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WCRG Research Conference

“Bridging Research and Hope”

November 17, 2012

Windsor, Ontario



Bridging Research and Hope **WCRG Conference Summary**

8:00- 8:50am	Registration and Poster set up	LOBBY & AUGUSTUS II
9:00- 9:10am	Welcome	AUGUSTUS I
9:10- 9:50am	Plenary Session I: Suzanne Conzen, MD University of Chicago Comprehensive Cancer Center and Ben May Department for Cancer Biology and Institute for Mind and Biology. A NOVEL ROLE FOR GLUCOCORTICOID RECEPTOR ACTIVATION IN TRIPLE NEGATIVE BREAST CANCER	AUGUSTUS I
10:00- 12:00am	Platform Presentations: Session I Moderator – Swati Kulkarni, Windsor Regional Cancer Center	AUGUSTUS I
12:00- 1:50pm	Lunch and Poster Session	AUGUSTUS II
2:00– 4:00pm	Platform Presentations: Session II Moderator – Andrew Swan, WCRG and Department of Biological Sciences, University of Windsor.	AUGUSTUS I
4:10– 4:50pm	Plenary Session II: Patricia LoRusso, DO Barbara Ann Karmanos Cancer Center, Wayne State University. PERSONALIZED TREATMENT FOR CANCER: THE ACADEMIA PERSPECTIVE.	AUGUSTUS I
4:50- 5:00pm	Closing and Poster Awards	AUGUSTUS I
5:30pm	Drinks and Dinner (if selected in registration)	MARKET- PLACE

Platform Presentations – Augustus I

9:00-9:10am **Welcome and Opening Remarks**
Caroline Hamm – Clinical Director WCRG

9:10-9:50am **Plenary Session I: Suzanne Conzen, MD**
University of Chicago Comprehensive Cancer Center and Ben May Department for Cancer Biology and Institute for Mind and Biology.
A NOVEL ROLE FOR GLUCOCORTICOID RECEPTOR ACTIVATION IN TRIPLE NEGATIVE BREAST CANCER
Generously sponsored by Novartis

10:00-noon **Platform Presentations: Session I**
Moderator – Swati Kulkarni, Windsor Regional Cancer Center

Abstract

- 1 REINSTALLING CELL CYCLE CHECKPOINTS AS A THERAPEUTIC DIRECTION FOR BREAST CANCER
Espanta Jalili, Rosa-Maria Ferriauolo, Agnes Malysa, Bre-Anne Fifield, Janice Tubman, Azadeh Golipour, Dorothy Myers and Lisa A. Porter*
WCRG and Department of Biological Sciences University of Windsor, Windsor, Ontario.
Generously sponsored by AstraZeneca

- 2 BREAST IMAGING WITH ULTRASOUND TOMOGRAPHY: FIRST RESULTS WITH THE SOFTVUE SCANNER.
Neb Duric*, Peter Littrup, Cuiping Li, Olivier Roy, Steven Schmidt, Lisa Bey-Knight, Roman Janer, Xiayang Chen, Jeff Goll and William Greenway.
Karmanos Cancer Institute, Wayne State University, Detroit, Michigan, Delphinus Medical Technologies, Plymouth, Michigan

- 3 IDENTIFYING THE INTERACTOME AND NOVEL PHOSPHATASE SUBSTRATES FOR THE PUTATIVE ONCOGENE HYVH1/DUSP12 USING AFFINITY CHROMATOGRAPHY GELC-MS/MS
Christopher A. Bonham*, Besa Xhabija, Colleen M. Mailloux, Panayiotis O. Vacratsis (Authors all contributed equally to this research)
WCRG and Department of Chemistry and Biochemistry, University of Windsor, Windsor, Ontario

