

# STEVE GOODISON

---

## CURRICULUM VITAE

July, 2005

---

### Higher Education

- 1993                      PhD. University of Oxford, UK  
Thesis entitled: The transcriptional regulation of the insulin gene
- 1989                      B.Sc. First Class Honors in Biochemistry  
Swansea University, UK

### Present Position

- 2003 - present        Associate Professor (tenure-track)  
Department of Surgery  
University of Florida, Shands Health Science Center  
653 West 8<sup>th</sup> Street  
Jacksonville FL 32209

### Previous Positions

- 2001-2003            Assistant Adjunct Professor  
Dept. of Pathology and UCSD Cancer Center, San Diego, CA
- 1997-2001            Assistant Research Scientist  
Dept. of Pathology and UCSD Cancer Center,  
University of California, San Diego CA, USA
- 1995-1997            Senior Research Fellow  
Cancer Diagnosis and Metastasis Research Laboratory  
University of Oxford, UK
- 1992-1995            Wellcome Trust Prize Fellow  
Department of Clinical Biochemistry  
University of Oxford, UK
- 1994                   Wellcome Trust Visiting Fellow  
(with Professor Richard Goodman, Institute Director)  
Vollum Institute of Advanced Medical Sciences  
Oregon Health Sciences University, Portland, Oregon, USA
- 1994                   Royal Society Travelling Fellow  
Department of Physiology  
University of Sao Paulo, Brazil
- 1989-1992            Wellcome Trust Prize Scholar  
Department of Clinical Biochemistry  
University of Oxford, UK

### Awards and Prizes

- 2003                   Graduate of National Center for Leadership in Academic Medicine
- 2001-2003            UCSD Cancer Center Special Recruit in Molecular Pathology.
- 1999-2001            Sidney Kimmel Scholar Award for Cancer Research
- 1995                   FEBS Research Fellowship (Federation of European Biochemical Societies)
- 1993                   Royal Society Travelling Fellowship
- 1994                   Wellcome Trust Visiting Fellowship
- 1992-1994            Wellcome Trust Prize Research Fellowship
- 1989-1993            Domus Scholarship, Linacre College (University of Oxford)
- 1989-1993            Wellcome Trust Prize Scholarship (for PhD. studies)

## Grants and Contracts Obtained

2004-2009	NIH RO1 5CA108597	Identification and functional analysis of breast tumor metastasis genes.	\$1,250,000
<b>Role : Principal Investigator</b>			
2006-2008	Susan Komen Foundation	Isolation of metastasis-inhibiting monoclonal antibodies.	\$250,000
<b>Role : Principal Investigator</b>			
2005-2008	Florida Biomedical Program	Genomic analysis of voided urine to detect bladder cancer.	\$470,000
<b>Role : Co-Principal Investigator / Mentor</b>			
2004-2008	NIH KO8 DK06137	CAR and adenoviral gene therapy for diabetic renal disease.	\$375,000
<b>Role : Co-Sponsor/mentor</b>			
2000-2002	California Cancer Research Program	Detection of bladder cancer by quantitative telomerase monitoring	\$220,000
<b>Role : Principal Investigator</b>			
1999-2001	Sidney Kimmel Cancer Foundation Scholar Award	Characterization of the hTERT promoter	\$200,000
<b>Role : Principal Investigator</b>			
2000-2004	National Institutes of Health (UO1)	Molecular Characterization of Prostate Cancer	\$6,100,000
<b>Role : Co-Investigator</b>			
2000-2004	National Institutes of Health (R21/R33)	Cancer Classification Based on Alternatively Spliced mRNA Isoforms	\$2,300,000
<b>Role : Co-Investigator</b>			
2001-2004	National Institutes of Health (P20)	In Vivo Cellular and Molecular Imaging	\$1,600,000
<b>Role : Co-Investigator</b>			
2001-2003	Chugai BioPharmaceuticals	Metastases related gene discovery program	\$550,000
<b>Role : Co-Principal Investigator</b>			

<b>Grants and Contracts Obtained continued.....</b>			
2002-2003	American Cancer Society Pilot Project Grant	Studies on the transcriptional regulation of telomerase components during cellular transformation.	\$40,000
<b>Role : Principal Investigator</b>			
1996-1997	Oxford Health Services District Research Council	CD44 promoter analysis	\$120,000
<b>Role : Co-Investigator</b>			
1995-1998	Boehringer Mannheim contract	Breast cancer gene discovery program	\$330,000
<b>Role : Co-Principal Investigator</b>			

## Research Leadership

*Conception, Direction and Supervision of the following Projects:*

Management of Cancer Center Core resources: Set up and manage fluorescent microscopy suite, including Spectral Imaging system (UCSD).

