

# Noncoding RNAs and Cancer: Mechanisms to Medicines

December 4-7, 2015 • Boston Renaissance Waterfront Hotel • Boston, MA

Poster Session A – Saturday, December 5, 6:00 p.m.-8:00 p.m.

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## Noncoding RNA Functions

- A01** ER stress disrupts circadian rhythms via miR-211. [Yiwen Bu](#), John Alan Diehl.
- A02, PR01** Strand-specific in vivo screen of cancer-associated miRNAs unveils key drivers and oncogenic targets. [Yejing Ge](#), Liang Zhang, Maria Nikolova, Boris Reva, Elaine Fuchs.
- A03** Comprehensive identification of canonical and noncanonical targets of miRNA-122 in mouse and human livers. Joseph M. Luna, Juan Barajas, Kun-yu Teng, Charles M. Rice, Robert B. Darnell, [Kalpana Ghoshal](#).
- A04** LINC00467 regulates the autophagy signaling pathway STK11/AMPK. [Sujuan Guo](#), Kevin Pridham, Zhi Sheng.
- A05** Retrotransposon-derived RNAs in regulating cancer-related alternative splicing. Zhihong Zhou, Cheng Wang, [Qidong Hu](#).
- A06** Characterization of a novel p53-regulated Embryonic Stem cell-specific lncRNA that safeguards pluripotency. [Abhinav K Jain](#), Kadir C Akdemir, Yuanxin Xi, Ryan L McCarthy, Kendra Allton, Bruce Aronow, Chunru Lin, Wei Li, Liuqing Yang, Michelle C Barton.
- A07** Long noncoding RNA PANC RNA1 is a novel regulator of cell growth and motility in pancreatic ductal adenocarcinoma. [Husna Karaboga](#), Philip Jonsson, Yu Liu, Chin-Yo Lin.
- A08** A novel lncRNA RGMB-AS inhibit NSCLC metastasis via upregulating the expression of target gene RGMB. Jin Li, [Shi Xiaoshun](#), He Jianxing.
- A09** The long noncoding RNA SPRIGHTLY regulates cell proliferation in primary human melanocytes. Wei Zhao, Joseph Mazar, Bongyong Lee, Junko Sawada, Jian-Liang Li, John Shelley, Subramaniam Govindarajan, Dwight Towler, John S Mattick, Masanobu Komatsu, Marcel E Dinger, [Ranjan J Perera](#).
- A10** LncRNA MIR222HG transcribed from the miR-221/222 promoter are associated with the development of castration-resistant prostate cancer. [Fangfang Qu](#), Tong Sun, Xiaodong Wang, Gwo-Shu Mary Lee, Philip W Kantoff.
- A11, PR03** A lncRNA regulates DNA repair by homologous recombination. [Vivek Sharma](#), Simran Khurana, Nard Kubben, Kotb Abdelmohsen, Philipp Oberdoerffer, Myriam Gorospe, Tom Misteli.
- A12** miR-346 and miR-138 competitively regulate hTERT in GRSF1- and AGO2-dependent manners, respectively. [Hua Tang](#).
- A13, PR06** The enhancer landscape involves a core noncoding RNA protein interaction network for C-MYC expression. Fan Zhang, Won-min Song, SiDe Li, Vashisht Ajay, Francesca Aguilo, Anindya Bagchi, James A Wohlschlegel, Bin Zhang, [Martin Walsh](#).
- A14** MiR-195 has both tumor suppressive function and oncogenic potential in non-small cell lung cancer. [Xiaojie Yu](#), Zhenze Zhao, Xiuye Ma, Liqin Du, Alexander Pertsemidis.

## Mechanisms of Noncoding RNAs in Tumorigenesis

- A15** MiR-377 targets E2F3 and alters the NF- $\kappa$ B signaling pathway through MAP3K7 in malignant melanoma. Liron Zehavi, Adi Layani, Jasmine Jacob-Hirsch, Yechezkel Sidi, Raya Leibowitz-Amit, [Dror Avni](#).