Platform Presentations – Augustus I

Abstract Platform Presentation: Session I continued

- 4 A 12-MONTH REPEATED MEASURES STUDY EXPLORING THE IMPACT OF PROSTATE CANCER RADIATION TREATMENT ON SYMPTOMS, FUNCTIONS, AND WELLBEING
Maher M. El-Masri^{1*}, Susan Fox-Wasylyshyn¹, Colvin Springer², Sheila Cameron¹
1) WCRG and Faculty of Nursing, University of Windsor, Windsor, Ontario. 2) Windsor Regional Cancer Centre, Windsor, Ontario
- 5 FUNCTIONAL ASSOCIATION OF THE HISTONE DEMETHYLASE LID WITH THE SIN3 HDAC COMPLEX
Ambikai Gajan*, Valerie L. Barnes and Lori A. Pile
Department of Biological Sciences, Wayne State University, Detroit, Michigan
- 6 ROLE OF APOLIPOPROTEIN(A) IN ANGIOGENESIS AND CELL MIGRATION THROUGH PLASMINOGEN ACTIVATION
Rocco Romagnuolo, BSc*; Michael B. Boffa, PhD; Marlys L. Koschinsky, PhD
WCRG and Department of Chemistry & Biochemistry, University of Windsor, Windsor, ON, Canada
- 7 MODULATION OF NEUTRAL SPHINGOMYELINASE ACTIVITY VIA POST-TRANSLATIONAL MODIFICATION AND IMPLICATIONS FOR CANCER CELL SURVIVAL
Bei Lei Sun*, Artur Jarosz, Bulent Mutus
WCRG and Department of Chemistry & Biochemistry, University of Windsor, Windsor, Ontario

12:00-1:50pm Lunch and Poster Session: Augustus II (pages 6-12)

2:00–4:00pm Platform Presentations: Session II
Moderator – Andrew Swan, WCRG and Department of Biological Sciences, University of Windsor.

Abstract

- 8 EXPLORING THE ASSOCIATION BETWEEN AGE AND STAGE IN PATIENTS WITH TRIPLE NEGATIVE BREAST CANCER
Hamm Caroline*, El Masri Maher, Vivek Pamathy, Alam Yasmin, Gupta Rasna, Kulkarni Swati, Mathews John
Windsor Regional Cancer Center and WCRG, Windsor, Ontario

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Platform Presentations – Augustus I

Abstract Platform Presentation: Session II continued

- 9 POWER OVER PAIN – COACHING INTERVENTION FOR AFRICAN AMERICANS WITH CANCER PAIN
April H Vallerand, PhD, RN, FAAN*¹, Stephanie M Schim, PhD, RN¹, Susan M Hasenau, PhD, RN, CTN-A², Sheria G. Robinson, MSN, RN, MHA¹, Thomas Templin, PhD¹
1) Wayne State University, College of Nursing; 2) Madonna University, College of Nursing and Health
- 10 TARGETING MITOCHONDRIAL & OXIDATIVE VULNERABILITIES IN CANCER CELLS WITH SYNTHETIC ANALOGUES OF PANCRATISTATIN IN COMBINATION WITH PIPERLONGUMINE, CURCUMIN, & TAMOXIFEN
Dennis Ma*¹, Manika Gupta¹, Ian Tuffley¹, Seema Joshi¹, Julia Church¹, Sergey Vshyvenko², Tomas Hudlicky², Siyaram Pandey¹
1) Department of Chemistry and Biochemistry, University of Windsor, 401 Sunset Avenue, Windsor, Ontario N9B 3P4, Canada. 2) Chemistry Department and Centre for Biotechnology, Brock University, St. Catharines, ON
- 11 ARE WE MISSING THE TARGET IN POST-PROSTATECTOMY RADIOTHERAPY? RESULTS OF AN INTERNATIONAL CONTOURING CHALLENGE
Vikram Velker MD*, Alexander Louie MD, George Rodrigues MD MSc FRCPC
Department of Oncology, London Regional Cancer Centre, Western University, London, ON
- 12 EPIGENETIC Deregulation OF THE POLO-LIKE KINASES (PLKS) IN HEMATOLOGICAL MALIGNANCIES
Alejandra Ward^{1*}, Gayathri Sivakumar¹, Caroline Hamm², Sindu Kanjeekal², John W. Hudson¹
1) University of Windsor, Department of Biology and WCRG 2) Windsor Regional Cancer Center, Windsor, ON and WCRG
- 13 OVERVIEW OF A PHASE III RANDOMIZED, DOUBLE-BLIND STUDY OF DENOSUMAB COMPARED WITH ZOLEDRONIC ACID IN THE TREATMENT OF BONE DISEASE IN SUBJECTS WITH NEWLY DIAGNOSED MULTIPLE MYELOMA.
Dr Sindu Kanjeekal MD FRCPC Medical Oncologist & Hematologist.
Windsor Regional Cancer Center. Adjunct Professor Schulich School of Medicine and WCRG

