

ISCaM2015



International Society  
of Cancer Metabolism

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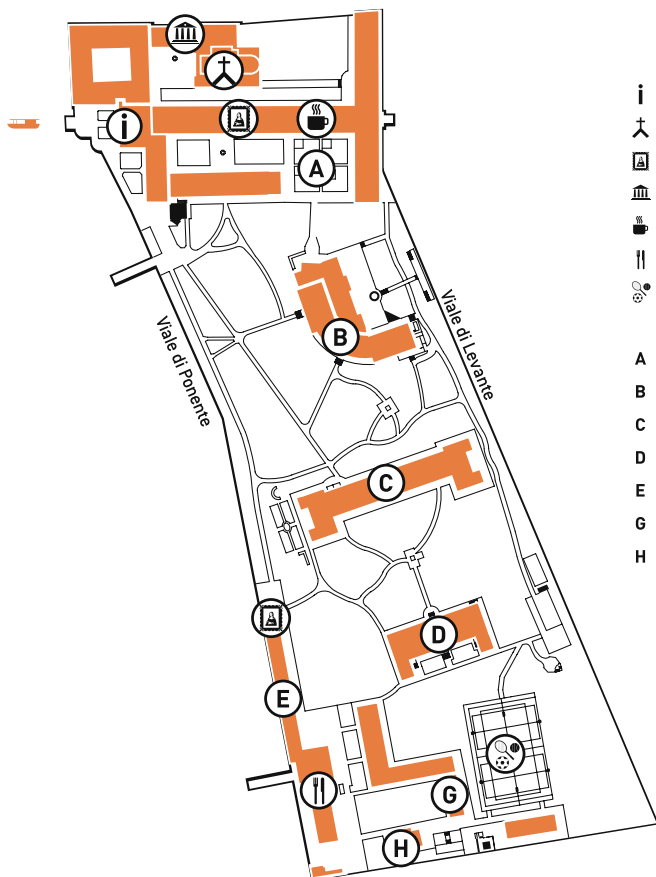
**2<sup>nd</sup> ANNUAL MEETING  
OF THE INTERNATIONAL SOCIETY  
OF CANCER METABOLISM**

**16-19 September 2015 | VENICE - Italy**

**METABOLISM and MICROENVIRONMENT in CANCER PLASTICITY**

# ISOLA DI SAN SERVOLO

Venice - Italy



## Legenda

-  ACCOGLIENZA – INFORMAZIONI  
RECEPTION – INFORMATION
-  CHIESA  
CHURCH
-  AREE ESPOSITIVE  
EXHIBITION AREAS
-  MUSEO DEL MANICOMIO  
MUSEUM OF THE INSANE ASYLUM
-  SANSERVOLO CAFE
-  SANSERVOLO RESTAURANT
-  CAMPI SPORTIVI  
SPORTS FACILITIES
  
- A** PIAZZA BADEN-POWELL  
BADEN-POWELL SQUARE
- B** PALAZZINA GRECALE  
BUILDING GRECALE
- C** PALAZZINA MAESTRALE  
BUILDING MAESTRALE
- D** PALAZZINA SCIROCCO  
BUILDING SCIROCCO
- E** PALAZZINA LIBECCIO  
BUILDING LIBECCIO
- G** PALAZZINA OSTRO  
BUILDING OSTRO
- H** PALAZZINA ZEFIRO  
BUILDING ZEFIRO

## WATERBORNE LINE 20

↓ S. Zaccaria  
↓ S. Servolo  
↓ S. Lazzaro
 ↑ S. Lazzaro  
↑ S. Servolo  
↑ S. Zaccaria

S. MARCO-S. ZACCARIA (M.V.E.) "B"	6.55	7.15	8.10	8.40	9.00	9.20	9.50	10.30	11.10	11.50	12.30	13.10	13.50	14.30
S. SERVOLO	7.05	7.25	8.20	8.50	9.10	9.30	10.00	10.40	11.20	12.00	12.40	13.20	14.00	14.40
S. LAZZARO	-	7.30	8.25	-	-	9.35	-	10.45	-	12.05	-	13.25	-	14.45
S. SERVOLO	-	7.35	8.30	-	-	9.40	-	10.50	-	12.10	-	13.30	-	14.50
S. MARCO-S.ZACCARIA (M.V.E.) "B"	7.15	7.45	8.40	9.00	9.20	9.50	10.10	11.00	11.30	12.20	12.50	13.40	14.10	15.00