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**A16, PR04** The role of long noncoding RNA HIF1A-AS2 in hypoxic environment of glioblastoma. Marco Mineo, Franz Ricklefs, Shawn S Lyons, Pavel Ivanov, E. Antonio Chiocca, Jakub Godlewski, [Agnieszka Bronisz](#).

**A17** A lincRNA orchestrates glioma stem cell-mediated angiogenesis in glioblastoma. Jenny J Wang, Megan Wu, Christopher Li, Uswa Shahzad, Jason Karamchandani, Phil Marsden, [Sunit Das](#).

**A18** miR-9 and miR-200 regulate PDGFR $\beta$ -mediated endothelial differentiation of neoplastic cells in triple-negative breast cancer. [Elvira D'Ippolito](#), Ilaria Plantamura, Lucia Bongiovanni, Patrizia Casalini, Sara Baroni, Claudia Piovan, Rosaria Orlandi, Ambra V Gualeni, Annunziata Gloghini, Anna Rossini, Filippo De Braud, Elda Tagliabue, Claudio Tripodo, Marilena V Iorio.

**A19** A miRNA that promotes RAS driven oncogenesis and initiates lung tumorigenesis. [Mick D Edmonds](#), Kelli L Boyd, Tamara K Moyo, Mitra Ramkrishna, Robert J Duszynski, Pia Arrate, Steven Chen, Zhoa Zhonming, Timothy S Blackwell, Thomas Andl, Christine M Eischen.

**A20** Innovative drug discovery for bladder cancer by miR-130 family seed-targeting locked nucleic acid. [Hiroshi Egawa](#), Kentaro Jingushi, Yuko Ueda, Kaori Kitae, Wataru Nakata, Kazutoshi Fujita, Motohide Uemura, Norio Nonomura, Kazutake Tsujikawa.

**A21** MiR-106a and miR-106b affect growth and metastasis of lung adenocarcinoma. [Katey SS Enfield](#), David A Rowbotham, Alice Holly, Christine Anderson, Kevin W Ng, Brenda de Carvalho Minatel, Graham Dellaire, Chiara Pastrello, Igor Jurisica, Calum MacAulay, Stephen Lam, Wan L Lam.

**A22** Functional long noncoding RNAs in castration-resistant prostate cancer. [Teng Fei](#), Yiwen Chen, Xiaole Shirley Liu, Myles Brown.

**A23** MiR-380-5p interferes with telomerase activity by downregulating TEP1 and leads to the activation of the alternative lengthening of telomeres in cancer cells. Graziella Cimino-Reale, Paolo Gandellini, Nadia Zaffaroni, [Marco Folini](#).

## Regulation of Noncoding RNAs in Cancer

**A24** HDAC inhibition unmask a microRNA-mediated mechanism of tumor suppression. [Clare M Adams](#), Scott W Hiebert, Christine M Eischen.

**A25** MicroRNAs associated with chemoresistance in gastric cancer patients tumors treated with neoadjuvant chemotherapy. [Michelle Maccarini Barcelos-Baldoni](#), Claudia Malheiros Coutinho-Camillo, Renato David Puga, Maria Dirlei Ferreira-Begnami.

**A26** Importance of long noncoding RNAs in human papillomavirus-related cancers. [Jamie A Barr](#), Karen E Hayes, Ivan Martinez.

**A27** Long noncoding RNA expression in cytogenetically normal acute myeloid leukemia identifies a distinct signature associated with NPM1 mutations. Etienne De Clara, Hanjing Ma, François Vergez, Cathy Quelen, Sébastien Dejean, Cécile Demur, Eric Delabesse, Christian Recher, Christian Touriol, Maria Paola Martelli, Brunangelo Falini, Pierre Brousset, [Marina Bousquet](#).

**A28** Regulation and functions of Epstein-Barr virus encoded miRNA and noncoding RNA in nasopharyngeal carcinoma. Rob J. A. Verhoeven, Shuang Tong, Gaohong Zhang, Bobo Wing-Yee Mok, [Honglin Chen](#).

