

CURRICULUM VITAE

April 2010

Edmond Sabo MD

Current Position:

- Director of Gastrointestinal Pathology Service and Hematopathology Unit, Rambam Health Care Campus, Haifa, Israel.
- Research Advisor to the Molecular Pathology Core, Rhode Island Hospital, Providence Rhode Island, USA.

Previous Positions:

- Director of Surgical Pathology Unit, Carmel Medical Center, Haifa, Israel (2001-4).
- Head of the Image and Data Analysis (Quantitative Pathology) of the Molecular Pathology Core, Rhode Island Hospital and COBRE CCRD (2004-8).
- Research Associate in the Department of Pathology, Rhode Island Hospital, Providence, Rhode Island, USA (2004-8).

Contact Information:

Rambam Health Care Campus

Aalia St 6 , Bat-Galim, P.o.b 9602

Haifa 31096, Israel

Tel: +972-4-854-1682

Email addresses: E_Sabo@Rambam.health.gov.il

Academic Degrees:

MD, University: Medical School of Iasi (UMF), Romania – 1982-1988

Academic Appointments:

- 1) Visiting Professor, Pathology, Mount Sinai Medical Center, NYC, 1998-9
- 2) Assistant Professor of Pathology and Laboratory Medicine (Research) at Brown Medical School, Providence, Rhode Island – 2004 - Present
- 3) Senior Lecturer, Rappaport Faculty of Medicine, Technion, Haifa, Israel - 2008

Board examinations passed:

- Romanian Board examination for Medical Diploma (in General Medicine, MD)
- Israeli Board examination for Medical License
- Israeli Board examination in Anatomic Pathology.
- American Licensing Board Examinations – USMLE/ECFMG - Valid Certificate.

Teaching experience:

- 1) Lecturer at the Community Health Nurses School at:
 - Carmel Medical Center's School for Community Health Nurses 1995-7
 - Bnai-Zion Medical Center's School for Community Health Nurses 1997
 - Rappaport Faculty of Medicine and Technion (Institute of Technology)
- 2) Lecturer and coordinator of the Laboratory Medicine Course in Pathology, at the Technion, Faculty of Medicine, 2003-2004.
- 3) Teaching Basic Pathology for the Tuoro Program of American Medical Students at the Faculty of Medicine, Haifa, Israel
- 4) Teaching Image Analysis in Pathology, "Techniques in the Pathobiology" course (for PMLE Senior Biologists), Brown University, Rhode Island, 2005-2008.
- 5) Director of the Pathology Course 3rd year students at the Rappaport Faculty of Medicine, Technion, Haifa, Israel (2008).

Invited Reviewer for Peer reviewed journals

- 2003, The Journal of Toxicologic Pathology
- 2006, The Journal of Laboratory Investigation
- 2007, The Journal of Microscopy
- 2007, The Journal of Urology
- 2007, Archives of Pathology and Laboratory Medicine
- 2008, Diseases of the Esophagus
- 2008, Journal of Imaging Science & Technology.

Academic/Professional/other Honors/Awards:

- 1995 - May 15, The Hochfeld's Research Foundation Award
Bnai-Zion Medical Center, Haifa, (# 3/95) for the project:
The role of nuclear morphometry in predicting outcome of patients with renal cell carcinoma.
- 1995 - Elected Member of the New York Academy of Sciences
- 1997 - Elected member of "Who is Who in the World" in science.
- 2001 - Honorable Mention awarded by the MediaCybernetics 2001 International Image Contest committee (http://www.mediacy.com/apps/image_contest_2001.htm) for: "Morphometric Method for Evaluating the Nuclear Loss of Polarity in Urinary Bladder Cancer"
- 2002 - Honorable Mention awarded by the MediaCybernetics 2002 International Image Contest committee for: The role of shape symmetry breaking as a

predicting factor for tumor multifocality in urothelial carcinomas”.

Additional Training/Experience:

- 1993: Analytical and Quantitative Cytology: G. Brugal Grenoble, France and A. Malberger at the Dept. of Cytology, Rambam Medical Center Haifa
 1994-5: Computerized Histomorphometry, at the Sackler Medical School, Tel –Aviv University (1.1.94-1.1.95)
 1998-9: Automated methods in Pathology laboratories – The Kurzweil’s Voice Recognition Systems applied to Pathology – Beth Israel Medical Center, NYC
 2000: Cytopathology (Millenium course - A.Malberger, Prof. G.Leiman, M.Akerman, R.L.Katz and K.Lindholm), Faculty of Medicine, Technion, and Rambam medical center, Haifa.
 2000: Course in Cytopathology, Johns Hopkins Medical Center, Baltimore, Maryland

Professional/Scientific Society Memberships:

- The Israeli Medical Organization since August 12, 1990
 The New York Academy of Sciences, 1995-2004
 Planetary Society (1995-2006)
 Israeli Association of Pathologists (1990-2006)

Current funding support (as PI):

1. Legacy Heritage Clinical Research Award
 Project title: The clinical significance of computer assisted quantitative nuclear texture analysis in tumor pathology, a laboratory novel approach and a molecular correlative study.
2. The Lorry I. Lokey Interdisciplinary Center for Life Sciences and Engineering,

Previous Grant Support:

- 1) The common foundation for research projects (the Haifa Technological Institute, the Ministry of Health and the Hospitals Associations), for studying the role of nuclear morphometry and DNA ploidy in discriminating between well differentiated follicular carcinomas and adenomas of the thyroid gland.
- 2) Galil Center for Telemedicine and Medical Informatics, Faculty of Medicine and the Technion for the project: “Telepathology and virtual microscopy”
- 3) C. Rosenblatt Cancer Research Fund, for the project: Studying the role of 3D reconstruction of Cytopathological and Histopathological samples.
- 4) COBRE CCRD - NIH Pilot Project Award (COBRE Center for Research Development, Providence, Rhode Island, for the project: “Novel 2D and 3D Morphometric Indicators Applied to the Grading of Dysplasia in Barrett’s Esophagus”.