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Platform Presentations – Augustus I

Abstract

Platform Presentation: Session II continued

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LOSS OF PDCD4 IN GLIOBLASTOMA MULTIFORME CONTRIBUTES TO ENHANCED CHEMO-RESISTANCE THROUGH DEREPRESSION OF BCL-XL EXPRESSION

Urszula Liwak^{*1,2}, Lindsay E. Jordan^{1,2}, Federico Roncaroli³, Martin Holcik^{1,2,4}

1)Apoptosis Research Centre, Children's Hospital of Eastern Ontario Research Institute, Ottawa, Ontario,. 2) Department of Biochemistry, Microbiology and Immunology, University of Ottawa, Ottawa, Ontario. 3) John Fulcher Neuro-oncology Lab, Imperial College, London, UK 4) Department of Paediatrics, University of Ottawa, Ontario

4:10–

4:50pm

Plenary Session II: Patricia LoRusso, DO

Karmanos Cancer Center, Wayne State University, Detroit, MI

PERSONALIZED TREATMENT FOR CANCER: THE ACADEMIA PERSPECTIVE.

4:50-

5:00pm

Closing & Poster Awards

Lisa Porter, Scientific Director WCRG

Awards given by Dr. Ken Schneider, Chief of Oncology Windsor Regional Hospital

Poster Presentations – Augustus II

ABSTRACT 15

THE CYCLIN-LIKE PROTEIN SPY1/RINGO PROMOTES MAMMARY TRANSFORMATION AND IS ELEVATED IN HUMAN BREAST CANCER

Mohammad Al Sorkhy^{1#}, Rosa-Maria Ferraiuolo^{*2#}, Espanta Jalili², Agnes Malysa², Andreea R. Fratiloiu³, Bonnie F. Sloane⁴, and Lisa A. Porter²

#Contributed Equally

Presenter affiliation: WCRG and University of Windsor.

ABSTRACT 16

A DEMOGRAPHIC STUDY ON PROSTATE CANCER PRESENTING TO THE WINDSOR REGIONAL CANCER CENTRE FROM 1990 TO 2012

Elizabeth Allen^{*1}, Pamathy Vivek, Mathews, Colvin Springer² and Junaid Yousuf²

Presenter affiliation: Schulich School of Medicine and Dentistry.

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EGFR MUTATIONS IN AFRICAN AMERICAN NSCLC PATIENTS OCCURS AT A SIMILAR FREQUENCY TO CAUCASIANS BUT DEMONSTRATES AN EXTREME BIAS TO EXON 19 MUTATIONS.

Govindaraja Atikukke^{3*}, Sabeena Misra³, David J. Edwards², Michele L. Cote¹, Gadgeel Shirish¹, Ann G. Schwartz¹, Ayman O. Soubani¹, Fulvio Lonardo², Stephen P. Ethier⁴, Ramsi Haddad⁵

Presenter affiliation: ITOS Oncology.

ABSTRACT 18

IDENTIFICATION OF COMPLEX ONCOGENE SIGNATURES IN HUMAN CANCER SPECIMENS AND CELL LINES

Govindaraja Atikukke^{1*}, Sabeena Misra M.D¹, Ramsi Haddad^{1,2} and Stephen P Ethier^{1,3}

Presenter affiliation: ITOS Oncology.