Setting up of a Molecular Pathology core service (San Diego and UF).

Member of Laboratory Design Team for new UCSD Cancer Center building (San Diego).

Planning and design of Shands/UF laboratories.

Metastasis-related gene discovery effort resulting in the derivation of a unique isogenic breast metastasis model and the subsequent identification of several candidates now under genetic manipulation and functional analysis. Personnel: 5-7

Transcriptional regulation, analysis of the promoters of several genes, including telomerase subunits, CD44, and insulin. Personnel: 2-3

Cytogenetic analyses for identification of tumor cell-specific chromosomal aberrations.

Personnel: 2.

Function of novel isoforms of the hTERT telomerase gene.

Personnel: 2

Molecular profiling projects on breast and prostate tumor tissues using microarray and proteomic technologies

Personnel: 2-3

## Recruitment

Recruited research scientists and technicians from junior to senior scientist level.

Served on numerous clinical and research faculty recruitment committees and interview boards for UCSD and UF Colleges of Medicine.

## Teaching

Lectures and tutorials teaching Cancer-related subjects and Biochemistry to Medical Students at Oxford University, UK (1993-1996).

Laboratory training of several graduate students and post-doctoral research staff.

Lectures and tutorials for science and medical graduates at UCSD and UF 1998 - present.

Senior mentor for clinical staff (UF academic mentoring program) 2003-present

Mentorship/training for faculty, postdoctoral and medical residents at UCSD and UF.

Training and supervision of graduate and postgraduate students at UCSD.

Resident teaching courses in Molecular Biology and Molecular Diagnostics at UF.

## Professional Affiliations

1992-1997	Biochemical Society
1996-present	American Association of Cancer Research (AACR)
2003-present	Association of Clinical Scientists
2004-present	Metastasis Research Society

## Peer Review Activities

### *Review Panel activity*

DOD USAMRMC Breast Cancer Program Review Panel	2006 -
Susan Komen Foundation Review Panel	2005, 2006 -

### *Review of articles for the multiple scientific journals including:*

Journal of the National Cancer institute (JNCI)	Oncogene	
Cancer Research	Journal of Pathology	
Clinical Cancer Research	Journal of Clinical Pathology	
American Journal of Pathology	Biotechniques,	
Lancet	Neoplasia	
Invasion and Metastasis	Cancer Gene Therapy	
Biochemical Journal	Gene	etc.....

### *Grant applications reviewed for the following funding bodies:*

American Cancer Society, UCSD Cancer Center, Biotechnology and Biological Sciences Research Council (BBSRC) (UK), Medical Research Council (UK), Dutch Cancer Society, Israeli Cancer Society, various British Cancer Societies, Oxford University Faculty Board and Oxford Health Authority.

## Academic and Scientific Referees

Professor James Feramisco  
Dept. of Medicine, UCSD  
9500 Gilman Drive  
La Jolla, CA 92093-0612 USA

Professor Webster Cavenee  
Director, Ludwig Institute for Cancer Research  
9500 Gilman Drive  
La Jolla, CA 92093-0658 USA