S. MARCO-S. ZACCARIA (M.V.E.) "B"	15.10	15.50	16.30	17.10	17.50	18.30	19.10	19.50	20.30	21.30	22.30	23.30	0.25	1.20
S. SERVOLO	15.20	16.00	16.40	17.20	18.00	18.40	19.20	20.00	20.40	21.40	22.40	23.40	0.35	1.30
S. LAZZARO	15.25	-	16.45	17.25	-	18.45	-	-	-	-	-	-	-	-
S. SERVOLO	15.30	-	16.50	17.30	-	18.50	-	-	-	-	-	-	-	-
S. MARCO-S.ZACCARIA (M.V.E.) "B"	15.40	16.10	17.00	17.40	18.10	19.00	19.30	20.10	20.50	21.50	22.50	23.50	0.45	1.40



Dear Colleagues,

It is my great pleasure to welcome you in this very special meeting taking place 16 – 19 September 2015 in Venice, Italy.

ISCaM2015 is intended as an interdisciplinary forum to address metabolism, microenvironment, and host-disease interactions as major fields of investigation and clinical translation in cancer.

This 4-day event will cover several aspects of cancer metabolism that are involved in local and systemic aggressiveness, such as the interaction between cancer and stromal cells, microenvironmental changes, including extracellular acidification, and epigenetic modifications. Different scientific contributes will be proffered from experts not only in genomics or molecular biology, but also in biochemistry and cell biology, imaging and diagnostic techniques, and in computational analysis, as well as in health and nutrition in oncologic patients.

The annual meeting of ISCaM is not only a forum for state-of-the art overviews and contributions on the most recent findings in cancer metabolism, but also promotes and consolidate collaboration and multidisciplinary studies and provide a platform for a dialogue between young investigators and experienced scientists. Non-stop interaction among participants will be ensured in a unique venue, an isle of the Venice lagoon facing the skyline of San Marco square.

The blend of beauty and science will be an ideal background, both in the conference rooms and during the social events.

I invite you to take an active part in this conference offering insights into novel fields of investigation that will expand in the near future as strategic elements for the fight against cancer.

On behalf of the ISCaM board, I wish you an unforgettable staying.

ISCaM chair  
Sofia Avnet, PhD

A handwritten signature in black ink, which appears to read 'Sofia Avnet'.

## BOARD MEMBERS & SCIENTIFIC COMMITTEE

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**Sofia Avnet** *Italy*

**Nicola Baldini** *Italy*

**Laure Bindels** *Belgium*

**Paolo Caliceti** *Italy*

**Tokuhiro Chano** *Japan*

**Paola Chiarugi** *Italy*

**Angelo De Milito** *Sweden*

**Massimo Dominici** *Italy*

**Olivier Feron** *Belgium*

**Robert J. Gillies** *USA*

**Stefano Indraccolo** *Italy*

**Michael P. Lisanti** *UK*

**Elizabeth Maher** *USA*

**Angela Otto** *Germany*

**Silvia Pastoreková** *Slovakia*

**Stine Falsig Pedersen** *Denmark*

**Michael Pollak** *Canada*

**Stephen J. Reshkin** *Italy*

**Laura Sciacca** *Italy*

**Pierre Sonveaux** *Belgium*

**Christian Stock** *Germany*

**Claudiu Supuran** *Italy*

# PROGRAMME AT A GLANCE

## WEDNESDAY 16<sup>th</sup> SEPTEMBER

15:00  
**REGISTRATION**

16:00  
**WORKSHOP**  
How to measure  
metabolism and proton  
dynamics in cancer

18:00  
**OPENING**  
**KEYNOTE LECTURE**  
**PREVIEW OF ISCaM2015:**  
**A BRIDGE TO THE**  
**FUTURE**

19:30  
*Welcome cocktail*

## THURSDAY 17<sup>th</sup> SEPTEMBER

8:30  
**SESSION 1**  
Cancer metabolism and  
ion/proton dynamics 1

10:30  
*Coffee break*

10:50  
**SESSION 2**  
Cancer metabolism and  
ion/proton dynamics 2

12:10  
**SESSION 3**  
Microenvironmental and  
metabolic control of tumor  
survival and  
aggressiveness 1

13:30  
*Lunch*  
*Meet the professor*

14:30  
**POSTER SESSION**

15:30  
**SESSION 4**  
Microenvironmental  
and metabolic control of  
epigenetic and stemness