- 5) Full Research Project COBRE NIH Award for:
 “Morphometric and Genetic Signatures of Epithelial Dysplasia in Barrett’s
 Esophagus; A Correlative Study”.

Invited chapters in book:

Book Title: ”Image Analysis in Medical Microscopy and Pathology”
 Chapter 2: “Quantitative Image Analysis for the Classification of Epithelial Neoplasia”
 Publisher: Transworld Research Network;
 Managing Editor: Dr. S.G.Pandalai; 37/661(2)

Book Title: Sensitization of Cancer Cells for Chemo/immuno/Radio-therapy, 1st Edition.
 Chapter 10: The RKIP and STAT3 Axis in Cancer Chemotherapy: Opposites Attract
 Edited by: Benjamin Bonavida © Humana Press, Totowa, NJ

Patent pending:

- GPR30 Estrogen Receptor in Breast Cancer,
 International Application No.: PCT/US2007/003128
<http://www.wipo.int/pctdb/fr/ia.jsp?IA=US2007/003128&LANGUAGE=EN>
- Development of a new biological specimen harvesting and segregating device.
 Application No.: 61090230

Reviewer and Member of the Board Committee for Grant Applications:

- 2005 to 2007: Center for Biomedical Research Excellence Cancer Research
 Development (COBRE), Cancer Research Development at Rhode Island
 Hospital(CCRD)

Consultant for Biotech companies:

Polyheal (2001-2), Israel
 Mindguard (2001-3), Israel
 Galil Medical (2002), Israel
 V-Target (2003), Israel

List of Publications (Peer Reviewed Journals):

Basic Research:

1. H.Kerner, **E. Sabo**, M. Friedman, D. Beck, O. Samare, and C. Lichtig;
 An immunohistochemical study of estrogen and progesterone receptors in
 adenocarcinoma of the endometrium and in the adjacent mucosa;
 Int J Gynecol Cancer 1995; 5: 275-281.

2. O. Nativ, **E. Sabo**, G. Raviv, O. Medalia, B. Moskovitz, and B. Goldwasser;
The role of nuclear morphometry for predicting disease outcome in patients with localized renal cell carcinoma;
Cancer 1995; 76: 1440-1444;
3. O Nativ, O Medalia, Y Mor, I Shajrawi, **E Sabo**, and M Aronson,
Treatment of experimental mouse bladder tumor by LPS-induced epithelial cell shedding ; British Journal of Cancer (1996),74,603-5.
4. O Nativ, **E Sabo**, J Bejar, S Halachmi, B Moskovitz and I Miselevich;
A comparison between histological grade and nuclear morphometry for predicting the clinical outcome of localized renal cell carcinoma;
British Journal of Urology 1996, 78, 33-8
5. J. E Naschitz, **E. Sabo**, D. Yeshurun, A. Gilhar, I. Miselevich and J. Boss;
An experimental model of Fasciitis-Panniculitis - Induction of chronic fibrosing panniculitis in the rat by subcutaneous injection of lipase;
Isr J Med Sci 1996,32,1078-1085.
6. R. Bergman, **E. Sabo**, Ian Schafer ; Measurement of the maturation parameter using computer assisted interactive image analysis may be helpful in the differential diagnosis between compound Spitz nevus and malignant melanoma ;
The American Journal of Dermatopathology 18(6): 567 - 70, 1996
7. T.D. Golan, D. Sigal, **E. Sabo**, Z. Shemuel, D. Guedj, A. Weinberger;
The penetrating potential of autoantibodies into live cells in vitro coincides with the in vivo staining of epidermal nuclei; Lupus 6: 18 - 26, 1997
8. **E. Sabo**, I. Misselevitz, J. Bejar, M. Segenreich, M. Wald, B. Moskovitz O. Nativ,; The role of Vimentin expression for predicting the long term outcome of patients with localized renal cell carcinoma;
Br J Urol. 1997 Dec. 80(6). P 864-8.
9. O. Nativ, M. Aronson, O. Medalia, T. Moldavsky, **E. Sabo**, I. Ringel, V. Kravstov; Anti-Neoplastic Activity of Paclitaxel On Experimental Superficial Bladder Cancer – In vivo and In vitro studies.
Int. J. Cancer, 70 (3) 297-301;1997.
10. **E. Sabo**, I. Misselevich, J. Behar, O. Nativ and J. Boss;
Cellular dysplasia in acquired cystic renal disease, comparison of histomorphometrically gauged nuclear parameters in normal kidneys, renal cell carcinoma and acquired cystic kidneys;
Neoplasma 1997. 44(4). P 266-71.