## PUBLICATION LIST

### Peer reviewed articles (in ascending chronological order)

1. **Goodison S**, Kenna S, Ashcroft SJH.  
Control of insulin gene expression by glucose.  
*Biochem J* 285: 563-568 (1992)
2. **Goodison S**, Ashcroft SJH.  
Comparison of rat-I and human insulin gene 5' sequence-mediated transcriptional responses.  
*Diabetic Medicine* 9: 512-514, (1992)
3. **Goodison S**, Ashcroft SJH.  
Human insulin promoter-driven reporter gene expression.  
*Biochem Soc Trans* 21: 225-226 (1992)
4. **Goodison S**, Ashcroft SJH.  
Trans-acting factors and glucose-responsive transcriptional regulation in the insulin gene.  
In: *Physiology and Pathophysiology of the Islets of Langerhans* (ed: B Soria). Plenum Press 231-237 (1994)
5. German M, Ashcroft SJH, Docherty K, **Goodison S**, Rutter W., Steiner D, et al.  
The Insulin gene promoter  
*Diabetes*: Vol 4, 1002-1005. (1995)
6. **Goodison S**, Miyazaki J, Ashcroft SJH.  
Response to glucose of transcription binding in the rat insulin-I gene promoter.  
*Biochem Biophys Res Comm* 203: 702-710, (1994)
7. Yoshida K, Bolodeoku J, Sugino T, **Goodison S**, Matsumura Y, Warren BF, Toge T, Tahara E, Tarin D.  
Abnormal retention of intron 9 in CD44 gene transcripts in human gastrointestinal tumors.  
*Cancer Research* 55, 4273-77 (1995)
8. Yoshida K, **Goodison S**, Sugino T, Bolodeoku J, Churchman M, Warren B, Tarin D.  
Semi-quantitative detection of abnormal CD44 transcripts in colon carcinomas by RT-PCR-enzyme linked immunosorbant assay  
*Molecular Diagnosis* Vol 1, No 3 167-173 (1996)
9. Sugino T, Yoshida K, Bolodeoku J, Tahara H, Buley I, Manek S, Wells C, **Goodison S**, Ide T, Suzuki T, Tahara E, Tarin D. Telomerase activity in human breast cancer and benign breast lesions: Diagnostic applications in clinical specimens including fine needle aspirates.  
*International Journal of Cancer* 69, 301-306 (1996)
10. **Goodison S**, Yoshida K, Tarin D. CD44 intron retention in colonic tumour tissues. In: Recent Advances in Gastroenterological Carcinogenesis. Published by Monduzzi Editore. Editors; Tahara E. and Oohara K.S. 977-982 (1996)
11. Gorham H, Sugino T, Bolodeoku J, Yoshida K **Goodison S**, Tarin D  
Distribution of CD44 messenger RNA in archival paraffin wax embedded tumours and normal tissues viewed by in situ hybridisation.  
*Journal of Clinical Pathology: Mol. Pathol.* 49:147-50 (1996)

12. Yoshida K., Sugino T., Bolodeoku J, Warren BF, **Goodison S**, Woodman A, Toge T, Tahara E, Tarin D. Detection of exfoliated carcinoma cells in colonic luminal washings by identification of deranged patterns of expression of the CD44 gene.  
*Journal of Clinical Pathology* 49, 300-305 (1996)
13. Woodman AW, Sugiyama M, Yoshida K, Sugino T, Borgya A, **Goodison S**, Matsumura Y, Tarin D. Analysis of anomalous CD44 gene expression in human breast, bladder and colon cancer and correlation of observed mRNA and protein isoforms.  
*American Journal of Pathology* 149, No. 5, 1519-1530 (1996)
14. Bolodeoku J, Yoshida K, Sugino T, **Goodison S**, Tarin D.  
Accumulation of immature intron-containing CD44 gene transcripts in breast cancer tissues.  
*Molecular Diagnosis* Vol 1, No. 3. 175-181 (1996)
15. Sugino T, Gorham H, Yoshida K, Bolodeoku J, Nargund V, Cranston D, **Goodison S**, Tarin D.  
Progressive loss of CD44 gene expression in invasive bladder cancer.  
*American Journal of Pathology* 149:873-882, (1996)
16. Yoshida K, Sugino T, Tahara H, Woodman A, Bolodeoku J, Nargund V, Fellows G, **Goodison S**, Tahara E, Tarin D. Telomerase activity in bladder carcinomas and its implications for non-invasive diagnosis by detection of exfoliated cancer cells in urine  
*Cancer* 79: 362-369 (1997)
17. Yoshida K, Sugino T, **Goodison S**, Warren B, Nolan D, Wadsworth S, Mortensen NJ, Toge T, Tahara E, Tarin D. Detection of telomerase activity in exfoliated cancer cells in colonic luminal washings and its related clinical implications.  
*British Journal of Cancer* 75 (4), 548-553 (1997)
18. Bolodeoku J, Yoshida K, Sugino T, Churchman M, **Goodison S**, Tarin D.  
CD44 variant gene transcripts in human breast carcinomas.  
*Biochem. Soc. Trans.* Vol 25, No. 2 356-357 (1997)
19. **Goodison S**, Yoshida K, Sugino T, Woodman AW, Gorham H, Bolodeoku J, Kaufmann M, Tarin D.  
Rapid analysis of distinctive CD44 RNA splicing preferences that characterize colonic tumours.  
*Cancer Research* 57, 3140-3144 (1997)
20. Sugino T, Yoshida K, Bolodeoku J, Tarin D, **Goodison S**.  
Telomerase activity and its inhibition in benign and malignant breast lesions.  
*Journal of Pathology* 183, 57-61 (1997)
21. **Goodison S**, Ashcroft SJH.  
Trans-acting factor(s) confer glucose-responsive transcriptional regulation in the insulin gene.  
*Adv Exp Med Biol* 426: 97-101 (1997)
22. Gorham H, Yoshida K, Sugino T, Marsh G, Charnock M, Tarin D, **Goodison S**.  
Telomerase activity in human gynaecological tissues.  
*Journal of Clinical Pathology* Vol 50, 501-504 (1997)
23. **Goodison S.**, and Tarin D  
The current status of CD44 variant isoforms as cancer diagnostic markers  
*Histopathology* 32: 1-6 (1998)

