Nome:	**Stephan Joel RESHKIN**
Nato:	Luglio 7, 1950 Kansas City, MO, USA
Cittadinanza:	USA/Italy
Indirizzo Lavoro:	Dipartimento di Bioscienze, Biotecnologie e Biofarmaceutica Via E. Orabona 4 70125 Bari tel: 39/80/544-3395 Fax: 39/80/544-3388 e-mail: stephanjoel.reshkin@uniba.it

Attivita' Accademica

1995-2005	Ricercatore Confermato; presso Dipartimento di Fisiologia Generale ed Ambientale, Univ. degli Studi di Bari, Italia
2005-presente	Professore Associato; presso Dipartimento di Fisiologia Generale ed Ambientale, Univ. degli Studi di Bari, Italia

Istruzione e formazione

1981-1984	Laurea in Scienze Biologiche presso l'Universita' di California Santa Cruz (110/110 e lode)
1985-1988	Dottorato di Ricerca; presso il laboratorio di Dr. G.A. Ahearn, Dipartimento di Zoologia, Univ. of Hawaii, USA
1988-1990	Ricercatore Post-Dottorato; laboratorio di Dr. H. Murer, Dipartimento di Fisiologia della Facolta' di Medicina dell' Universita' di Zurigo, Svizzera.
1991-1992	Ricercatore, National Institutes of Health, Bethesda, USA
1993	Professore a Contratto; Istituto di Fisiologia Generale, Univ. di Bari, Bari, Italia.
1993-1995	Ricercatore a Contratto; presso l'Istituto Oncologico, Bari, Italia.

Onori e Premi ricevuti

1986:	Sigma Xi scholarship
1988:	Achievement Rewards for College Scientists (ARCS) academic award
1993:	Premio di Studio dal "L'Accademia Nazionale di Medicina Forum per la Formazione Biomedica"

Attività didattica

1999-2000	Course of "Physiology of Aquatic Animals" for the specialization entitled: "Marine Biochemistry and Biotechnology applied to fishing and to aquaculture" at the Medicine Faculty of the University of Bari.
2000-2001	Course of "Physiology of marine organisms" in the Natural Sciences of the Faculty of Science of the University of Bari.
2001-2010	Course of "Environmental Physiology" as his institutional teaching duty for the triannual program in Biology Applied to the Ecosystems of the Faculty of Science of the University of Bari.
2001-2010	Course of "Cellular and Molecular Techniques in Physiology" as an adjunctive duty for the triannual program in Cellular and Molecular Biology of the Faculty of Science of the University of Bari.
2010-present	Course of "Environmental Physiology" as his institutional teaching duty for the program Magistrale in Biology Applied to the Ecosystems of the Faculty of Science of the University of Bari.
2010-present	Course of "Molecular Physiology" as an institutional teaching duty for the program Magistrale in Cellular and Molecular Biology of the Faculty of Science of the University of Bari.
2000-present	Prof. Reshkin is part of the college of docents in the Doctural Program "Cellular and Molecular Techniques in Physiology" in which he teaches 'Scientific English Writing and Communication' in addition to his role in mentoring the doctoral students assigned to him.

Direzione di Progetti da 2000

2000:	Finanziamento dell' CNR. 99.02574.CT04 for project entitled "Analisi dei meccanismi cellulari implicati nell'attivita' antineoplastica dei Taxani in linee cellulari mammarie tumorali: effetti biologici e trasduzione del segnale." £ 10.000.000
2001-2002:	Finanziamento dell' Associazione Italiana per la Ricerca contro il Cancro (AIRC): "Early events in Papillomavirus transformation: the elucidation of alterations in signal transduction pathways". € 40.000,00
2002-2003	Finanziamento dell' MIUR-CNR PROGETTO "ONCOLOGIA", Sottoprogetto 3 "DIAGNOSTICA MOLECOLARE IN ONCOLOGIA" for project entitled: "Rilevazione delle alterazioni mitocondriali e della omeostasi cellulare in fluidi biologici come marcatori di diagnosi precoce di cancerogenesi". € 46,000,00
2003-2005	Finanziamento dell' FIRB-MUIR RBAU01B3A3 for project entitled: "Ruolo della variante di splicing dell'integrina Beta1C nel ciclo cellulare, trasformazione neoplastica e apoptosi delle cellule mammarie umane." € 90.000,00