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**A29 Hypoxia regulated long noncoding RNAs and antisense transcripts in breast cancer: Novel insights of noncoding transcriptional regulation in hypoxic microenvironment.** [Hani Choudhry](#), Ashwag Albukhari, Matteo Morotti, Syed Haider, Daniela Moralli, Johannes Schödel, Catherine Green, Carme Camps, Francesca Buffa, Peter Ratcliffe, Ioannis Ragoussis, David Mole, Adrian Harris.

**A30 The microRNA processing endoribonuclease DICER has altered expression in pancreatic ductal adenocarcinoma and prognostic implications.** [Adam Enver Frampton](#), Niccola Funel, Elisa Giovannetti, Raida Ahmad, Leandro Castellano, Jonathan Krell, Thomas Knösel, Long R Jiao, Justin Stebbing.

**A31 Genome-wide microRNA profiling analysis of breast cancer among African American and European American women.** [Zhihong Gong](#), Dan Wang, Allyson Espinal, Qiang Hu, Lara Sucheston-Campbell, Li Tang, Jo Freudenheim, Peter Shields, Carl Morrison, Steven Belinsky, Song Liu, Kitaw Demissie, Michael Higgins, Christine Ambrosone.

**A32 The RNA-binding protein DDX1 promotes primary microRNA maturation and inhibits ovarian tumor progression.** [Cecil Han](#), Xiongbin Lu, Xinna Zhang.

**A33 Targeting long noncoding RNA and linking methylome signatures to basal-like breast cancer in African Americans.** [Yoo Jeong Han](#), Jing Zhang, Sonja Boatman, Xingyu Lu, Jeffrey Mueller, Wei Zhang, Chuan He, Olufunmilayo Olopade.

**A34 The discovery of novel noncoding circular RNAs generated by high-risk human papillomavirus type 16.** [Karen E Hayes](#), Jamie A Barr, Jeremy E Wilusz, Ivan Martinez.

**A35 Increased expression of PCGEM1 lncRNA in prostate cancer of African American men.** Jocelyn Lee, [Muhammad Jamal](#), Wusheng Yan, Denise young, Yingjie Song, Yongmei Chen, Shilpa Katta, Lakshmi Ravindranath, Alagarsamy Srinivasan, Jennifer Cullen, Jacob Kagan, Sudhir Srivastava, Albert Dobi, Inger L Rosner, David G McLeod, Isabell A Sesterhenn, Shiv Srivastava, Gyorgy Petrovics.

**A36 A systematic network-based approach to prioritizing lncRNA drivers in cancers.** [Jun Li](#), Zhicheng Zhou, Han Liang.

### Mechanisms of Noncoding RNAs in Tumorigenesis

**A37 Overexpression of microRNA (miR) 199a-3p reduces proliferation through the induction of G2/M arrest in esophageal cancer cells by targeting cyclin D1.** [Pornima Phatak](#), Kimberly Byrnes, Jaladanki N Rao, Douglas J Turner, Jian Y Wang, James M Donahue.

### Regulation of Noncoding RNAs in Cancer

**A38 The role of microRNA in chemoresistance in glioblastoma multiforme.** [Theresa Relation](#), Ji Young Yoo, Selene Virk, Chelsea Bolyard, Cristina Jaime-Ramirez, Jill Barnholtz-Sloan, Balveen Kaur.

**A39 Epigenetic upregulation of lncRNA HOTAIR expression in three-dimensional culture of triple-negative breast cancer cells.** Miao Li, Xi Li, [Bin Shan](#).

**A40 Epigenomic profiling identifies NCRNAs as novel tumor suppressors in developmental tumors.** David Herrero-Martin, Franck Court, Santiago Rello-Varona, Miguel Sainz-Jaspeado, Raquel Buj, Sebastian Moran, Silvia Garcia-Monclus, Juan Huertas-Martinez, Jaume Mora, Miquel Angel Peinado, Javier Alonso, Enrique de Alava, Dave Monk, Manel Esteller, [Oscar M Tirado](#).

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**A41** A single let-7 microRNA bypasses LIN28-mediated repression. [Robinson Triboulet](#), Mehdi Pirouz, Richard I Gregory.

