

Lunch

15:00 – 17:00

Session 6 / Nanotechnology

Chairs: Marcelo Kogan / Felipe Oyarzún

Lecture

1.- Cancer theranostics by using nanoplatfforms. **Marcelo Kogan (U Chile)**

2.- Nano and microvehiculization of lipophilic drugs for the treatment of cancer.

Felipe Oyarzun (U Chile)

3.- Microfluidic devices and Point-of-care systems for cancer diagnosis and prognosis. **Josep Samitier (Inst. Bioengineering of Catalonia - SP)**

4.- Exosome stratification
Silke Krol (Inst. Besta - ITA)

17:00 - 17:45

Cocktail

17:45 - 18:30

Concluding remarks: Andrew Quest.
Best poster & Best image award

18:30

Departure to Santiago

***Reviewers Poster Session:** Vicente Torres (VT), Denisse Bravo (DB), Ariel Castro (AC), Roxana Pincheira (RP), Fabiola Sánchez (FS), Lisette Leyton (LL).



POSTERS

1) Arsenic exposure and type 2 diabetes mellitus in an adult population in northern Chile

Acevedo, J¹; González, F²; Steinmaus, C³; Ferrecio, C¹

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2) CDH1 in Hereditary Diffuse Gastric Cancer

Alarcón A¹, Norero E², Jara L³, Corvalán A¹

¹Oncology, Medicine, Pontificia Universidad Católica De Chile

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3) Coagulation Factor Xa promotes melanoma cell metastasis

Arce M¹, Erices R¹, Lobos-Gonzalez L², Ramirez C¹, Quest A³, Owen G¹

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4) Identification of differential molecular features distinguishing asian from non-asian gastric tumors

Artigas R, Wichmann I, Corvalan A

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Oncology Laboratory, Medicina, Pontificia Universidad Católica De Chile

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5) Deregulated Hippo pathway is a potential therapeutic target for advanced gallbladder cancer

Bizama C^{1,2}, García P^{1,2}, Espinoza J^{1,2}, Elgueta N¹, Weber H³, Rosa L¹, Leal P³, Riquelme I³, Romero D¹, Roa J C^{1,2}

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6) Apoptosis inhibition in gingival epithelial cells mediated by *Porphyromonas gingivalis* infection depends on lipopolysaccharide region and associates with an increase in TLR4 and pro-inflammatory cytokines expression

Bravo D¹, Soto C¹, Bugueño I¹, Hoare A¹, Venegas D¹, Salinas D¹, Samantha M², Rolando V², Quest A³, José P⁴

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7) *H. pylori* gamma-glutamyltranspeptidase inhibits autophagy in gastric cancer cells

Bravo J¹, Corvalán A², Quest A¹

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8) Caveolin-1 and protein kinase A regulate ER-mitochondria crosstalk during early ER stress in tumor cells

Bravo-Sagua R^{1,2}, Rodríguez A¹, Quiroga C³, Paredes F¹, Parra V¹, Ortiz-Sandoval C⁴, Simmen T⁴, Quest A¹, Lavandero S^{1,5}

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⁴Department of Cell Biology, Faculty of Medicine and Dentistry, University of Alberta

⁵Department of Internal Medicine University of Texas Southwestern Medical Center

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9) Breast cancer cell migration involves activation of the P2X7 receptor

Brenet Rivas M, Quest A, Leyton L Cellular Communication Laboratory, Advanced Center for Chronic Diseases -ACCDiS. Center for Molecular Studies of the Cell -CEMC, Instituto de Ciencias Biomédicas-Facultad de Medicina. Universidad de Chile.

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10) Development of new cellular models of resistance to paclitaxel and carboplatin in cell lines of ovarian cancer

Viscarra T¹, **Buchegger K**², Ili C², Riquelme I², Roa J C³, Brebi P³

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²Departamento Patología Universidad de La Frontera

³Departamento de Patología Pontificia Universidad Católica De Chile

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11) Caveolin-1 in extracellular vesicles from metastatic breast cancer cells promotes metastasis in a novel model of intraperitoneal carcinomatosis

Campos A^{1,4}, Bustos R², Díaz N¹, Carrasco M², Guevara F², Varas-Godoy M³, Lobos-González L^{2,4}, Quest A F G^{1,4}

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12) Experimental validation of the type of interaction between a miRNA-target gene in an *in vitro* model of gastric cancer

Carrasco N^{1,4}, Sandoval A^{2,4}, Polakovicova I^{3,4}, Corvalan A⁴

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13) Clinical Coordinator Role in a Translational Research Laboratory

Castro-Villena C¹, Maturana MJ², Arancibia C², Corvalan A¹

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14) Inverse correlation between survivin and represso expression in gastric cancer

Cerda P^{1,2,3,4}, Valenzuela M^{3,4}, Wichmman I^{2,4}, Rodríguez A^{2,4}, Corvalan A^{2,4}, Quest A^{3,4}

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15) ABCD method as a triage system in Chilean patients with gastrointestinal endoscopy indication

Cook P¹, Calvo A², Villarroel L³, Aguayo G⁴, Diaz A², Walsen G², Nervi B⁵

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⁵Hematología-Oncología Pontificia Universidad Católica De Chile.