24. Sugino T, Yoshida K, Zhao S, **Goodison S**, Tarin D.  
Disorderly CD44 gene expression in human cancer cells can be modulated by growth conditions.  
*Journal of Pathology* 186: 17-23 (1998)
25. **Goodison S.**, and Tarin D.  
Clinical implications of anomalous CD44 gene expression in neoplasia.  
*Frontiers in Bioscience* 3: 89-109 (1998)
26. Aogi K, Kitihara K, Buley I, Tahara H, Sugino T, Tarin D, **Goodison S**.  
Telomerase activity in lesions of the thyroid: Application to diagnosis of clinical samples including fine needle aspirates.  
*Clin Cancer Res* 4: 1965-1970 (1998)
27. Urquidi V, Tarin D and **Goodison S**.  
Telomerase in cancer: clinical applications.  
*Annals of Medicine* 30: 419-430 (1998)
28. **Goodison S**, Yoshida K, Churchman M, Tarin D.  
Multiple intron-retention occurs in tumor cell CD44 mRNA processing.  
*Am J Pathol* 153(4):1221-8 (1998)
29. Gorham H, Woodman A, **Goodison S**, Charnock M, Manek S, Sugino T, Tarin D.  
CD44 expression in human cervical intraepithelial neoplasia and carcinoma.  
*Molecular Diagnosis* Vol 4. No. 1, 45-57 (1999)
30. **Goodison S**, Urquidi V, Tarin D  
The CD44 adhesion molecules  
*Molecular Pathology* 52:1-7 (1999)
31. Aogi K, Kitihara K, Urquidi V, Tarin D, **Goodison S**.  
Comparison of CD44 isoforms and telomerase activity as a diagnostic tumor marker in lesions of the thyroid.  
*Clin Cancer Res.* 5(10):2790-7 (1999)
32. Urquidi V, Tarin D, **Goodison S**.  
Role of telomerase in cell senescence and oncogenesis.  
*Annual Rev. Medicine* 51: 65-79 (2000)
33. Woodman A, **Goodison S**, Drake M, Noble J, Tarin D.  
Non-invasive diagnosis of bladder carcinoma by detection of CD44 isoforms on exfoliated urothelia.  
*Clin Cancer Res* (6):2381-92. (2000)
34. Aogi K, Woodman AC, Urquidi V, Mangham DC, Tarin D, **Goodison S**.  
Telomerase activity in soft tissue and bone sarcoma.  
*Clin Cancer Res* (6):4776-4781. (2000)
35. Taniyama K, **Goodison S**, Ito R, Tarin D, Urquidi V.  
PTEN expression is maintained in sporadic colon cancer.  
*J Pathol.* (3):341-8 (2001)
36. Hayashi K., Yokozaki H., **Goodison S.**, Oue A., Suzuki T., Lotan R., Yasui W., Tahara E.  
Inactivation of retinoic acid receptor-beta by promoter CpG hypermethylation in gastric cancer.  
*Differentiation* Vol 68:13-21, (2001)