20:00  
*Young investigator event*

## FRIDAY 18<sup>th</sup> SEPTEMBER

8:30  
**SESSION 5**  
Microenvironmental  
and metabolic control  
of tumor survival and  
aggressiveness 2

10:20  
*Coffee break*

10:40  
**SESSION 6**  
Cancer metabolism  
and stroma

13:00  
*Lunch*  
*Meet the professor*

14:00  
**POSTER SESSION**

15:00  
**SESSION 7**  
Nutrition, exercise, and  
cancer metabolism

16:10  
**SESSION 8**  
New preclinical models to  
study cancer metabolism  
and microenvironment

17:10  
*Coffee break*

17:30  
**ISCAM GENERAL**  
**ASSEMBLY**

20:30  
*Social dinner and awards*

## SATURDAY 19<sup>th</sup> SEPTEMBER

8:20  
**SESSION 9**  
Targeting cancer  
metabolism and  
the altered  
microenvironment 1

9:50  
**SESSION 10**  
Targeting cancer  
metabolism and  
the altered  
microenvironment 2

11:10  
*Coffee break*

11:30  
**SESSION 11**  
Monitoring cancer  
metabolism in patients

13:00  
**CLOSING SESSION**

13:30  
**CLOSING REMARKS**

13:45  
*Lunch*

## WEDNESDAY, 16<sup>th</sup> SEPTEMBER

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- 15:00**            **REGISTRATION**
- 16:00**            **WORKSHOP - HOW TO MEASURE CANCER METABOLISM AND PROTON DYNAMICS IN CANCER**
- 
- 18:00**            **OPENING**  
*Lecturer: Sofia Avnet (Italy)*
- KEYNOTE LECTURE - CANCER AND METABOLISM: THE UNSUSPECTED LINK WITH EPIGENETICS AND CIRCADIAN CLOCK**  
*Lecturer: Paolo Sassone-Corsi (USA)*
- PREVIEW OF ISCaM2015: A BRIDGE TO THE FUTURE**  
*G. Di Pompo (Italy)*  
*L. Dong (Australia)*  
*V. Khramtsov (USA)*
- 19:30**            **Welcome cocktail**

## THURSDAY, 17<sup>th</sup> SEPTEMBER

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- 8:30**            **SESSION 1 - CANCER METABOLISM AND ION/PROTON DYNAMICS 1**  
*Moderators: Angela Otto, Verena Hofschröder*
- 1**            **Proton export by glycolytic cancer cells**  
*Lecturer: Pierre Sonveaux (Belgium)*
- O01**          *Proffered paper: Ion channel: novel druggable molecular drivers of tumor progression*  
*A. Arcangeli, O. Crociani (Italy)*
- O02**          *Proffered paper: Roles and regulation of acid extruding transport proteins in pancreatic ductal adenocarcinoma*  
*S.F. Pedersen, S.C. Kong, K. Zeeberg, A. Gorbatenko, A. Noehr-Nielsen, E. Pedraz-Cuesta, K. Zeeberg, I. Novak, S.J. Reshkin, C. M. Stock (Denmark)*
- O03**          *Proffered paper: The Na<sup>+</sup>/H<sup>+</sup> exchanger (NHE1) determines the mechanical strength of melanoma cell-cell adhesion*  
*V. Hofschröder, K. Koch, F. Ludwig, A. Schwab, C. Stock (Germany)*
- 10:00**        **2**            **New perspectives on the roles of the Na<sup>+</sup>/H<sup>+</sup> exchanger NHE1 in metastasis**  
*Lecturer: Christian Stock (Germany)*
- 
- 10:30**        **Coffee break**
-