11. O Nativ, B. Moskovitz, **E. Sabo**, A. Shalhav, J. Kaftori, Y. Barbara, D. Mordohovich, B. Goldwasser; Percutaneous ablation of malignant liver tumor in rabbits using low radio frequency energy; Harefuah. 1998 Jan 1. 134(1). P 22-5, 79.
12. O. Nativ, **E. Sabo**, G. Raviv, S. Halachmi, B. Moskovitz; The value of nuclear morphometry for differentiating localized from metastatic renal cell carcinoma; Eur Urol.33(2). P 186-9. 1998
13. Z. Borochowitz, **E. Sabo**, I. Misselevitch, and J. H. Boss; Autosomal-Recessive Omodysplasia: Prenatal Diagnosis and Histomorphometric Assessment of the Physal Plates of the Long Bones; American Journal of Medical Genetics 76:238-244 (1998);
14. O. Nativ, **E. Sabo**, A Reiss, M. Wald, S. Madjar, M. Stein and B. Moskovitz; The clinical significance of tumor angiogenesis in patients with localized renal cell carcinoma; Urology. 1998 May. 51(5). P 693-6
15. J. Bejar, **E.Sabo**, I. Misselevich, S. Eldar, J. Boss; Comparative Study of Computer-Assisted Image Analysis and Light-Microscopically Determined Estrogen Receptor Status of Breast Carcinomas; Arch Pathol Lab Med.1998.122(4)P346-352 (Also accepted for publication in the Year Book of Pathology, 998).
16. S. Eldar, **E. Sabo**, A Cohen, I. Misselevich, O. Cohen, J. Kelner, C Mor, J. Shvero, R. Feinmesser, J. Shibi, M. Shabtai, J.Bejar, J.H.Boss; Computer-Assisted image analysis of small cell lymphoma of the thyroid gland; Comparison of nuclear parameters of small lymphocytes in lymphomas and Hashimoto's thyroiditis; Computerized Medical Imaging and Graphics 22 (1998) 479-488.
17. R. Bergman, D. Faclieru, D. Sahar, E. Herz, L. Malev, H. Kerner, Y. Ben-Aryeh, **E. Sabo**, and R. Friedman-Birnbaum; Immunophenotyping and T-cell receptor (gene of Mycosis Fungoides; J. A. Acad. Dermatol. 1998
18. J. Bejar, **E.Sabo**, I. Misselevich, S. Eldar, J. Boss; Quantification of the Esterogen Receptors in Immunohistochemically Stained Sections of Carcinomas of the Breast; LabMedica International; Vol.16, No. 2, 3-4, 1999.
19. S. Eldar, **E. Sabo**, A. Cohen, I. Misselevich, J. Abrahamson, O. Cohen, J. Kelner, J.H. Boss; A comparative histomorphometric evaluation of follicular adenomas and well differentiated follicular carcinomas;

- Histopathology; 34, 453-461, 1999.
20. E.A. Vlodaysky, R.M.Ludatscher, **E.Sabo**, H. Kerner;
Evaluation of muscle capillary basement membrane in inflammatory Myopathy; A morphometric ultrastructural study;
Virchows Arch (1999) 435: 58-61.
 21. D. Levin, D. Norman, C.Zinman, L Rubinstein, **E.Sabo**, I. Misselevich, D. Reis, and J.H. Boss;
Treatment of experimental avascular necrosis of the femoral head with hyperbaric oxygen in rats: histological evaluation of the femoral heads during the early phase of the reparative process;
Experimental and Molecular Pathology, 67,99-108, 1999;
 22. M. Odeh, **E.Sabo**, A.Oliven and I.Srugo;
Role of tumor necrosis factor – alpha in the differential diagnosis of parapneumonic effusion; Int. J. Infect. Dis, 1999; 4:38-41.
 23. D.G. Mendes, M. Said, S. Head, **E. Sabo**, R. Nachman, JH.Boss
Biomechanical and surgical solutions for patellar implant in total knee arthroplasty. Orthopedics. 1999 Oct;22(10):949-51.
 24. JG. Mogilner, S. Eldar, **E. Sabo**, M. Hassoun, D. Attias, A. Brodski, M. Ben Harush, A.Kuten, Z. Steiner, I.Misselevich, J. Bejar, O.Ben Yizhak, V. Kerner, R. Laor, JH. Boss. Computer-assisted image analysis can aid the prognostication of advanced-stage neuroblastomas. J Cancer Res Clin Oncol. 2000 May;126(5):285-90.
 25. B.Y, Wang, T. Kalir, **E. Sabo**, D. Sherman, C. Cohen, D. Burstein;
Immunohistochemical staining of GLUT1 in benign, hyperplastic, and malignant endometrial epithelia; Cancer. 2000 Jun 15;88(12):2774-81.
 26. M. Odeh, **E. Sabo**, I. Srugo, A. Oliven.
Tumour necrosis factor alpha in the diagnostic assessment of pleural effusion. QJM Int J Med. 93(12):819-824,2000.
 27. E. Toubi, A. Adir-Shani, A. Kessel, Z.Shmuel, **E. Sabo**, H. Hacham .
Immune aberrations in B and T lymphocytes derived from chronic urticaria patients. J Clin Immunol. 2000 Sep;20(5):371-8.
 28. **E. Sabo** E, Misselevich I, Bejar J, Mendes DG, Boss JH.
Morphologic and morphometric study of patellar resurfacing with woven carbon filamentous pads. Arch Orthop Trauma Surg. 2000;120(9):502-7.
 29. DG. Mendes, M. Said, S. Head, **E. Sabo**, R. Nachman, JH.Boss .
The biomechanical and surgical solutions for patella implant in total