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16) Chronic carriage of Salmonella typhi as a preventable risk factor for Gallbladder Cancer in Chile

Cook P¹, Aniel W², Juan Francisco M³, Aguayo G⁴, Díaz A⁵, Delgado C⁶, Losada H⁷, Koshiol J⁸, Levine M⁹, Ferreccio C¹⁰

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17) IL-8 and MCF7 cell conditioned media induce increased microvascular permeability via nitric oxide and S-nitrosation of VE-cadherin and p120 catenin

Córdova F¹, Zamorano P¹, Guequén A¹, Ehrenfeld P², Rebolledo L¹, Sarmiento J³, Sánchez F¹

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18) Exposure to pesticides as potential *risk factors to cancer in agricultural workers: international evidence*

Cortés S^{1,2}, Toro R³, Molina L¹, Ferreccio C^{1,2}

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19) Caveolin-1 promotes migration, invasion and in vivo metastasis via a novel p85α/Rab5/Tiam1/Rac1 signaling axis

Díaz J^{1,2}, Díaz N¹, Mendoza P², Ortiz R¹, Contreras P¹, Torres V², Leyton L¹, Quest A¹

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20) E-cadherin-dependent recruitment of the non-receptor tyrosine phosphatase PTPN14 prevents cell migration, invasion and metastasis induced by caveolin-1 phosphorylation on tyrosine 14

Díaz-Valdivia N¹, Campos A^{1,2}, Contreras P³, Lobos-Gonzalez L^{2,1}, Perez V⁴, Frei B⁴, Leyton L¹, Quest A¹

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³ Linus Pauling Institute, Department of Biochemistry and Biophysics Oregon State University.

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21) The role of PERK in *Helicobacter pylori* induced gastric cell death and disease progression

Díaz P¹, Corvalán A², Lavandero S^{3,1}, Quest A¹

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22) B16F10 murine melanoma cells labeled with CdTe Quantum Dots as a novel tool to study early steps in metastasis

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23) Adenosine axis regulates the Epithelial-Mesenchymal Transition and cell migration/invasion of Glioblastoma Stem-like Cells through the activation of Low-Affinity Adenosine Receptors under hypoxia

Erices J, Torres A, Toro M, Muñoz M, San Martín R, Quezada C

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24) Understanding the role of NUA1 on metabolic regulation and cell survival

Escalona E, Pincheira R, Castro A

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25) Reduced pro-angiogenic capacity in male mice lacking adenosine A_{2A} receptor

Troncoso F¹, Herlitz K¹, Acurio J¹, Covarrubias A², Aguayo C³, Godoy A⁴, San Martín S⁵, **Escudero C⁶**

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26) Angiogenin controls protein translation in a Sall2- dependent manner

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27) Shell-isolated nanoparticle-enhanced fluorescence (SHINEF) as a detection and quantification method of aflatoxin M1

Foerster C^{1,3}, Guerrero A^{2,3}, Ferreccio C^{1,3}, Kogan M^{2,3}

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28) DISC1 promotes protein synthesis during oxidative stress

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29) Src-family kinase signaling mediating gemcitabine resistance in gallbladder cancer revealed by quantitative phosphoproteomics

García P¹, Zhong J², Bizama C¹, Espinoza J³, Rosa L¹, Roa J¹, Leal P⁴

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30) Comparison of phospho-Connexin 43 and phospho-TRKB levels in normal ovarian epithelia and ovarian cancer tissue samples

Garrido M^{1,4}, Selman A¹, Gabler F², Vega M³, Romero C^{3,4}

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31) Detection of *Helicobacter pylori* by real time PCR for 16s rRNA in ELISA-negative stool samples of healthy children

George S¹, Mamani N², Lucero Y³, Torres J P³, Farfán M³, Lagomarcino A⁴, Orellana A⁴, O´Ryan M⁴

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32) Gold nanoparticles and cell-penetrating peptides. A nano tool to study metastasis in short time scale

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33) Protective effect of polyphenols from plants extracts against *Helicobacter pylori*-induced infection of gastric cancer cell lines

Guzmán L¹, Saavedra C^{1,3}, Marchant M J^{1,3}, Corvalán A^{2,3}

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34) Transcriptional regulation of Sall2 gene by Sp1 and its implication in cancer

Hepp M, Escobar D, Farkas C, Pincheira R

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35) Adenosine A_{2A} receptor regulates expression of vascular endothelial growth factor in feto-placental endothelium from normal and pre-eclamptic pregnancies

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36) Sall2 tumor suppressor as a key regulator of cell cycle progression in Mouse Embryonic Fibroblasts.