ABSTRACT 19

A PORTABLE OPTICAL CT SCANNER FOR INTERACTIVE TEACHING OF IMAGING PRINCIPLES

J. Battista^{1,3,*}, L. Kaci¹, K. Jordan^{1,3}, S. Gardner^{4*}, and J. Miller²

Presenter affiliation: London Regional Cancer Program and Department of Medical Biophysics, Western University, London, Ontario.

ABSTRACT 20

TAF1a IS A NOVEL INHIBITOR OF BREAST CANCER CELL INVASION AND MIGRATION

Zainab A. Bazzi, BSc.^{*1}, Deborah Rudy, BSc.¹, Dora Cavallo-Medved, PhD², and Michael B. Boffa, PhD¹

Presenter affiliation: WCRG and University of Windsor.

Poster Presentations – Augustus II

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PRIMARY LOCALIZED CUTANEOUS NODULAR AMYLOIDOSIS IN A PATIENT WITH SYSTEMIC SCLEROSIS: A CASE REPORT

Alishya Burrell^{*1}, Caroline Hamm²

Presenter affiliation: Schulich School of Medicine and Dentistry.

ABSTRACT 22

THE EFFECTS OF THE SYNTHETIC TRITERPENOID ACETYLENIC TRICYCLIC BIS-(CYANO ENONE) ON CELL MIGRATION AND EPITHELIAL-TO-MESENCHYMAL TRANSITION

Eddie Chan*, John Di Guglielmo

Presenter affiliation: University of Western Ontario.

ABSTRACT 23

2D GOLD NANOPARTICLE BIOSENSORS FOR LEUKEMIA DETECTION

Claire Coughlin*, Daniel Travo, Chitra Rangan

Presenter affiliation: University of Windsor.

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RAR α 1 AS A NOVEL DRUG TARGET TO IMPROVE CONVENTIONAL HORMONAL ADJUVANT THERAPY OF BREAST CANCER

Venkatesh Vasu Chari*, Marcela d'Alincourt Salazar, Rachael Jetson, Robert J Trumbly, Paul Erhardt and Manohar Ratnam

Presenter affiliation: Barbara Ann Karmanos Comprehensive Cancer Center.

ABSTRACT 25

ANTI-EMETIC DRUGS IN CHEMOTHERAPY TREATMENTS: AN ANTAGONISTIC RELATIONSHIP

Martin Crozier* and Lisa A. Porter

Presenter affiliation: WCRG and University of Windsor.

ABSTRACT 26

SUDDEN ONSET PSYCHOSIS FOLLOWING RITUXIMAB INFUSION

Stephen Cunningham-Dunlop^{1*} and Dr. Caroline Hamm²

Presenter affiliation: University of Western Ontario Medical School.

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3D LIVE-CELL IMAGING PROFILES PROTEASES ASSOCIATED WITH LYMPHATIC INVASION IN INFLAMMATORY BREAST CANCER

Mustapha El-Ayoubi*, Deborah Rudy and Dora Cavallo-Medved

Presenter affiliation: WCRG and University of Windsor.

Poster Presentations – Augustus II

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THE INTERACTION BETWEEN THE TUMOR SUPPRESSOR TUBERIN WITH CYCB1 CONSTITUTES A NOVEL G2/M NUTRIENT CHECKPOINT

Elizabeth Fidalgo da Silva*, Sabrina Botsford, Jessica Dare, Jiamila Maimaiti, Lisa A. Porter

Presenter affiliation: WCRG and University of Windsor.

ABSTRACT 29

THE NOVEL CELL CYCLE REGULATOR SPY1 REGULATES MAMMARY TUMOURIGENESIS

Bre-Anne Fifield*, Lisa A. Porter

Presenter affiliation: WCRG and University of Windsor.

ABSTRACT 30

PHARMACOGENOMICS IN ONCOLOGY FEASIBILITY STUDY

Fung LA^{1*}, Welch SA^{1,2}, Winkquist E^{1,2}, Ernst S^{1,2}, Vandenberg TA^{1,2}, Potvin K^{1,2}, MacKenzie MJ^{1,2}, Vincent MD^{1,2}, Schwarz UI³, LeonPonte M³, and Kim RB^{1,3}

Presenter affiliation: Schulich School of Medicine & Dentistry, Western University.