- knee arthroplasty. *Crit Rev Biomed Eng.* 2000;28(1-2):23-32.
30. GM. Groisman, **E.Sabo**, A. Meir, S.Polak-Charcon.
Enterocyte apoptosis and proliferation are increased in microvillous inclusion disease (familial microvillous atrophy)
Hum Pathol. 31(11):1404-10, 2000
 31. E. Zuckerman, T. Zuckerman, D. Sahar, S. Streichman, **E. Sabo**, D. Attias, D. Yeshurun, and J. Rowe.
The effect of antiviral treatment on t(14;18) translocation and immunoglobulin gene rearrangements in patients with chronic hepatitis C virus infection.
Blood. 2001 Mar 15;97(6):1555-9.
 32. E. Zuckerman, T. Zuckerman, D. Sahar, S. Streichman, , D. Attias, **E. Sabo** D. Yeshurun, and J. Rowe.
Bcl2 and immunoglobulin gene rearrangements in patients with HCV infection.
British J. Hematol. 112(2):364-9,2001.
 33. **E. Sabo**, DG. Mendes, S. Head, R. Nachman, I. Misselevich, JH. Boss
Histomorphometric analysis of the normal adult patella.
Acta Orthop Belg. 2001 Feb;67(1):42-8.
 34. R. Bergman, L. Malkin, **E. Sabo**, H. Kerner.
MIB-1 monoclonal antibody to determine proliferative activity of Ki-67 antigen as an adjunct to the histopathologic differential diagnosis of Spitz nevi.
J Am Acad Dermatol. 2001 Mar;44(3):500-4.
 35. **E. Sabo**, A. Boltenko, Y. Sova, A. Stein, S. Kleinhaus and M.B. Resnick.
Microscopic Analysis and Significance of Vascular Architectural Complexity in Renal Cell Carcinoma. *Clin Cancer Res.* 7(3):533-7, 2001.
 36. **E. Sabo**, M. Resnick.
Microscopic analysis of vascular architectural complexity in RCC.
Reply letter to Grizzi et al. *Clin Cancer Res.* 2001.
 37. T. Cohen, Z. Gluzman-Poltorak, A. Brodzky, V Metyal, **E. Sabo**, I. Misselevich, M. Hassoun, JH. Boss, M. Resnick, D. Shnevyas, S. Eldar, G. Neufeld.
Neuroendocrine Cells along the Digestive Tract Express Neuropilin-2.
Biochem Biophys Res Commun. 8;284(2):395-403, 2001.
 38. D. Fuchs, P. Shenzer, **E. Sabo**, D.G. Mendes, D. Lewinson.
Wear debris mediated osteolysis in a rat femoral head implant model: when does this process begin? *Bone.* Vol 28, 5, Supplement, May, 2001.
 39. **E. Sabo**, B. Peskin, I. Misselevich, C. Zinman, D. Levin, DN. Reis, JH. Boss.

Computer assisted image analysis of the rat post-osteonecrotic remodeled femoral heads. *Exp Mol Pathol.* 2001 Dec;71(3):256-64.

40. Toubi E, Kessel A, Goldstein L, Slobodin G, **Sabo E**, Shmuel Z, Zuckerman E. Enhanced peripheral T-cell apoptosis in chronic hepatitis C virus infection: association with liver disease severity. *J Hepatol.* 2001 Dec;35(6):774-80.
41. Yakirevich E, Yanai O, Sova Y, **Sabo E**, Stein A, Hiss J, Resnick MB. Cytotoxic phenotype of intra-epithelial lymphocytes in normal and Cryptorchid human testicular excurrent ducts. *Hum Reprod.* 2002 Feb;17(2):275-83.
41. Zuckerman E, Slobodin G, Kessel A, **Sabo E**, Yeshurun D, Halas K, Toubi E. Peripheral B-cell CD5 expansion and CD81 overexpression and their association with disease severity and autoimmune markers in chronic hepatitis C virus infection. *Clin Exp Immunol.* 2002 May;128(2):353-8.
42. Toubi E, Kessel A, Grushko G, **Sabo E**, Rozenbaum M, Rosner I. The association of serum matrix metalloproteinases and their tissue inhibitor levels with scleroderma disease severity. *Clin Exp Rheumatol.* 2002 Mar-Apr;20(2):221-4.
43. Norman D, Miller Y, **Sabo E**, Misselevich I, Peskin B, Zinman C, Levin D, Reis DN, Boss JH. The effects of enoxaparin on the reparative processes in experimental osteonecrosis of the femoral head of the rat. *APMIS.* 2002 Mar;110(3):221-8.
43. Naveh E, Werman MJ, **Sabo E**, Neeman I. Defatted avocado pulp reduces body weight and total hepatic fat but increases plasma cholesterol in male rats fed diets with cholesterol. *J Nutr.* 2002 Jul;132(7):2015-8.
44. Resnick MB, **Sabo E**, Kondratev S, Kerner H, Spagnoli GC, Yakirevich E. Cancer-testis antigen expression in uterine malignancies with an emphasis on carcinosarcomas and papillary serous carcinomas. *Int J Cancer.* 2002 Sep 10;101(2):190-5.
45. Sukhotnik I, Khateeb K, Krausz MM, **Sabo E**, Siplovich L, Coran AG, Shiloni E. Sandostatin impairs postresection intestinal adaptation in a rat model of short bowel syndrome. *Dig Dis Sci.* 2002 Sep;47(9):2095-102.
46. Baruch Y, Neubauer K, Shenkar L, **Sabo E**, Ritzel A, Wilfling T, Ramadori G. Von Willebrand factor in plasma and in liver tissue after partial hepatectomy in the rat. *J Hepatol.* 2002 Oct;37(4):471.
47. Groisman GM, Schafer I, Amar M, **Sabo E**. Expression of the histiocytic marker PG-M1 in granuloma annulare and rheumatoid