**A42** LncRNA-p23154--miR-375 axis regulates OSCC glycolysis by targeting SCL2A1. [Yun Wang](#), Bin Cheng.

### **Genomics of Noncoding RNAs in Cancer**

**A43** Long noncoding RNAs as targets of mammary tumor cell proliferation and migration. [Sarah D Diermeier](#), Kung-Chi Chang, Susan M Freier, Frank Rigo, C. Frank Bennett, David L Spector.

**A44** Randomized adapter pools for microRNA sequencing of colorectal cancer cell lines and primary tumors. [Peter W Eide](#), Lina Cekaite, Ping Xu, Leonardo A Meza-Zepeda, Tamas Dalmay, Ragnhild A Lothe.

**A45** GAS5-encoded intronic snoRNAs produce specific sdRNAs overexpressed in aggressive prostate cancer. [Elena S Martens-Uzunova](#), Anton Kalsbeek, Youri Hoogstrate, Adam Baker, Soren Jensby Nielsen, Tapio Visakorpi, Chris Bangma, Guido Jenster.

**A46** Tissue biology is shaped by noncoding RNAs that depend on gender, population, and race. [Isidore Rigoutsos](#), Aristeidis Telonis, Phillipe Loher, Eric Londin.

**A47** A microRNA signature identifies subtypes of triple-negative breast cancer and reveals miR-342-3p as regulator of a lactate metabolic pathway through silencing monocarboxylate transporter 1. [Sandra L Romero-Cordoba](#), Sergio Rodriguez-Cuevas, Rosa Rebollar-Vega, Veronica Bautista-Pina, Antonio Maffuz-Aziz, Elda Tagliabue, Marilena Iorio, Elvira D'Ippolito, Sara Baroni, Ilaria Plantamura, Alfredo Hidalgo-Miranda.

**A48** The lncRNA HOTAIR is overexpressed in Ewing sarcoma and promotes malignant transformation through interactions with histone-modifying complexes. Hasan Siddiqui, Julia Selich-Taylor, Joshua Felgenhauer, Satoru Otsuru, Edwin Horwitz, [Nilay Shah](#).

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## Noncoding RNA Functions

**B01, PR07** Precise let-7 expression levels balance organ regeneration against tumor suppression. [Liem Hieu Nguyen](#), Linwei Wu, Hao Zhu.

## Mechanisms of Noncoding RNAs in Tumorigenesis

**B02, PR11** Differentiation of mammary tumors and reduction in metastasis upon Malat1 LncRNA loss. [Gayatri Arun](#), Sarah Diermeier, Martin Akerman, Kung-Chi Chang, J.Erby Wilkinson, Stephen Hearn, Youngsoo Kim, A.Robert MacLeod, Adrian R Krainer, Larry Norton, Edi Brogi, Mikala Egeblad, David L Spector.

**B03** miR-875-5p impairs prostate cancer metastasis by remodeling tumor secretome via EGFR suppression. Nicola Fenderico, Denis Cominetti, Rihan El Bezawy, Monica Tortoreto, Matteo Dugo, Riccardo Valdagni, Nadia Zaffaroni, [Paolo Gandellini](#).

**B04** The long noncoding RNA - PRINS as a novel recurrence biomarker and tumour suppressor for adrenocortical carcinoma. [Anthony R Glover](#), Jing T Zhao, Lauren J S Joo, Anthony J Gill, Bruce G Robinson, Stan B Sidhu.

**B05** MicroRNA-206 drives rhabdomyosarcoma differentiation through downregulation of PAX7. [Jason A. Hanna](#), Matthew R. Garcia, Jonathan C. Go, David Finkelstein, Kiran Kodali, Vishwajeeth Pagala, Eric N. Olson, Junmin Peng, Mark E. Hatley.

**B06, PR05** Dicer1 deletion: Sufficient for angiosarcoma development and a haploinsufficient tumor suppressor in rhabdomyosarcoma. Jason A. Hanna, Matthew R Garcia, Jerold Rehg, [Mark E. Hatley](#).

**B07** Long noncoding RNAs underlying genetic predispositions to prostate cancer. Haiyang Guo, Musaddeque Ahmed, Junjie Tony Hua, Yi Liang, [Housheng Hansen He](#).