ABSTRACT 31

ATYPICAL PKC PHOSPHORYLATES PAR6 AND FACILITATES TGFβ-INDUCED EMT

Adrian Gunaratne*, Boun Thai, and John Di Guglielmo

Presenter affiliation: University of Western Ontario.

ABSTRACT 32

A CRITICAL ROLE OF CXCR5 PDZ-MEDIATED INTERACTIONS IN B CELL LYMPHOMA

Xiaoqing Guan^{1*}, Yuning Hou¹, Yanning Wu¹, Shuo Wang¹, Yanxia Liu¹, Abdul Shukkur Ebrahim², Ayad M. Al-Katib², Chunying Li^{1,3,4}

Presenter affiliation: Barbara Ann Karmanos Cancer Institute; Wayne State University School of Medicine.

ABSTRACT 33

METABOTROPIC GLUTAMATE RECEPTOR-1 AS A POTENTIAL MEDIATOR OF ANGIOGENESIS IN BREAST CANCER

Ali Hachem^{2*}, Ali Assi², Cecilia L. Speyer, Ph.D.¹, John A. DeVries, M.S.¹, and David H. Gorski, M.D., Ph.D.¹

Presenter affiliation: University of Michigan.

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DISRUPTING CXCR2 PDZ-MEDIATED INTERACTION IN HEAD AND NECK SQUAMOUS CELL CARCINOMA: A POTENTIAL THERAPEUTIC STRATEGY

Yuning Hou^{1*}, Shuo wang¹, Yanning Wu¹, Marcello P. Castelveter¹, Xiaoqing Guan¹, George Yoo^{2,5}, Andrew M. Fribley³, Chunying Li^{1,4,5}

Presenter affiliation: Barbara Ann Karmanos Cancer Institute; Wayne State University School of Medicine.

ABSTRACT 35

A DESCRIPTIVE STUDY OF FUNCTIONS, SYMPTOMS, AND PERCEIVED HEALTH STATE AFTER RADIOTHERAPY FOR PROSTATE CANCER

Sheila Cameron¹, Colvin Springer², Susan Fox-Wasylyshyn¹, Maher M. El-Masri^{1*}

Presenter affiliation: WCRG and University of Windsor

ABSTRACT 36

DOWNREGULATION OF THE CYCLIN-LIKE PROTEIN SPY1 IS AN ESSENTIAL COMPONENT OF THE DNA DAMAGE RESPONSE.

Espanta Jalili*, Dorota Lubanska, Sylvie Tremblay, and Lisa A. Porter

Presenter affiliation: WCRG and University of Windsor

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(RE) REPOSITIONING OF CHLOROQUINE ANALOGS FOR THE TREATMENT OF TOXOPLASMA GONDII INFECTION

Dema Kadri^{1*}, Sirinart Ananvoranich¹, Hoyun Lee^{2,3}, V. Raja Solomon²

Presenter affiliation: University of Windsor, Windsor, Ontario.

ABSTRACT 38

HIGH INCIDENCE OF SPLEEN TUMOURS IN PLK4 MUTANT MICE

Brayden Labute*, Alejandra Ward, John W. Hudson

Presenter affiliation: WCRG and University of Windsor

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BREAST CANCER AFTER HODGKIN'S LYMPHOMA: IS IT ALWAYS RADIATION'S FAULT?

Jacqueline S. Lam, MBBS¹, and Caroline M. Hamm, MD, FRCP(C)²

Presenter affiliation: London Regional Cancer Program, London, Ontario.

ABSTRACT 40

ANALYZING THE ANTI-CANCER EFFECTS OF NOVEL SYNTHETIC ANALOGS OF ALLO-COLCHICINE

Kristen Larocque*, Pamela Ovadge, Sinisa Djurdjevic, Mariam Mehdi, James R. Green, Siyaram Pandey

Presenter affiliation: WCRG and University of Windsor Ontario.