- nodules of the skin. *J Cutan Pathol*. 2002 Nov;29(10):590-5.
48. Ben-Izhak O, Bar-Chana M, Sussman L, Dobiner V, Sandbank J, Cagnano M, Cohen H, **Sabo E**.
Ki67 antigen and PCNA proliferation markers predict survival in anorectal malignant melanoma. *Histopathology*. 2002 Dec;41(6):519-25.
 49. Sukhotnik I, Yakirevich E, Coran AG, Siplovich L, Krausz M, **Sabo E**, Kramer A, Shiloni E.
Lipopolysaccharide endotoxemia reduces cell proliferation and decreases enterocyte apoptosis during intestinal adaptation in a rat model of short-bowel syndrome. *Pediatr Surg Int*. 2002 Oct;18(7):615-9.
 50. Odeh M, **Sabo E**, Srugo I, Oliven A.
Correlation Between Polymorphonuclear Leukocyte Counts and Levels of Tumor Necrosis Factor- α in Pleural Fluid of Patients with Parapneumonic Effusion. *Lung*. 2002;180(5):265-71.
 51. Sukhotnik I, Yakirevich E, Coran AG, Siplovich L, Krausz M, Hirsh M, **Sabo E**, Shiloni E.
Effect of transforming growth factor- α on intestinal adaptation in a rat model of short bowel syndrome. *J Surg Res*. 2002 Dec;108(2):235-42.
 52. Sukhotnik I, Krausz MM, **Sabo E**, Resnick M, Hirsh M, Mannheim D, Shiloni E.
Endotoxemia inhibits intestinal adaptation in a rat model of short bowel syndrome. *Shock*. 2003 Jan;19(1):66-70.
 53. **Sabo E**, Gibrat M, Sova Y, Stein A, Resnick MB.
Validation of the novel indices of nuclear pleomorphism, polarity and spatial distribution in the grading of urothelial carcinoma. *Anal Quant Cytol Histol*. 2003 Feb;25(1):53-62.
 54. Akiri G, **Sabo E**, Dafni H, Vadasz Z, Kartvelishvily Y, Gan N, Kessler O, Cohen T, Resnick M, Neeman M, Neufeld G.
Lysyl Oxidase-related Protein-1 Promotes Tumor Fibrosis and Tumor Progression in Vivo. *Cancer Res*. 2003 Apr 1;63(7):1657-66.
 55. Har-Shai Y, Amar M, **Sabo E**.
Intralesional cryotherapy for enhancing the involution of hypertrophic scars and keloids. *Plast Reconstr Surg*. 2003 May 1;111(6):1841-52.
 56. Waisman D, Brod V, Wolff R, **Sabo E**, Chernin M, Weintraub Z, Rotschild A, Bitterman H.
Effects of hyperoxia on local and remote microcirculatory inflammatory response

following splanchnic ischemia and reperfusion.
Am J Physiol Heart Circ Physiol. 2003 Apr

57. Toubi E, Kessel A, Rosner I, Rozenbaum M, Lorber M, Paran D, **Sabo E**, Golan TD.
Quinacrine added to ongoing therapeutic regimens attenuates anticardiolipin antibody production in SLE. *Lupus*. 2003;12(4):297-301.
58. Wu M, Wang B, Gil J, **Sabo E**, Miller L, Gan L, Burstein DE.
p63 and TTF-1 immunostaining. A useful marker panel for distinguishing small cell carcinoma of lung from poorly differentiated squamous cell carcinoma of lung. *Am J Clin Pathol*. 2003 May;119(5):696-702.
59. Ben-Izhak O, Lahav-Baratz S, Meretyk S, Ben-Eliezer S, **Sabo E**, Dirnfeld M, Cohen S, Ciechanover A.
Inverse Relationship Between Skp2 Ubiquitin Ligase and the Cyclin Dependent Kinase Inhibitor p27Kip1 in Prostate Cancer. *J Urol*. 2003 Jul;170(1):241-245.
(Note: this project had been coordinated by Dr. Ciechanover Aaron who was the 2004 Nobel Laureate in Chemistry)
60. Sukhotnik I, Lerner A, **Sabo E**, Krausz MM, Siplovich L, Coran AG, Mogilner J, Shiloni E. Effects of enteral arginine supplementation on the structural Intestinal adaptation in a rat model of short bowel syndrome. *Dig Dis Sci*. 2003 Jul;48(7):1346-51.
61. Sukhotnik I, Shiloni E, Krausz MM, Yakirevich E, **Sabo E**, Mogilner J, Coran AG, Harmon CM.
Low-fat diet impairs postresection intestinal adaptation in a rat model of short bowel syndrome. *J Pediatr Surg*. 2003 Aug;38(8):1182-7.
62. Zuckerman E, Kessel A, Slobodin G, **Sabo E**, Yeshurun D, Toubi E.
Antiviral Treatment Down-Regulates Peripheral B-Cell CD81 Expression and CD5 Expansion in Chronic Hepatitis C Virus Infection. *J Virol*. 2003 Oct;77(19):10432-6.
63. Yakirevich E., **Sabo E**, Lavie O., Spagnoli GC and Resnick B Murray
Cancer testis antigen expression in ovarian serous neoplasms.
Clin Cancer Res. , August 2003, recently accepted (In Press.).
64. Groisman GM, Meir A, **Sabo E**.
The value of cdx2 immunostaining in differentiating primary ovarian carcinomas from colonic carcinomas metastatic to the ovaries.
Int J Gynecol Pathol. 2004 Jan;23(1):52-7.

65. Ariel Roguin A, Nitecki S., Rubinstein I., Abassi A.Z., **Sabo E**, Levy S.N., Nevo E., Avivi A., Lache O., Frank M., Hoffman A. and Levy A.P.
Vascular endothelial growth factor (VEGF) fails to improve blood flow and promote collateralization in a diabetes model of hindlimb ischemia
Cardiovascular Diabetology 2003, 2:18
66. Yakirevich E, **Sabo E**, Lavie O, Mazareb S, Spagnoli GC, Resnick MB.
Expression of the MAGE-A4 and NY-ESO-1 Cancer-Testis Antigens in Serous Ovarian Neoplasms. Clin Cancer Res. 2003, 15;9(17):6453-6460.
67. Kessler O, Shraga-Heled N, Lange T, Gutmann-Raviv N, **Sabo E**, Baruch L, Machluf M, Neufeld G. Semaphorin-3F Is an Inhibitor of Tumor Angiogenesis. Cancer Res. 2004 Feb 1;64(3):1008-15.
68. Kessel A, Rosner I, Rozenbaum M, Zisman D, Sagiv A, Shmuel Z, **Sabo E**, Toubi E. Increased CD8+ T Cell Apoptosis in Scleroderma Is Associated with Low Levels of NF-kappaB. J Clin Immunol. 2004 Jan;24(1):30-6.
69. Resnick MB, Routhier J, Konkin T, **Sabo E**, Pricolo VE.
Epidermal Growth Factor Receptor, c-MET, beta-Catenin, and p53 Expression as Prognostic Indicators in Stage II Colon Cancer: A Tissue Microarray Study. Clin Cancer Res. 2004 May 1;10(9):3069-75.
70. Lahav-Baratz S, Ben-Izhak O, **Sabo E**, Ben-Eliezer S, Lavie O, Ishai D, Ciechanover A, Dirnfeld M.
Decreased level of the cell cycle regulator p27 and increased level of its ubiquitin ligase Skp2 in endometrial carcinoma but not in normal secretory or in hyperstimulated endometrium. Mol Hum Reprod. 2004 Jun 25
71. Kondratiev S, **Sabo E**, Yakirevich E, Lavie O, Resnick MB.
Intratumoral CD8+ T Lymphocytes as a Prognostic Factor of Survival in Endometrial Carcinoma. Clin Cancer Res. 2004 Jul 1;10(13):4450-6.
72. Bornstein J, Goldschmid N, **Sabo E**.
Hyperinnervation and Mast Cell Activation May Be Used as Histopathologic Diagnostic Criteria for Vulvar Vestibulitis.
Gynecol Obstet Invest. 9;58(3):171-178. 2004.
73. Assaf J., **Sabo E.**, Eldar S., Boss.J.H.
Fractal Dynamics in the Differential Diagnosis of Thyroideal Follicular Neoplasms Pathology - Research and Practice, Pathol Res Pract. 2004;200(6):447-58.
74. Toubi E, Kessel A, Peri R, Shmuel Z, Bamberger E, **Sabo E**, Zuckerman E.
Enhanced Apoptosis of Peripheral CD5-Negative B Lymphocytes from Chronically Hepatitis C Virus-Infected Patients: Reversal after Antiviral Treatment.