2007	Funds of the Ateneo "Role of NHE1 proton transporter in cell invasion"
2007-2009	Finanziamento dell' Associazione Italiana per la Ricerca contro il Cancro (AIRC): "Role of disturbed pH dynamics and the NHE1 proton transporter in tumor invasion and bone metastasis".
2007-2009	Italian Health Ministry Strategic Grant 'Progetto Oncologico Progetto 3, U.O. n. 3' "The role of stromal cells in tumor growth and dissemination"
2008-2009	Vigoni-DAAD Italy-Germany. "The differential role of NHE1 in tumor cell motile and invasive behaviors"
2010	Progetto dell' Fondazione per la Ricerca sulla Fibrosi Cistica (FFC#8/2010) "Decreased apical expression of CFTR by Pseudomonas aeruginosa infection: role of NHERF1 phosphorylation".
2010-2015	Progetto BioBanca Oncologica Pugliese (BioPOP) "Network per l'utilizzo di tessuti oncologici controllati e caratterizzati per lo sviluppo di nuovi approcci diagnostici, farmacologici e biomedicali."
2011-2012	Progetto dell' Fondazione per la Ricerca sulla Fibrosi Cistica (FFC#3/2011) "Role of spatial cAMP/PKA compartmentalization and activity in regulating CFTR function".
2011-2012	Progetto PRIN "Reciprical cross-talk between integrins and the NHE1 (Na+/H+ exchanger) during cancer cell invasion: molecular and functional characterization and identification of inhibition strategies"
2012-2014	Finanziamento dell' Associazione Italiana per la Ricerca contro il Cancro (AIRC): "NHE1 and integrin cross-talk in invadopodia: molecular & functional characterization & therapeutic strategies"
2011-2015	Progetto SEVENTH FRAMEWORK; FP7-PEOPLE-2011-ITN; project number 289648; "IonTraC- Ion Transport Proteins in Control of Cancer Cell Behaviour"

Editorial positions
Invited Editor of a Special Issue of "Seminars in Cancer Biology" 2017 "**The new pH-centric paradigm in basic and clinical oncology research**."

Associazione a Società scientifiche

American Society of Physiology
American Society of Cell Biology
American Association for the Advancement of Science
American Association of Cancer Research
European Society for Cell Proliferation

Reviewer International Journals:
Nature
Nature Reviews Cancer

Nature Medicine
BMC Genomics
Cancer Research
Journal of Biological Chemistry
Journal of Cellular Physiology
European Journal of Physiology
EMBO Reports
EMBO Journal
Molecular Carcinogenesis
Neoplasia
Oncotarget
PLosOne
PLoS Genetics
Genes to Cells
Cancer Letters
Scientific Reports

Reviewer Research proposals:
Swiss National Science Foundation
Canadian Research Foundation
National Institutes of Health, USA
Wellcome Trust, GB
French National CNRS

Pubblicazioni
96 pubblicazioni su riviste internazionali
Ha rapporti di collaborazione con laboratori statunitensi ed europei
Pubblicazioni dal 2000

1) Harguindey S, Stanciu D, Devesa, J, Alfarouk K, Cardone RA, Devesa P, Orozco JDP, Rauch C, Orive G, Anitua E, Roger S, **Reshkin** SJ. 2017. Cellular acidification as a new approach to cancer treatment and the understanding and therapeutics of neurodegenerative diseases. Semin Cancer Biol. 43: 157-179, S1044-http://dx.doi.org/10.1016/j.semcancer.2017.02.003 (part of a Special Issue of Seminars in Cancer Biology "The new pH-centric paradigm in basic and clinical oncology research.")
2) Ali I, Alfarouk KO, **Reshkin** SJ, Ibrahim, ME. 2017. Doxycycline as potential anti-cancer agent. Anticancer Agents Med Chem. 2017 Feb 13. doi: 10.2174/1871520617666170213111951.

3) Harguindey S, Reshkin SJ. 2017. "The new pH-centric anticancer paradigm in Oncology and Medicine"; SCB, 2017. Semin Cancer Biol. 43: 1-4. pii: S1044-579X(17)30027-5. doi: 10.1016/j.semcancer.2017.02.008.

4) Zeeberg K, Cardone RA, Greco MR, Saccomano M, Nøhr-Nielsen A, Alves F, Pedersen SF, **Reshkin** SJ. 2016. Assessment of different 3D culture systems to study tumor phenotype and chemosensitivity in pancreatic ductal adenocarcinoma (PDAC). Int. J. Oncol. 49(1):243-252.