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LITHIUM CHLORIDE TREATMENT TARGETS THE TUMOUR-INITIATING CELL SUBPOPULATION OF UNDIFFERENTIATED PLEOMORPHIC SARCOMAS

Hao Li^{1,4*}, Qingxia Wei¹, Cassandra Tyson^{1,5}, and Benjamin A. Alman^{1,2,3}

Presenter affiliation: Program in Developmental and Stem Cell Biology and University of Toronto

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A NOVEL CELL CYCLE REGULATOR SPY1 IS INVOLVED IN NEUROGENESIS AND BRAIN CANCER

Lubanska D^{*1}, Market B² and Porter LA¹

Presenter affiliation: WCRG and University of Windsor

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A ROLE FOR SPY1 PROTEIN IN HEMATOPOIESIS; IMPLICATIONS FOR BLOOD CANCERS

Kaitlyn N. Matthews*, Dorota Lubanska and Lisa A. Porter

Presenter affiliation: WCRG and University of Windsor

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WINDSOR REGIONAL CANCER CENTRE CLINICAL TRIALS

Krista Naccarato*, Jane Coulter, Patricia Dupuis, Donna Clinansmith, Kausar Pathan

Presenter affiliation: Windsor Regional Cancer Center

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THE EFFECTIVENESS OF DANDELION ROOT EXTRACT AGAINST AGGRESSIVE AND NON-RESPONSIVE CANCERS

Pamela Ovadje*, Caroline Hamm, Siyaram Pandey

Presenter affiliation: University of Windsor

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BIOLOGICAL AND CLINICAL CORRELATES OF GENE REPRESSION BY ESTROGEN AND ITS ANTAGONISM BY TAMOXIFEN IN BREAST CANCER

Mugdha Patki*

Presenter affiliation: University of Toledo.

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COMPLETE REMISSION AFTER NEOADJUVANT CONCURRENT CHEMORADIATION IN LOCALLY ADVANCED RECTAL CANCER WITH MULTIPLE SYNCHRONOUS UNRESECTABLE LIVER METASTASES: A CASE REPORT AND LITERATURE REVIEW

Ming Pan M.D.*, FRCPC; Tarek Elfiki M.B. Ch.B,

Presenter affiliation: MRCPI Windsor Regional Hospital Cancer Program.

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ABSTRACT 48

THE ROLE OF SPY1 IN THE GENERATION OF INDUCED PLURIPOTENT STEM CELLS

Ingrid Qemo*, Kaitlyn N. Matthews, Elizabeth Fidalgo da Silva, Dorota Lubanska and Lisa A. Porter

Presenter affiliation: WCRG and University of Windsor.

ABSTRACT 49

FINDING INFORMATIVE GENES FOR THE PREDICTION OF BREAST CANCER TYPES

I. Rezaeian*, Y. Li, M. Cozier, A. Ngom, L. Rueda, L. Porter

Presenter affiliation: University of Windsor.

ABSTRACT 50

ANALYSIS OF GTPASE ACTIVATING PROTEIN RAP1GAP IN THE PROGRESSION OF NON-TRANSFORMED BREAST EPIHELIIUM TO DUCTAL CARCINOMA IN SITU

Seema Shah*, Kingsley Osuala, Shihong Mao, Hitchintan Kaur, Quanwen Li , Ethan Brock, Bonnie F. Sloane, Stephen A. Krawetz and Raymond R. Mattingly

Presenter affiliation: Barbara Ann Karmanos Cancer Institute and Wayne State University.

ABSTRACT 51

THE ROLE OF TUBERIN IN THE DEVELOPMENT AND PROGRESSION OF PEDIATRIC BRAIN TUMOURS

Malika Somayajulu*, Gordon Omar Davis, Jiamila Maimaiti, Lisa A. Porter, Elizabeth Fidalgo da Silva

Presenter affiliation: WCRG and University of Windsor.

ABSTRACT 52

A HYBRID BIOSENSOR DESIGN FOR THE SENSITIVE DETECTION OF LEUKEMIA BIOMARKERS

Travo D. A.^{1*}, Rangan C.¹, and Sipe J. E.²

Presenter affiliation: University of Windsor.