- 10:50**      **SESSION 2 - CANCER METABOLISM AND ION/PROTON DYNAMICS 2**  
*Moderators: Silvia Pastoreková, Cyril Corbet*
- 3**      **Carbonic anhydrase IX: a validated antitumor drug target**  
*Lecturer: Claudiu Supuran (Italy)*
- 004**      *Proffered paper: Knockdown of net acid extruding transporters NHE1, NBCn1, or MCT4 attenuates xenograft growth of MDA-MB-231 mammary cancer cells*  
*A.P.Andersen, E.k Ørnbo, J. Samsøe-Petersen, M. Flinck, M.Kveiborg, S.F. Pedersen (Denmark)*
- 005**      **Carbonic anhydrase IX promotes oxidative glutamine and pyruvate metabolism in cancer cells**  
*E. Ondrisková, M. Kéry, O. Sedláková, P.E. Porporato, L. Brisson, M. Sboarina, J. Kopáček, S. Pastoreková, E. Švastová, P. Sonveaux (Slovakia)*
- 006**      **MCT1 plasma membrane expression as a mediator of cellular aggressiveness at hypoxic regions in glioblastomas**  
*V. Miranda-Goncalves, M. Honavar, R.M. Reis, F. Baltazar (Portugal)*
- 007**      **Relationship between sodium/iodide transporter (NIS) and reactive oxygen species in HT29-NIS cells**  
*C. Gamez, F. Castillo, A. Ondo, M. Pinzón, L. Del Riesgo, T. Pourcher, R. Garzon (Colombia)*
- 
- 12:10**      **SESSION 3 - Microenvironmental and metabolic control of tumor survival and aggressiveness 1**  
*Moderators: Stine Falsig Pedersen, Carolina Gamez*
- 4**      **Role of tumor acidosis in sensitivity to autophagy inhibition**  
*Lecturer: Angelo De Milito (Sweden) – Sponsored by EACR*
- 008**      *Proffered paper: Cell surface NADH-oxidase activity on tumor cells under variable metabolite conditions*  
*A. Otto, J. Hintermair, C. Janzon (Germany)*
- 010**      **PKA activation promotes cancer cell resistance to glucose starvation and anoikis**  
*R. Palorini, G. Votta, Y. Pirola, S. De Palma, C. Airoidi, H. de Vitto, M. Vasso, F. Ricciardiello, C. Cirulli, R. Rizzi, F. Nicotra, C. Gelfi, L. Alberghina, F. Chiaradonna (Italy)*
- 011**      **Regulation of hepatic glucose metabolism and its implication in hepatocarcinoma progression: a novel role for the AAA+ ATPase Ruvbl1**  
*T. Mello, F. Zanieri, O. Bereshchenko, E. Ceni, M. Tarocchi, G.Marroncini, S.Polvani, S. Tempesti, S. Milani, A. Galli (Italy)*
- 
- 13:30**      **Lunch/Meet the Professor**
- 
- 14:30**      **POSTER SESSION**

- 15:30**      **SESSION 4 - Microenvironmental and metabolic control of epigenetic and stemness**  
*Moderators: Angelo De Milito, Jihu Dong*
- 5**      **How a glycolysis inhibitor can influence the epigenetic status of tumor cells**  
*Lecturer: Olivier Feron (Belgium)*
- 16:00**      **6**      **Tumour-specific metabolic adaptation to acidosis is coupled to epigenetic stability in osteosarcoma**  
*Lecturer: Tokuhiro Chano (Japan)*
- O12**      *Proffered paper:* **Metabolic reprogramming in response to chronic acidosis regulates tumor cell protein acetylation**  
*C.Corbet, F. Polet, A. Pinto, R. Martherus, O. Feron (Belgium)*
- O13**      **High throughput screening of human glioblastoma stem-like cells (GSCs) unveils the selective activity of bisacodyl on GSCs' survival**  
*M. Zeniou, J. Dong, M. Fève, W. Chen, G. Dubois, E. El-Habr, M.P. Junier, H. Chneiweiss, J. Haiech, M.C. Kilhoffer (France)*
- O14**      **Bisacodyl targets glioblastoma stem like cells within acidic and hypoxic environments. Study on a 3D in vitro tumor model**  
*J. Dong, M. Zeniou, W. Chen, H. Chneiweiss, J. Haiech, M.P. Clau, M.C. Kilhoffer (France)*
- O15**      **Mitochondrial glutamine oxidation is the Achille's heel of CD133-mesenchymal glioma stem cells**  
*C. Pecqueur, L. Oliver, U. Jarry, E. Scotet, F. Vallette (France)*
- O16**      **Bioenergetic modulation for melanoma stem cells**  
*L. Kucerova (Slovakia)*
- O17**      **Role of tumor stromal compartment and parental and cancer stem cell (CSC) interactions determines pancreatic ductal adenocarcinoma (PDAC) behaviors and progression**  
*K. Zeeberg, G. Biondani, M.R. Greco, P. Carso, E. Dalla Pozza, I. Dando, S. Forciniti, O. Soriani, H. Guizouarn, R.A. Cardone, M. Palmieri, S.J. Reshkin (Italy)*
- 20:00**      **Young Investigator event**