5) Kong SC, Nøhr-Nielsen A, Zeeberg K, **Reshkin** SJ, Hoffmann E, Novak I, Pedersen SF. 2016. Monocarboxylate transporters MCT1 and MCT4 regulate migration and invasion of Pancreatic Ductal Adenocarcinoma Cells. Pancreas 45:1036-1047

6) Atlante A, Favia M, Bobba A, Lorenzo Guerra L, Casavola V, **Reshkin** SJ. 2016. Characterization of Mitochondrial Function in Cells with Impaired Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Function. Journal of Bioenergetics and Biomembranes 48: 197-210.

7) Grossi G, Grimaldi A, Cardone RA, Monné M, **Reshkin** SJ, Girardello R, Greco MR, Coviello E, Laurino S and Falabella P. 2016. Extracellular matrix degradation via Enolase/Plasminogen interaction: Evidence for a Mechanism Conserved in Metazoa. Biology of the Cell 108:161-178.

1) Cardone RA, Greco MR, Zeeberg KL, Zaccagnino A, Saccomano M, Bellizzi A, Bruns P, Menga M, Pilarsky C, Schwab A, Alves F, Kalthoff H, Casavola V, **Reshkin** SJ. 2015. A novel NHE1-centered signaling cassette drives EGFR-dependent pancreatic tumor metastasis and is a target for combination therapy. Neoplasia 17(2): 155-166.
DOI: 10.1016/j.neo.2014.12.003

2) Bellizzi A, Greco MR, Rubino R, Paradiso A, Forciniti S, Zeeberg K, Cardone RA, **Reshkin** SJ. 2015. The scaffolding protein NHERF1 sensitizes EGFR-dependent tumor growth, motility and invadopodia function to gefitinib treatment in breast cancer cells. Inter. J. Oncol. 46:1214-1224.

3) Guerra L, Favia M, Castellani S, Barbuti G, Montemurro P, Diana A, Santostasi T, Polizzi AM, Mariggiò MA, Reshkin SJ, Manca A, Casavola V, Conese M. 2015. Antibiotic therapy affects functional behaviour in cystic fibrosis blood mononuclear cells. Eur Respir J. 46(2): 558-561.

4) Alfarouk KO, Stock CM, Taylor S, Walsh M, Muddathir AK, Verduzco D, Bashir AH, Mohammed OY, Elhassan GO, Harguindey S, **Reshkin** SJ, Ibrahim ME, Rauch C. 2015 Resistance to cancer chemotherapy: failure in drug response from ADME to P-gp. Cancer Cell Int. 2015 Jul 15;15:71. doi: 10.1186/s12935-015-0221-1. eCollection 2015

5) **Reshkin** SJ, Cardone RA, Greco MR, Zeeberg K, Harguindey S. 2014. Na+-H+ Exchanger, pH Regulation and Cancer. Topics in Anti-Cancer Research. vol. 3, p. 384-417, London: Bentham e-books, ISBN: 978-1-60805-909-6, doi: 10.2174/978160805909911403001 3

6) Alfarouk KO, Verduzco D, Rauch C, Muddathir AK, Adil HH, Elhassan GO, Ibrahim ME, David Polo Orozco J, Cardone RA, Reshkin SJ, Harguindey S. 2014. Glycolysis, tumor metabolism, cancer growth and dissemination. A new pH-based etiopathogenic perspective and therapeutic approach to an old cancer question. Oncoscience 1(12):777-802.

7) Martino NA, Reshkin SJ, Ciani E and Dell'Aquila E. 2014. Calcium-sensing receptor-mediated osteogenic and early-stage neurogenic differentiation in umbilical cord matrix mesenchymal stem cells from a large animal model. Plos One Nov 7; 9(11):e111533. doi: 10.1371/journal.pone.0111533. eCollection 2014.

8) Greco MR, Antelmi E, Busco G, Guerra L, Rubino R, Casavola V, Reshkin SJ, Cardone RA. 2014. Protease activity at invadopodial focal digestive areas is dependent on NHE1-driven acidic pHe. Oncology Reports. 31:940-946

9) Reshkin SJ, Greco MR and Cardone RA. 2014. Role of pH_i, and proton transporters in oncogene-driven neoplastic transformation. Philosophical Transactions of the Royal Society B- Biological Sciences. Feb 3;369(1638):20130100. doi: 10.1098/rstb.2013.0100.