**B08** Expression of noncoding RNAs on the DLK1-DIO1 locus in EMT and breast cancer. [Bylgja Hilmarsdottir](#), Eirikur Briem, Jon Thor Bergthorsson, Thorarinn Gudjonsson, Magnus Karl Magnusson.

**B09, PR10** HiClinc-1, a highly conserved Cancer-Testis lncRNA, regulates cell proliferation and tumor onset. [Yasuyuki Hosono](#), John Prensner, Matthew Iyer, Yashar Niknafs, Rohit Malik, Anton Poliakov, Xuhong Cao, Jordan Shavit, Rohit Mehra, Weibin Zhou, Arul M Chinnaiyan.

**B10** Overexpression of the lncRNA PVT1 contributes to the cervical cancer phenotype, possibly via association with nucleolin. [Marissa Iden](#), Samantha Fye, Keguo Li, Tamjid Chowdhury, Ramani Ramchandran, Janet S Rader.

**B11** Long noncoding RNA UPAT promotes colon tumorigenesis by inhibiting degradation of UHRF1. [Taniue Kenzui](#), Takeda Yasuko, Akiyama Tetsu.

**B12** Rapamycin-induced miR-21 promotes the survival of mTORC1 hyperactivated cells in tuberous sclerosis complex models. [Hilaire C Lam](#), Harilaos Filippakis, Katherine A Cottrill, Alicia Llorente Lope, Damir Khabibullin, Carmen Priolo, Barbara Ogorek, Stephen Y Chan, Ana Pereira, Elizabeth P Henske.

**B13** Eradication of neuroblastoma by suppressing the expression of a single long noncoding RNA. Pei Y Liu, Andrew E Tee, Bernard Atmadibrata, Pieter Mestdagh, Jo Vandesompele, Marcel Dinger, [Tao Liu](#).

**B14** Tanshinones suppress AURKA through up-regulation of miR-32 expression in non-small cell lung cancer. [Zhongliang Ma](#), Bingjie Zhang, Yanli Li.

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**B15** MicroRNA-145/145\* as a dual tumor-suppressor targeting UHRF1 in bladder cancer. [Ryosuke Matsushita](#), Naohiko Seki, Hirofumi Yoshino, Yusuke Goto, Kazutaka Miyamoto, Masaya Yonemori, Hideki Enokida, Masayuki Nakagawa.

**B16, PR09** MicroRNA-24 transferred from platelet-derived microparticles to tumor cells in solid tumors targets mt-Nd2 mRNA and modulates mitochondrial function and tumor growth. [James V. Michael](#), Jeremy G.T. Wurtzel, Guang Fen Mao, A. Koneti Rao, Nicholas E. Hoffman, Muniswamy Madesh, Fabian J. Prado, Marvin Nieman, Jesse W. Rowley, Andrew S. Weyrich, Lawrence E. Goldfinger.

## Clinical Translation of Noncoding RNA Therapies

**B17** Identification and characterization of androgen receptor regulating miRNAs through complementary functional screening. [Binod Kumar](#), Salar Khaleghzadegan, Brian Mears, Tarana Kudrolli, Wasim Chowdhury, Koji Hatano, David B Yeater, Charles Ewing, William B Isaacs, Luigi Marchionni, Shawn E Lupold.

## Mechanisms of Noncoding RNAs in Tumorigenesis

**B18** The role of lncRNA EWSAT2 in Ewing cell growth. [Ping S. Ngok](#), Marcus Breese, E. Alejandro Sweet-Cordero.

**B19** Interrogation of the landscape of long noncoding RNAs in breast cancer to identify an ER-regulated predictor of tamoxifen resistance. [Yashar S Niknafs](#), Sumin Han, Teng Ma, Chao Zhang, Matthew K Iyer, Rohit Malik, Anton Poliakov, Corey Speers, Daniel Hayes, James Rae, Felix Y Feng, Arul M Chinnaiyan.