- 8:30**      **SESSION 5 - Microenvironmental and metabolic control of tumor survival and aggressiveness 2**  
*Moderators: Pierre Sonveaux, Paola Marignani*
- 7**      **Acidosis, autophagy, and lysosomes**  
*Lecturer: Robert J. Gillies (USA)*
- O18**      **Proffered paper: MIR155 drives metabolic and motile reprogramming of ER positive breast cancer cells following long-term estrogen deprivation**  
*A. Morandi, M. Bacci, L.A. Martin, G. Pintus, M.L. Taddei, E. Giannoni, P. Chiarugi (Italy)*
- O19**      **The PGC71 $\alpha$ /ERR $\alpha$  axis represses folate metabolism and promotes sensitivity to anti-folate therapy in breast cancer**  
*D. Papadopoli, É. Audet Walsh, T. Yee, M. Caron, G. Bourque, V. Giguère, J. St-Pierre (Canada)*
- O20**      **Silencing the serine pathway prevents the adaptation of leukemia cells to the inhibition of glutamine metabolism**  
*F. Polet, C. Corbet, V. Bol, C. Bouzin, V. Grégoire, O. Feron (Belgium)*
- O21**      **The unexpected role of hemoglobin beta (HBB) in breast cancer**  
*N. Rucci, M. Capulli, A. Angelucci, M. Ponzetti, L. Ventura, S. Delle Monache, C. Mercurio, A. Calgani, P. Sanità, A. Teti (Italy)*
- O22**      **Energy restriction regulates BCR/Abl expression in chronic myeloid leukaemia cells via transcriptional/post-transcriptional control**  
*S. Bono, M. Lulli, F. Di Gesualdo, E. Rovida, P. Dello Sbarba (Italy)*
- O23**      **Functional interplay between the hypoxic and adenosinergic axes in the chronic lymphocytic leukemia microenvironment**  
*S. Serra, D. Brusa, R. Buonincontri, V. Audrito, T. Vaisitti, S. Robson, S. Deaglio (Italy)*
- O24**      **Exosomes mediate drug resistance transfer in osteosarcoma**  
*F. Perut, L. Roncuzzi, E. Torreggiani, N. Zini, N. Baldini (Italy)*
- 
- 10:20**      **Coffee break**

10:40

**SESSION 6 - Cancer metabolism and stroma**

*Moderators: Elizabeth Maher, Silvia Lemma*

- 8 Targeting tumor metabolism to eradicate cancer stem cells: from drug discovery to clinical trials**

*Lecturer: Michael P. Lisanti (UK) Sponsored by Worldwide Cancer Research*

11:10

- 9 Antiangiogenic therapy and metabolic evolution of tumors**

*Lecturer: Stefano Indraccolo (Italy)*

- O25 Proffered paper: Cancer cells with dysfunctional mitochondria restore their mitochondrial function and tumorigenic capacity by acquiring mitochondria from host cells**

*L. Dong, A. Bezawork-Geleta, B. Endaya, M. Bajzikova, K. Kluckova, J. Truksa, J. Rohlena, M. Berridge, J. Neuzil (Australia)*

- O26 Acidosis of the osteosarcoma microenvironment activates an inflammatory pathway in the surrounding stroma that leads to a more aggressive and stem like phenotype of tumor cell**

*G. Di Pompo, S. Avnet, T. Chano, K. Kusuzaki, A Ibrahim-Hashim, R. Gillies, N. Baldini (Italy)*

- O27 MCT1 as a novel target for the treatment of osteolytic bone metastases**

*S. Lemma, G. Di Pompo, M. Sboarina, P.E. Porporato, J. Perez-Escuredo, P. Sonveaux, N. Baldini, S. Avnet (Italy)*

12:20

- 10 Tumor microenvironment and therapy resistance: OXPHOS as a central player**

*Lecturer: Paola Chiarugi (Italy)*

13:00

**Lunch/Meet the Professor**

14:00

**POSTER SESSION**

15:00

**SESSION 7 - Nutrition, exercise, and cancer metabolism**

*Moderators: Michael Pollak, Sofia Avnet*

- 11 Diabetes and cancer: which link?**

*Lecturer: Laura Sciacca (Italy)*

- O28 High intensity exercise is able to inhibit glycolysis - a therapy option?**