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37) Survivin levels in epithelial ovarian cancer

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38) ZNF516 a potential tumor suppressor gene candidate is implied in cervical carcinogenesis

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39) Predicted function and evolution of single-exon genes in mammalian genomes

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40) Overexpression of miR-885-5p and miR-590-5p in Gastric Cancer as a Potential Novel Biomarker for Pre-Neoplastic Gastric Lesions

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41) Role of nitric oxide on the adhesion and extravasation of leukocytes and breast cancer cells mediated by VCAM-1 on endothelial cells

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42) Development and characterization of exosomes including gold nanoparticles for cancer theranostic applications

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43) Phosphoproteomic analysis of gallbladder cancer to identify biomarkers and therapeutic targets

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44) Characterization of squamous skin cancer resistant cells to Photodynamic Therapy

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45) Metformin action upon the endothelium diminishes the platelet-mediated increase in angiogenesis

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46) Activation of the AT2 receptor blocks melanoma cell migration, invasion and metastasis

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47) Inverse correlation between expression and methylation of RPRM, a TP53 dependent G2 arrest mediator candidate, along the gastric precancerous cascade

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48) The Chile Biliary Longitudinal Study (Chile BiLS): A Cohort Study Protocol

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49) Proteolysis of focal adhesions by Calpain2 depends of the small GTPase Rab5

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50) New kid on the block: GPR30 and breast cancer

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51) Endothelial permeability in null VE-cadherin endothelial cells is modulated by S-nitrosylation

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52) A2B and A3 Adenosine Receptors controls the Glioblastoma Stem-like Cells differentiation to Vascular Endothelial Cells increasing the VEGF secretion under hypoxia

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53) Molecular Weight Characterization of RPRM: Site Directed Mutagenesis against Asn7 and Asn18

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54) *Helicobacter Pylori* infection in young asymptomatic children is associated with a decrease in SLC5A8 expression, a tumor supresor gene

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55) Extracellular matrix-specific Caveolin-1 phosphorylation on tyrosine 14 is linked to augmented melanoma metastasis but not tumorigenesis

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56) Molecular characterization of nuclear and cytosolic NUA1, and their effect on cancer cell survival and migration

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57) Search for an *in vivo* mouse model to demonstrate the role of gastric cancer exosomes

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58) FKBP6 gene is involved in viability and colony formation of cervical cancer cells

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59) miR-101-2, miR-125b-2 and miR-451a act as potential tumor suppressors in gastric cancer through regulation of the PI3K/AKT/mTOR pathway

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60) Rab5 is activated by HIF-1 α under hypoxic and non-hypoxic conditions

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61) Role of adenosine in chemoresistance in *Glioblastoma stem-like Cells* under hypoxia conditions

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62) DNp73 and RPRM as potential markers in precursors lesion of gastric cancer

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63) A2AR role in melanoma angiogenesis and growth

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64) Establishment and biological characterization of a Chilean ascites-derived gallbladder cancer cell line

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65) Gold nanoparticle for the selective delivery of siRNA to cancer cells

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66) MicroRNA-335-5p is a potential suppressor of metastasis and invasion in non-Asian gastric cancer

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67) Hypoxia-induced Rab5 activation is required for tumor cell migration, invasion and metastasis

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68) Effect of HMGB2 Inhibition in Human Gallbladder Cancer Cell Lines Behavior

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69) Novel Roles of Rab5 in Tumor Cell Migration and Invasion

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70) Platelets enhance Vasculogenic Mimicry in ovarian and gastrointestinal cancer cells

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71) HIF-1 α activation following *Helicobacter pylori* infection reduces cyclin D1 to promote cell cycle arrest in gastric cells

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72) Performance of HPV16/18 genotyping to triage HPV-positive women in primary cervical cancer screening in Chile

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73) Extracellular vesicles derived from ovarian cancer stem cells increase tumorigenic properties of ovarian cancer cells

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74) NGF prevents CRT translocation induced by cytotoxic stress, a necessary event for anti-cancer immunogenicity

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