ABSTRACT 53

THE ROLE OF SPY1 ON MAMMARY ACINI MORPHOGENESIS

Tubman J*, Malysa A, Porter LA

Presenter affiliation: WCRG and University of Windsor.

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ABSTRACT 54

A NOVEL ENDOSOMAL PI3P BINDING PROTEIN, RECEPTOR MEDIATED ENDOCYTOSIS 8 IS SPATIALLY AND TEMPORALLY REGULATED BY THE LIPID PHOSPHATASE MYOTUBULARIN RELATED-2

Besa Xhabija^{1*}, Gregory S. Taylor², Akemi Fujibayashi³, Kiyotoshi Sekiguchi³, Panayiotis O. Vacratsis¹

Presenter affiliation: WCRG and University of Windsor

ABSTRACT 55

EXAMINATION OF THE PROMOTER METHYLATION STATUS OF THE POLO-LIKE KINASES (PLKS) IN CELLS DERIVED FROM BLOOD NEOPLASMS

Alejandra Ward¹, Gayathri Sivakumar^{1*}, Caroline Hamm², Sindu Kanjeekal², John W. Hudson¹:

Presenter affiliation: WCRG and University of Windsor

ABSTRACT 56

ROLE OF SKP2 IN MAINTAINING GENOME STABILITY

Biju Vasavan*, Nilanjana Das*, Emona Kraja, and Andrew Swan

Presenter affiliation: WCRG and University of Windsor.

ABSTRACT 57

DANDELION USE IN UTI TREATMENT

Sushil Jain

Presenter affiliation: University of Windsor.

ABSTRACT 58

OUTCOME OF OLDER WOMEN WITH HER2 POSITIVE BREAST CANCER

Swati Kulkarni, M.B.B.S.,FRCPC,ABIM, Zonia Ghumman,MD, Caroline

Hamm,MD FRCPC, Maher EIMasri RN,PHD, V Pamathy BSc

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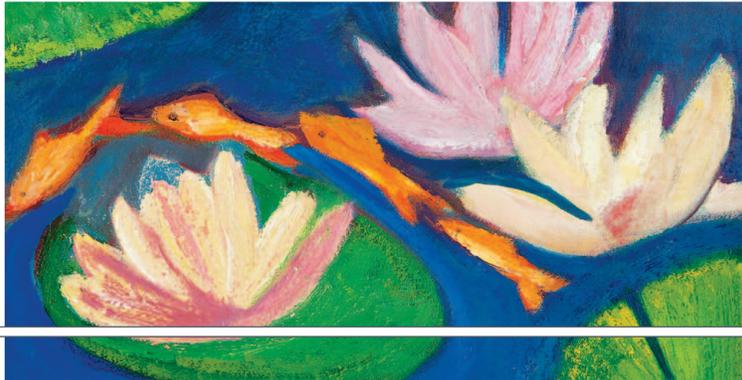
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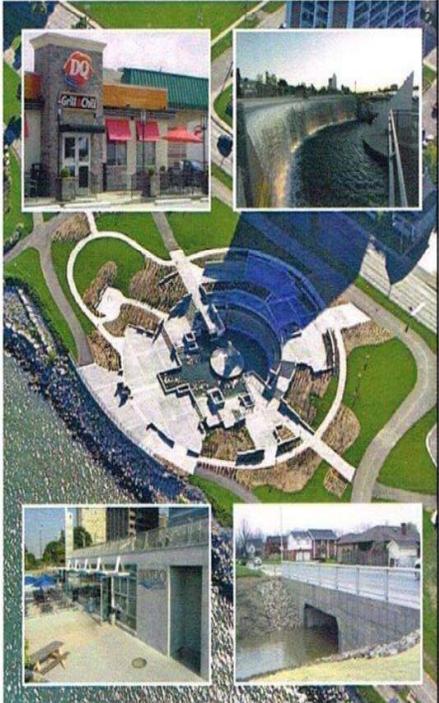


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