*P. Hofmann, C. Almer, A. Muller, G. Tschakert (Austria)*

15:40

- 12 Metabolism, microbiota and cancer**

*Lecturer: Laure Bindels (Belgium)*

- 16:10**      **SESSION 8 - New preclinical models to study cancer metabolism and microenvironment**  
*Moderators: Robert J. Gillies, Andrea Cacace*
- O29** *Proffered paper:* **Quantitative constraint-based computational model of tumor-to-stroma coupling via lactate shuttle**  
*F. Capuani, D. De Martino, E. Marinari, A. De Martino (Italy)*
- O30** *Proffered paper:* **Engineering organotypic tumor microenvironment models**  
*E. D'Arcangelo, A. McGuigan (Canada)*
- O31** **Computational and mathematical approaches to tumor metabolism and microenvironment**  
*E. Milotti, S. Stella, F. Dogo, R. Chignola (Italy)*
- O32** **A mathematical model for immunotherapy of cancer**  
*M. Baar, H. Mayer, L. Coquille, M. Holzel, M. Rogava, T. Tuting, A. Bovier (Germany)*
- 
- 17:10**      **Coffee break**
- 
- 17:30**      **ISCAM GENERAL ASSEMBLY**
- 20:30**      **Social dinner and awards**

# SATURDAY, 19<sup>th</sup> SEPTEMBER

- 8:20**            **SESSION 9 - Targeting cancer metabolism and the altered microenvironment 1**  
*Moderators: Paola Chiarugi, Andrea Morandi*
- 13**            **Supramolecular architectures for triggerable tumor targeting**  
*Lecturer: Paolo Caliceti (Italy)*
- O33**            **Proffered paper: A protein-protein interaction of lactate dehydrogenase B with PHD2 stabilizes PHD2 but inhibits its activity**  
*L. Brisson, T. Copetti, C. J. De Saedeleer, P.E. Porporato, S. Dhup, C. Bouzin, O. Feron, P. Sonveaux (Belgium)*
- O34**            **MCT1 promotes cancer cell migration, invasion and metastases**  
*V.L. Payen, K.S. Räddecke, P.E. Porporato, P. Sonveaux (Belgium)*
- O35**            **A drug-screening model to identify compounds active in cells under metabolic stress**  
*P. Pellegrini, T. Lundback, M Mazurkiewicz, M. Haraldsson, P. D'Arcy, A. Jenmalm Jensen, S. Linder, A. De Milito (Sweden)*
- O37**            **Statin-induced modulation in cancer: a biomarker for targeting monocarboxylate transporters**  
*M. Mehibel, F. Ortiz-Martinez, A. Boyers, A. Chadwick, B. Telfer, K. Williams, C. West, I. Stratford (UK)*
- 
- 9:50**            **SESSION 10 - Targeting cancer metabolism and the altered microenvironment 2**  
*Moderators: Michael P. Lisanti, Manal Mehibel*
- 14**            **Reprogramming MSC as anti-cancer therapeutics**  
*Lecturer: Massimo Dominici (Italy)*
- O38**            **Proffered paper: Shutting your TRAP to kill tumors? The oncogenic role of the mitochondrial chaperone TRAP1**  
*A. Rasola (Italy)*
- O39**            **STAT3 activation: a missing link between proliferation and glutamine addiction in cancer cells**  
*A. Cacace, M. Sboarina, P. Sonveaux (Belgium)*
- O40**            **Inhibition of mitochondrial glutamine oxidation induces cell cycle arrest and TRAIL-induced cell death in glioma cells**  
*K. Oizel, C. Gratas, L. Oliver, F. Vallette, C. Pecaqueur (France)*
- O41**            **Targeting mTOR and cancer metabolism for overcoming resistance in HER2-positive breast cancer**  
*P. Marnigani (Canada)*
- 
- 11:10**            **Coffee break**
-