10) Rubino R, Bezzerri V, Favia M, Facchini M, Tebon M, Singh AK, Riederer B, Seidler U, Iannucci A, Bragonzi A, Cabrini G, Reshkin SJ, Tamanini A. 2014. Pseudomonas aeruginosa reduces the expression of CFTR via post-translational modification of NHERF1.
Pflugers Arch. 2014, 466(12):2269-2278

11) Favia M, Mancini MT, Bezzerri V, Guerra L, Laselva O, Abbattiscianni AC, Debellis L, Reshkin SJ, Gambari R, Cabrini G, Casavola V. 2014. Trimethylangelicin promotes the functional rescue of mutant F508del CFTR protein in cystic fibrosis airway cells. Am J Physiol Lung Cell Mol Physiol. 307(1):L48-61

12) Antelmi E, Cardone RA, Greco MR, Rubino R, Di Sole F, Martino NA, Casavola V, Carcangiu M, Moro L, Reshkin SJ. 2013. ß1 integrin binding phosphorylates ezrin at T567 to

activate a lipid raft signalsome driving invadopodia activity and invasion. PloS ONE 8(9): e75113. doi:10.1371/journal.pone.0075113

13) Harguindey S, Arranz JL, Polo Orozco JD, Rauch C, Fais S, Cardone RA, Reshkin SJ. 2013. Cariporide and other new and powerful NHE1 inhibitors as potentially selective anticancer drugs -- an integral molecular/biochemical/metabolic/clinical approach after one hundred years of cancer research. J Transl Med. 11(1):282.

14) Brisson L, Driffort V, Benoist L, Poet M, Counillon L, Antelmi E, Rubino R, Besson P, Labbal F, Chevalier S, Reshkin SJ, Gore J and Roger S. 2013. $Na_V1.5$ sodium channels allosterically regulate the NHE-1 exchanger and promote breast cancer cell invadopodial activity. J. Cell Sci. 126:4835-4842.

15) Reshkin SJ, Cardone RA, Harguindey S. 2013. Na+-H+ Exchanger, pH Regulation and Cancer. Recent Pat Anticancer Drug Discov. 8(1):85-99.

16) Daniel C, Bell C, Burton C, Harguindey S, Reshkin SJ, Rauch C. 2013. The role of proton dynamics in the development and maintenance of multidrug resistance in cancer. Biochim Biophys Acta. 1832(5): 606-617.

17) Muzzachi S, Blasi A, Ciani E, Favia M, Cardone RA, Marzulli D, Reshkin SJ, Merizzi G, Casavola V, Soleti A, Guerra L. 2013. MED1101: a new dialdehydic compound regulating P2×7 receptor cell surface expression in U937 cells. Biol Cell. 2013 May 29. doi: 10.1111/boc.201200088.

18) Mangia A, Saponaro C, Malfettone A, Bisceglie D, Bellizzi A, Asselti M, Popescu O, Reshkin SJ, Paradiso A, Simone G. 2012. Involvement of nuclear NHERF1 in colorectal cancer progression. Oncol Rep. 28(3):889-984.

19) Brisson L, Reshkin SJ, Goré and Roger S. 2012. pH regulators in invadosomal functioning: Proton delivery for matrix tasting. Eur. J. Cell Biol. 91(11-12):847-860.

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21) Monterisi S, Favia M, Guerra L, Cardone RA, Marzulli D, Reshkin SJ, Casavola V, Zaccolo M. 2012. CFTR regulation in human airway epithelial cells requires integrity of the actin cytoskeleton and compartmentalized cAMP and PKA activity. J Cell Sci. 125:1106-1117.

22) Accardi R, Rubino R, Scalise M, Gheit T, Shahzad N, Thomas M, Banks L, Indiveri C, Sylla BS, Cardone RA, Reshkin SJ, Tommasino M. 2011. E6 and E7 from human papillomavirus type 16 cooperate to target the PDZ protein Na/H exchange regulatory factor-1. J Virol. 85:8208-8216.

23) Bellizzi A, RA Cardone, A Mangia, F Schittulli, V Casavola, SJ **Reshkin** and A Paradiso. 2011. Na+/H+ exchanger regulatory factor 1 expression levels in blood and tissue predict breast tumour clinical behaviour. Histopathology 58(7):1086-95.