## Regulation of Noncoding RNAs in Cancer

**B20** miR-211 Functions as a metabolic switch in human melanoma cells. Joseph Mazar, Feng Qi, Bongyong Lee, John Marchica, Subramaniam Govindarajan, John Shelley, Jian-Liang Li, Animesh Ray, [Ranjan J Perera](#).

## Mechanisms of Noncoding RNAs in Tumorigenesis

**B21** A long noncoding RNA LINC00467 regulates autophagy in cancer. [Kevin J Pridham](#), Sujuan Guo, Zhi Sheng.

**B22** Targeting a MAPK-miR-124-Sox9 axis radiosensitizes human glioblastoma cells. [Hanna Sabelstrom](#), Rahul Jandial, Ksenya Shchors, Selma Masic, Supna Saxena, Edith Yuan, Trenten Fenster, Allen Ho, Scott Vandenberg, Theodore P Nicolaidis, Kim Nguyen, Stanislava Yakovenko, Michael D Prados, C. David James, Mitchel S Berger, Gerard I Evan, Evan Y Snyder, Johan Jakobsson, William A Weiss, Anders I Persson.

**B23** Role of noncoding RNAs in regulating human papilloma virus-16 (HPV-16) induced oncogenesis in head and neck squamous cell carcinoma (HNSCC). [Malay Kumar Sannigrahi](#), Varinder Singh, Rajni Sharma, Naresh K Panda, Madhu Khullar.

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**B24 Identification of immunosuppressive networks in colon cancer.** [Anne E Sarver](#), Aaron L Sarver, Subbaya Subramanian.

**B25 A KRAS dependency microRNA signature reveals a p62/Sqstm1-centered autophagy network regulated by mir-124.** Anita Mehta, Kevin Hua, William Whipple, Minh-Thuy Nguyen, Stephanie Bartley, Margaret McGuinness, Jeff Settleman, Joanne Weidhass, [Anurag Singh](#).

**B26 OIP5-Antisense 1, a long noncoding RNA deregulated in non-small cell lung cancer.** [Greg L Stewart](#), Katey SS Enfield, David A Rowbotham, Roland Hubaux, Victor Martinez, Stephen Lam, Wan Lam.

**B27 A specialized mechanism of microRNA-mediated translation in quiescence.** Syed Irfan Ahmed Bukhari, Sooncheol Lee, Samuel Spencer Truesdell, Swapna Kollu, Anthony Classon, Akiko Yanagiya, [Shobha Vasudevan](#).

**B28 PTENpg1 antisense RNA mediates PTEN suppression in vemurafenib resistance and predicts clinical outcome in melanoma patients.** [Linda Vidarsdottir](#), Alireza Azimi, Jason Serviss, Christian Ingvar, Göran Jönsson, Håkan Olsson, Marianne Frostvik Stolt, Johan Hansson, Suzanne Egyházi Brage, Dan Grandér, Per Johnsson.

**B29 XIST plays roles in maintenance of mesenchymal-to-epithelial transition state of breast cancer stem cells.** [Yongyou Zhu](#), Li Shang, Justin Colacino, Qingxuan Song, Chang-Ching Lin, Ramdane Harouaka, Evelyn Jiagge, Ming Luo, Michael Brooks, Ebrahim Azizi, Tahra Luther, Jill Granger, Max S. Wicha.

## Biomarkers and Extracellular RNAs

**B30 High-throughput, purification-free, multiplexed profiling of circulating miRNA for discovery, validation, and diagnostics.** Isaac Stoner, Michael Tackett, Conor Rafferty, Andreas Windemuth, [Elnaz Atabakhsh](#), Jessica Tytell, Daniel Pregibon.

**B31 Bladder cancer patient urinary exosomes and tumors contain long noncoding RNA that may serve as therapeutic targets and biomarkers.** Claudia Berrondo, Jonathan Flax, Aisha Siebert, Victor Kucherov, Alex Rosenberg, Christopher Fucile, [Carla Beckham](#).

**B32 Longitudinal changes in plasma miRNA in patients with benign and malignant colorectal neoplasia.** [Jane Carter](#), Vanessa States, Uri Netz, Jianmin Pan, Shesh Rai, Susan Galandiuk.