- 11:30**      **SESSION 11 - Monitoring cancer metabolism in patients**  
*Moderators: Raffaele Lodi, Rosy Favicchio*
- 15**      **Metabolic imaging: Incorporation into basic discovery, clinical trials, and patient care**  
*Lecturer: Elizabeth Maher (USA)*
- O42**      **Proffered paper: Profiling tumor microenvironment: relationship to cancer metabolism and oxidative stress**  
*V. Khramtsov, A. Bobko, I. Dhimitruka, J. Evans, M. Dikov, T. Eubank (OH, USA)*
- O43**      **Proffered paper: Choline metabolism is an early predictor of EGFR-mediated survival in NSCLC**  
*R. Favicchio, D. Brickute, N. Angelopoulos, R. Fortt, F. Twyman, G. Giamas, J.C. Lacal, E.O. Aboagye (UK)*
- O44**      **Defining the role of Nicotinamide phosphoribosyltransferase (NAMPT) as prognostic markers and therapeutic targets in metastatic melanoma**  
*V. Audrito, D. Brusa, D. Massi, G. Baroni, C. Procaccini, G. Matarese, N. Raffaelli, M. Mandalà, S. Deaglio (Italy)*
- O45**      **A new paradigm for monitoring hyperthermia effects in cancer treatment: quantitative descriptors of thermal heterogeneity**  
*N.W. Luts, M. Bernard (France)*
- 
- 13:00**      **CLOSING SESSION**  
*Moderator: Nicola Baldini*
- 16**      **Metformin and other biguanides to treat cancer - an overview of the rationale and the preclinical and clinical studies**  
*Lecturer: Michael Pollak (Canada)*
- 
- 13:30**      **Closing remarks**
- 
- 13:45**      **Lunch**

- P01 **Targeting lactate transport suppresses in vivo breast tumor growth**  
*F. Morais-Santos, S. Granja, V. Miranda-Gonçalves, A.H.J. Moreira, J. L. Vilaça, J. Paredes, F.C. Schmitt, F. Baltazar, C. Pinheiro (Portugal)*
- P02 **Suppression of CA IX reduces the glycolytic capacity of cancer cells in hypoxia**  
*M. Benej, E. Švastová, M. Repič, R. Vulič, N. Zambrano, A. Scaloni, J. Kopáček, N.C. Denko, S. Pastorekova (Slovakia)*
- P03 **Effect of CA IX on HIF-1 $\alpha$  and mitochondrial metabolism in hypoxic cancer cells**  
*M. Kery, E. Svastova, P. Radvak, S. Pastorekova, J. Kopacek (Slovakia)*
- P04 **The Warburg effect: a new relevant road in the biology of adrenocortical tumors in adults**  
*S. Granja, C. Pinheiro, A. Longatto-Filho, M. Q. Almeida, A.M. Faria, M. Candida, B.V. Fragoso, S.M. Lovisoló, A.M. Lerário, F. Baltazar, M.C.N. Zerbini (Portugal)*
- P05 **CAs as potential therapeutic targets in hepatocellular carcinoma**  
*A. Tuccitto, O. Kuchuk, V. Beretta, F. Rini, A. Cova, D. Citterio, V. Huber, M. Milione, A. Villa, B. Vergani, P. Squarcina, D. Giardiello, L. Mariani, C.T. Supuran, V. Mazzaferro, L. Rivoltini, C. Catelli (Italy)*
- P06 **TGF- $\beta$  induces epithelial-to-mesenchymal transition (EMT) and upregulation of KLF4 and NBCn1 in pancreatic cancer cells**  
*R.R. Malinda, L.B. Pedersen, S.F. Pedersen (Denmark)*
- P07 **Investigation of the dimerization potential of the Na<sup>+</sup>/H<sup>+</sup>-Exchanger 1 (NHE1) extracellular loop 1 as a possible drug target**  
*A.H. Bendsoe, N.B. Pedersen, B.B. Kragelund, S.F. Pedersen (Denmark)*
- P08 **Invadopodia formation and extensive extracellular matrix degradation of tumor cells depend on CA IX expression and catalytic activity**  
*M. Debreova, L. Csaderova, O. Sedlakova, S. Pastoreková, E. Svastova (Slovakia)*
- P09 **Roles of pH regulation in growth and proliferation of MCF7 breast cancer cells**  
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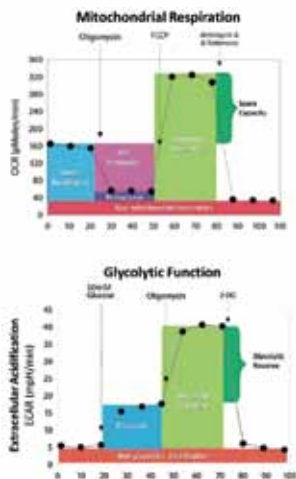


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