- J Virol. 2004 Oct;78(20):11379-84.
75. Resnick MB, Konkin T, Routhier J, **Sabo E**, Pricolo VE.
Claudin-1 is a strong prognostic indicator in stage II colonic cancer: a tissue microarray study. *Mod Pathol*. 2004 Oct 08
 76. Nativ O, Dalal E, Laufer M, **Sabo E**, Aronson M.
Antineoplastic effect of gemcitabine in an animal model of superficial bladder cancer. *Urology*. 2004 Oct;64(4):845-8.
 77. Gottfried Y, Voldavsky E, Yodko L, **Sabo E**, Ben-Itzhak O, Larisch S.
Expression of the pro-apoptotic protein ARTS in astrocytic tumors. *Cancer*. 2004 Oct 29
 78. Cohen-Kerem R, Madah W, **Sabo E**, Rahat MA, Greenberg E, Elmalah I.
Cytokeratin-17 as a potential marker for squamous cell carcinoma of the larynx. *Ann Otol Rhinol Laryngol*. 113(10):821-7. 2004.
 79. Bar-Sela G, Arush MW, **Sabo E**, Kuten A, Minkov I, Ben-Izhak O.
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A tissue microarray study. The United States and Canadian Academy of Pathology (USCAP) Conference, February, Atlanta, 2006

68. E Yakirevich, DR Gnepp, L Alos, A Cardesa, G Ellis, **E Sabo**
Primary Mucin Producing Tumors of the Salivary Glands: A Clinicopathologic and Morphometric Study; Accepted for presentation at the United States and Canadian Academy of Pathology (USCAP) Conference, February, Atlanta, 2006.
69. Nurkin, S., Urban C., Mangini E., Mariano N., Grenner L., Maurer J., **Sabo E.**, Rahal J. (May 2004). "Is the Clinicians' Necktie a Potential Fomite for Hospital Acquired Infections?". the 104th General Meeting of the American Society for Microbiology May 23– May 27 2004, New Orleans, Louisiana, p. 204.
70. J Beheshti, E Mark, **E Sabo**, P Janne, L Sequist, V Joshi, D Jackman, AJ Iafrate, L Wang, M; Meyerson, N Lindeman. Multimarker Immunohistochemistry of Non- Small Cell Lung Carcinomas: Correlation with EGFR Mutation and Response to Treatment. The United States and Canadian Academy of Pathology (USCAP), 96th Annual Meeting, San Diego, CA, March 24-30, 2007
71. WO Greaves, RA DeLellis, MB Resnick, **E Sabo**, L Noble, R Tavares, LJ Wang; Description of a Novel Subtype of GCDFP-15 Positive TTF-1 Negative Pulmonary Adenocarcinomas. The United States and Canadian Academy of Pathology (USCAP), 96th Annual Meeting, San Diego, CA, March 24-30, 2007
72. B Winn, PA Meitner, R Tavares, **E Sabo**, MB Resnick
Expression Profiling of Colonic Epithelium by Laser Capture. Microdissection Proposes a Role for Rantes (CCL-5) in the Pathophysiology of Lymphocytic Colitis. The United States and Canadian Academy of Pathology (USCAP), 96th Annual Meeting, San Diego, CA, March 24-30, 2007
73. J Beheshti, E Mark, **E Sabo**, P Janne, L Sequist, D Jackman, V Joshi, A Iafrate, L Wang, M Meyerson, N Lindeman; Correlation of Papillary and Bronchioloalveolar Patterns in Lung Adenocarcinoma with EGFR Mutation and Response to Tyrosine Kinase Inhibitors. The United States and Canadian Academy of Pathology (USCAP), 96th Annual Meeting, San Diego, CA, March 24-30, 2007
74. E Yakirevich, DJ Morris, R Tavares, M Lechpammer, LJ Wang, **E Sabo**, RA DeLellis, MB Resnick Expression of Mineralocorticoid Receptor and 11 β -Hydroxysteroid Dehydrogenase Type II in Renal Cell Neoplasms: A Tissue Microarray Study. The United States and Canadian Academy of Pathology (USCAP), 96th Annual Meeting, San Diego, CA, March 24-30, 2007
75. M Lechpammer, W Greaves, **E Sabo**, E Yakirevich, R Tavares, L Noble, MB Resnick, LJ Wang; Expression of Claudins 1, 4 and 7 in Human Renal Tumors. The United States and Canadian Academy of Pathology (USCAP), 96th Annual Meeting, San Diego, CA, March 24-30, 2007