24) Martino NA, Lange Consiglio A, Cremonesi F, Valentini L, Caira M, Guaricci AC, Ambruosi B, **Reshkin** SJ, Dell'Aquila ME. 2011. Functional expression of the extracellular calcium sensing receptor (CaSR) in equine umbilical cord matrix size-sieved stem cells. PloS ONE Mar 17;6(3):e17714

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27) Favia M, Guerra L, Fanelli T, Cardone RA, Monterisi S, Carrabino S, Reshkin SJ, Conese M, Casavola V. 2010. Ezrin phosphorylation and activation of RhoA play a role in the NHERF1 overexpression-dependent rescue of F508del-CFTR in human airway CFBE41o- cells. Mol. Biol. Cell 21:73-86

28) Harguindey S, Arranz JL, Wahl ML, Orive G, Reshkin SJ. 2009. Proton transport inhibitors as potentially selective anticancer drugs. Anticancer Res. 29(6):2127-36.

29) Mangia A, Chiriatti A, Bellizzi A, Malfettone A, Stea B, Zito FA, **Reshkin** SJ, Simone G and Paradiso A. 2009. Biological role of NHERF1 protein expression in breast cancer. Histopathology 55:600-608

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31) Cardone RA, Busco G, Greco MR, Bellizzi A, Accardi R, Cafarelli A, Monterisi S, Carratù P, Casavola V, Paradiso A, Tommasino M, Reshkin SJ. 2008. HPV16 E7-dependent transformation activates NHE1 through a PKA-RhoA-induced inhibition of p38alpha. PLoS ONE. 3(10):e3529. doi:10.1371/journal.pone.0003529

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33) Bellizzi A, Mangia A, Chiratti A, Petroni S, Quaranta M, Schittulli F, Malfettone A, Cardone RA, Paradiso A, and **Reshkin** SJ. 2008. RhoA protein expression in primary breast cancers and matched lymphocytes is associated with progression of the disease. Int. J. Mol. Med. 22:25-31.

34) Cardone RA, Bellizzi A, Busco G, Weinman EJ, Dell'Aquila ME, Casavola V, Azzariti A, Mangia A, Paradiso A, and **Reshkin** SJ. 2007. The NHERF1 PDZ2 Domain Regulates PKA-RhoA-p38-mediated NHE1 Activation and Invasion in Breast Tumor Cells. Mol. Biol. Cell 18:1768-1780.

35) Harguindey S, **Reshkin** SJ, Orive G, Arranz JL, Anitua E. 2007. Growth and trophic factors and the pH, Na^+/H^+ exchanger in Alzheimer´s disease, other neurodegenerative diseases and cancer: New therapeutic possibilities and potential dangers. Current Alzheimer Res. 4:53-65.

36) Sebastian S, J Settleman, SJ, **Reshkin**, A Azzariti, A Bellizzi, A Paradiso. 2006. The complexity of targeting EGFR signalling in cancer: From expression to turnover. Biochim. Biophys. Acta. Reviews on Cancer 1766:120-139.

37) Favia M, T Fanelli, A Bagorda, F Di Sole, SJ **Reshkin**, PG Suh, L Guerra, V Casavola. 2006. NHE3 inhibits PKA-dependent functional expression of CFTR by NHERF2 PDZ interactions. Biochem. Biophys. Res. Commun. 347:452-459.

38) Guerra L, Fanelli T, Favia M, Riccardi SM, Busco G, Cardone RA, Carrabino S, Weinman EJ, **Reshkin** SJ, Conese M, Casavola V. 2005. NHERF1 over-expression modulates CFTR expression and activity in human airway 16HBE14o-cells and rescues deltaF508 CFTR functional expression in cystic fibrosis cells. J Biol Chem. 280:40925-40933.

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41) Cardone RA, A Bagorda, A Bellizzi, G Busco, L Guerra, A Paradiso, V Casavola, M Zaccollo and SJ **Reshkin**. 2005. PKA gating of a pseudopodial located RhoA/ROCK/p38/NHE1 signal module regulates invasion in breast cancer cell lines. Mol. Biol. Cell 16: 3117-3127.

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Consapevole delle sanzioni penali, nel caso di dichiarazioni non veritiere, di formazione o uso di atti falsi, richiamate dall'art. 76 del D.P.R. 445/2000, dichiaro che quanto sopra corrisponde a verità. Ai sensi del D. LGS. 196/03 dichiaro, altresì, di essere informato che i dati personali raccolti saranno trattati, anche con strumenti informatici, esclusivamente nell'ambito del procedimento per il quale la presente dichiarazione viene resa e che al riguardo competono al sottoscritto tutti i diritti previsti all'art. 13 della medesima legge.

Bari, 22.09.2017

Stephan Joel RESHKIN