**B33 miR-1207-3p, a novel biomarker of aggressive prostate cancer, displays differential expression in Caucasian men versus men of African ancestry.** [Dibash K. Das](#), Joseph R. Osborne, Jong Y. Park, Olorunseun O. Ogunwobi.

**B34 Secreted microRNAs from prostate cancer cells: Novel therapeutic targets.** [Nicholas H Farina](#), Cody J Callahan, Coralee E Tye, Joseph R Boyd, Gary S Stein, Janet L Stein, Jane B Lian.

**B35 Differences in extracellular vesicle nucleic acid content show promise as prostate cancer biomarkers.** [Helen Jankowski](#), Belinda Goldie, Joshua Brzozowski, Danielle Bond, Christopher Scarlett, Kathryn Skelding, Judith Weidenhofer.

**B36 Developing circRNA signatures as a biomarker for the early diagnosis of Pancreatic Carcinoma.** [Jessica Kalra](#), Keith Laderoute, Daniel Renouf, David Shaeffer, Marcel Bally.

**B37 Small nucleolar RNAs – New players in breast cancer prognosis.** [Preethi Krishnan](#), Sunita Ghosh, Bo Wang, Dongping Li, Richard Berendt, John R Mackey, Olga Kovalchuk, Sambasivarao Damaraju.

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**B38** Cancer-related circulating long noncoding RNAs in serous extracellular vesicles: Their Characterization and Potential Application. [Dong Lei](#), Lin Wanrun , Qi Peng, Xu Midie, Du Xiang.

**B39** Long noncoding RNA PCAT14/PRCAT104; a prognostic biomarker in prostate cancer. [Rohit Malik](#), Xiang Zhang, Sudhanshu Shukla, Yashar Y Niknafs, Shuang Zhao, Felix Y Feng, Arul M Chinnaiyan.

**B40** A two-microRNA signature in urinary exosomes for diagnosis of prostate cancer. Peter Mouritzen, Jacob Christian Fredsøe, Thorarinn Blondal, [Anne Karin Rasmussen](#), Michael Borre, Christa Haldrup, Ditte Andreasen, Niels Tolstrup, Torben Falck Ørntoft, Karina Dalsgaard Sørensen.

**B41, PR13** Development of a microRNA mimic delivered by targeted nanocells as a treatment for patients with recurrent thoracic cancer. [Glen Reid](#), Steven Kao, Marcella Pel, Michaela Kirschner, Yuen Cheng, Marissa Williams, Nancy Mugridge, Jocelyn Weiss, Michael Boyer, Anthony Linton, Scott Pattison, Felicity Leslie, Yennie Huynh, Mark Molloy, Ruby Lin, Himanshu Brahmhatt, Jennifer MacDiarmid, Stephen Clarke, Nick Pavlakis, Nico van Zandwijk.

**B42** A two-lncRNA signature in serous exosomes serves as a new biomarker for colorectal cancer diagnosis. [Peng Qi](#), Lei Dong, Wanrun Lin, Xiaoyan Zhou, Xiang Du.

**B43** Evaluation of a miRNA-mRNA panel for esophageal cancer detection. [Priyanka Sharma](#), Anoop Saraya, Rinu Sharma.

### **Science of RNA Therapeutics and Delivery**

**B44, PR12** Robust modulation of gene expression in aggressive glioblastoma mouse models: A new approach for in vivo target validation. [Andrew H Coles](#), Maire F Osborn, Diane Golebowski, Matthew Hassler, Miguel S Esteves, Anastasia Khvorova.

### **Clinical Translation of Noncoding RNA Therapies**

**B45, PR14** Potent knock down of lncRNAs in vitro and in vivo with antisense LNA™ GapmeRs. Johnathan Lai, Asli Ozen, Peter Mouritzen, Niels Tolstrup, [Niels Montano Frandsen](#).

**B46** miRNA-193a-5p repression of p73 induces cisplatin chemoresistance in bone-related sarcomas. [Camille Jacques](#), François Lamoureux, Marc Baud'huin, Lidia Rodriguez Calleja, Dominique Heymann, Benjamin Ory.