76. S Kondratiev, DR Gnepp, E Yakirevich, **E Sabo**, DJ Annino, E Rebeiz, NV Laver; Silver-Stained Nucleoli Diameter Measured by Computer Morphometry as a New Prognostic Factor in Sinonasal and Oral Malignant Melanomas. The United States and Canadian Academy of Pathology (USCAP), 96th Annual Meeting, San Diego, CA, March 24-30, 2007
77. Sabo E, **Filardo EJ**, Graeber CT, Quinn JA, Giri D, DeLellis R, Steinhoff M and Resnick B.M. Association of GPR30, a seven-membrane spanning estrogen receptor with advanced (metastatic) breast carcinoma and its correlation with other classical prognostic factors. International Academy of Pathology, Montreal, CA September 16-21, 2006
78. **E.Sabo**, S.F.Moss, P.Meitner, R.Tavares, M.B.Resnick
Microarray Gene Expression, Analysis of High Grade Dysplasia in Barrett's Esophagus. 15th Annual Hospital Research Celebration, Rhode Island Hospital and Brown University, November 13, 2007, Providence, Rhode Island.
79. BJ Winn, J Gao, **E Sabo**, R Tavares, L Noble and MB Resnick
Differentiating the Undifferentiated: Immunohistochemical Profile of Medullary Carcinoma of the Colon with an Emphasis on Intestinal Differentiation-Platform Presentation. The United States and Canadian Academy of Pathology's 97th Annual Meeting, March 1-7, 2008 in Denver, CO
80. SE Easley, **E Sabo**, B Bhattacharya, S Mangray and D Giri
A Novel Discriminant Score Based on MIB-1 and HER-2 Immunohistochemistry as an Alternative to Oncotype-DX Recurrence Score in Breast Carcinoma. The United States and Canadian Academy of Pathology's 97th Annual Meeting, March 1-7, 2008 in Denver, CO
81. S Mangray, KC Kurek, **E Sabo** and RA DeLellis.
Immunohistochemical Expression of Parafibromin is of Limited Value in Distinguishing Parathyroid Carcinoma from Adenoma. The United States and Canadian Academy of Pathology's 97th Annual Meeting, March 1-7, 2008 in Denver, CO.
82. J Beheshti, **E Sabo**, PA Janne, V Joshi, LJ Wang and N.I. Lindeman.
TTF-1 Positivity is a Sensitive Predictor of *EGFR* Mutation and Treatment Response in Pulmonary Adenocarcinomas, by Pathologist Interpretation and by Image Analysis. The United States and Canadian Academy of Pathology's 97th Annual Meeting, March 1-7, 2008 in Denver, CO.
83. M. Lechpammer, L.J.Wang. M.B.Resnick, **E. Sabo**. E. Yakirevich, G. Wesley, S.Katherine. Claudins 7 and 8 Expression Separate Chromophobe Renal Cell Carcinoma from Oncocytoma. The United States and Canadian Academy of

Pathology's 97th Annual Meeting, March 1-7, 2008 in Denver, CO.

84. **E Sabo**, P. Meitner, SF Moss, J. Gao, R Tavares, C.L. Corless, G.Y. Lauwers and M.B. Resnick. Microarray Gene Expression Analysis of High Grade Dysplasia in Barrett Esophagus The United States and Canadian Academy of Pathology's 97th Annual Meeting, March 1-7, 2008 in Denver, CO.
85. L. Martin, **E.Sabo**, M.B.Resnick.
Prognostic Value of Aspartyl (asparaginyI)^β-Hydroxylase Gene Expression in Non-small Cell Lung Carcinomas: Correlation with Survival. The United States and Canadian Academy of Pathology's 97th Annual Meeting, March 1-7, 2008 in Denver, CO.
86. **E. Sabo**, S.F.Moss,M.Patricia, T.Rosemarie, G.John, C.Christopher, L. Y. Gregory, M.B.Resnick. Novel Potential Markers of High Grade Dysplasia in Barrett's Esophagus Identified by cDNA Microarray Analysis of Laser Capture The United States and Canadian Academy of Pathology's 97th Annual Meeting, March 1-7, 2008 in Denver, CO.
87. **E. Sabo**, S.F.Moss,M.Patricia, T.Rosemarie, G.John, C.Christopher, L. Y. Gregory, M.B.Resnick. Novel Potential Markers of High Grade Dysplasia in Barrett's Esophagus Identified by cDNA Microarray Analysis of Laser Capture Microdissected Archival Tissue American Gastroenterological Assoc. 5/17-22/2008, San Diego, CA.
89. **E. Sabo**, N.Okpara, H.G. Rich, B.Bhattacharya, M.B. Resnick.
Computer-aided texture analysis of the colonic polyp surface visualized by endoscopy as a novel method for distinguishing Sessile Serrated Adenomas (SSA) from other histologic types.Digestive Disease Week-2008, San Diego.
90. Okpara N., Rich H., **Sabo E.**, Bhattachary B.
Don't Judge a Polyp By Its Appearance: Clinical and Endoscopic Features of a Large Series of Sessile Serrated Adenomas.
Gastroenterology, Volume 134, Issue 4, Pages A-60-A-60
90. Vlodaysky E., **Sabo E.**, Soustiel J.
Comparative Immunohistochemical and Quantitative Morphological Study of Convexital and Basal Meningiomas.
The 22nd European Congress of Pathology Florence, Italy - 4-9 September 2009.

Invited talks:

1. Chaos in medicine and biology.
Israel Society for Histochemistry and Cytochemistry – the 22 Congress meeting,

Soroka Medical Center of the Negev, 12.06.03. Beer-Sheva.

2. Chaos in medicine and biology. International invitation
Department of Pathology, Diagnostic Center,
Rigshospitalet, Copenhagen, Denmark, September 25th, 2003.
3. Chaos in medicine and biology – a Pathologist view
Lecture at the Rambam Medical Staff meeting, March 6, 2003,
Rambam Medical Center, Haifa, Israel
4. Chaos in medicine and biology, at **COBI**
The Center of Knowledge for Bioinformatics Infrastructure,
The Israeli National Bioinformatics Calendar
Technion (Israeli Institute of Technology. Butler Auditorium, Technion - IIT
Thursday March 25, 2004.
5. Image and Pattern Analysis in Pathology
**COBRE CCRD (Center for Cancer Research Developments),
Seminar Series 2004**, Rhode Island Hospital, March 2004
6. Chaos in medicine and biology;
April 27, 2004, Lecture at the Department of Pathology,
Rhode Island Hospital
7. Image and Pattern Analysis in Pathology -
Orthopaedic Research Conference, January 19, 2004,
Department of Orthopaedics, Rhode Island Hospital
8. Novel indices of special distribution and structural complexity applied
to Barrett's esophagus for the grading of epithelial dysplasia.
COBRE CCRD (Center for Cancer Research Developments)
Seminar Series 2005, May 19, 2005, Galletti Building, 55 Claverick Str.
Providence, Rhode Island.
9. Digital Quantitative Pathology: Methods and Applications
Legacy Heritage Seminar at the Bruce Rappaport Faculty of Medicine,
February 2010.
This lecture has been posted in the official website of the Academical Channel of
the Haifa University: <http://actv.haifa.ac.il/programs/Item.aspx?it=1757>

Research Coordinator or Assistant coordinator in basic research projects as part of the scientific training of the medical students and residents:

Medical Students for MD degree:

1. 1996 Zigenrich Michal; Faculty of Medicine, Technion, Haifa :
The prognostic significance of Vimentin expression in T1-T2 renal cell carcinoma
2. 1997 Scwartz George; Faculty of Medicine, Technion, Haifa :
Morphometric characterization of localized and metastatic renal cell carcinoma.
3. 1997 Ari Reis; Faculty of Medicine, Technion, Haifa :
The clinical significance of microvessel density in patients with localized renal cell carcinoma.
4. 2000 Albina Boltenko: Faculty of Medicine, Technion, Haifa :
Microscopic Analysis and Significance of Vascular Architectural Complexity in Renal Cell Carcinoma.
5. 2002 Myriam Gibrat: Faculty of Medicine, Technion, Haifa.
Validation of Novel Indices of Nuclear Pleomorphism, Polarity and Spatial Distribution, in the Grading of Urothelial Carcinoma

Physicians for Basic Science projects:

1. 1997 Kerner Ram: Faculty of Medicine, Sackler University, Tel-Aviv:
Grading of ductal carcinoma in situ and invasive ductal carcinoma by computerized morphonuclear image analysis in relation to histopathological methods.
2. 1999 Yaron Asaf: resident in the Department of surgery, Bnai Zion Medical Center, Haifa: Fractal scaling analysis of the variability in the nuclear contour in tumors of the thyroid: can this method improve the differential diagnosis between malignant and benign follicular neoplasia
3. 2001 Doron Sudarski, Faculty of Medicine, Technion, Haifa.
Correlation between the fractal dimension of the nuclear contours and survival in patients with renal cells carcinoma.
4. Nimrod Goldschmidt, resident in the Department of Obstetrics and Gynecology Carmel Medical Center, Haifa: Morphometric analysis of histological changes in Vulvar Vestibulitis, 1999.

5. 2003 Kerner Arthur: Cardiology, Rambam Medical Center
Correlation between vessels density, complexity and apoptosis in myocardial infarction. Basic science research project.
6. 2002 Schlar Zoya, Oncology, Rambam and Lin Medical Centers
The role of nuclear symmetry, polarity and pleomorphism in predicting tumor multifocality, in urothelial carcinomas – Basic science research project.
7. 2003 Konstantinovski Alex, Urology, Carmel Medical Center,
The role of fractal analysis and wavelet transformation of histological images, in the standardization of Gleason's grading in prostate carcinoma – Basic science project
8. 2005, Andrew Beck, Brown University (Faculty of Medicine), Providence Rhode Island: Novel indices of spatial distribution, orientation and complexity applied to Barrett's esophagus, for the classification and grading of epithelial dysplasia.
9. 2006, Ismail Zahir, Rhode Island Hospital, Department of Pathology and Brown University (Faculty of Medicine): Statistical and Neural Pattern Recognition Methods for the Microscopic Classification of Soft Tissue Tumors: a Comparative Study.
- 10.2010, Shawna Noy (American Program), Bruce Rappaport Faculty of Medicine, Technion, Haifa, Israel.
Computerized Morphometry as an aid in distinguishing recurrent from non-recurrent meningiomas.

Students from other Faculties for Msc degree (Assistant Coordinator):

1998, Daniel Buzaglo, MSc : Faculty of Engineering and Industry, Technion, Haifa.

Thesis entitled: "The development of an artificial intelligence based mathematical model for histologically discriminating between well differentiated microinvasive follicular carcinomas and adenomas of the thyroid"

2005, Amy Kaplan Schecter, B.S: Division of Biology and Medicine, Brown University, Providence, Rhode Island.

Thesis entitled: Applicability of the NAC-Sparing Mastectomy: A Prediction Model Using Mammography to Estimate Risk of NAC Involvement in Breast Cancer Patients

Fields of special interest:

- Routine: Gastrointestinal and Hematopathology
- Research: search for hidden morphological patterns in Pathology and in other Medical fields using: Signal/Image Processing, Bioinformatics, Computer sciences, Biostatistics, Artificial Intelligence, Artificial Life, Chaos and Fractal Geometry applied to Pathology.