37. Kawai K, Viars C, Arden K, Tarin D, Urquidi V, **Goodison S**.  
Comprehensive Karyotyping of the HT-29 colon carcinoma cell line.  
*Genes, Chromosomes and Cancer* Vol 34: 1-8, (2002)
38. Urquidi V, Sloan D., Kawai K., Agarwal D., Woodman A., Tarin D., **Goodison S**.  
Contrasting Expression of Thrombospondin-1 and Osteopontin correlates with absence or presence of metastatic phenotype in an Isogenic Model of Spontaneous Human Breast Cancer Metastasis  
*Clinical Cancer Research* Vol 8:61-74, (2002)
39. Sugino T, Kusakabe T, Hoshi N, Yamaguchi T, **Goodison S**, Sekimata M, Homma Y, Suzuki T  
An invasion-independent pathway of blood-borne dissemination : A new murine mammary tumor model of metastasis.  
*American Journal of Pathology* Vol 160 (6); 1973-1980, (2002)
40. Agarwal D., **Goodison S**, Nicholson, B., Tarin D, Urquidi V.  
Representational Difference Analysis Reveals a Correlation between MMP8 Expression and Breast Cancer Metastasis.  
*Differentiation* 71(2):114-25 (2003)
41. Hayashi K., **Goodison S**, Urquidi V, Tarin D., Lotan R., Tahara E.  
The effects of all-trans retinoic acid on the growth of matched metastatic and non-metastatic breast cancer cell lines.  
*International Journal of Oncology* 22(3):623-629 (2003)
42. **Goodison S**, Kawai K, Hihara J, Jiang P, Yang M, Urquidi V, Hoffman R, Tarin D.  
Prolonged dormancy and site-specific growth potential of cancer cells spontaneously disseminated from nonmetastatic breast tumors as revealed by labeling with green fluorescent protein.  
*Clinical Cancer Research* 9:3808-3814 (2003)
43. Ma H, Urquidi V, Kleeman J, **Goodison S**.  
Transcriptional Regulation of the hTERT gene during Human Muscle Cell Differentiation  
*Molecular Cancer Research* 10:739-46 (2003)
44. J Wang-Rodriguez, V Urquidi, A Rivard, **S Goodison**.  
Elevated Osteopontin and Thrombospondin Expression Identifies Malignant Human Breast Carcinoma but is not Indicative of Metastatic Status  
*Breast Cancer Research* Vol 5:136-143 (2003)
45. **Goodison S**, Viars C, Grazzini M and Urquidi V.  
The interrelationship between DRIM gene expression and cytogenetic and phenotypic characteristics in human breast tumor cell lines.  
*BMC Genomics* 4:39 (2003)
46. Sloan DD, Nicholson BE, Urquidi V, **Goodison S**.  
Detection of differentially expressed genes in an isogenic breast metastasis model using RNA Arbitrarily Primed-PCR coupled with array hybridization (RAP-array)  
*American Journal of Pathology* 164(1): 315-23 (2004)
47. RO Stuart, WWachsman, CC Berry, J Wang-Rodriquez, L Wasserman, I Klcansky, D Masys, K Arden, **S Goodison**, M McClelland, I Kalcheva, and D Mercola.  
In silico extraction of cell-type associated patterns of gene expression in prostate cancer  
*Proc. Natl. Acad. Sci. USA* 101: 615-620 (2004)

48. Kreunin P., Urquidi V., Lubman DL., and **Goodison S.**  
Identification of metastasis-associated proteins in a human tumor metastasis model using the mass-mapping technique.  
*Proteomics* 4(9):2754-65 (2004)
49. Sugino T, Yamaguchi T, Ogura G, Saito A, **Goodison S**, Suzuki T.  
Morphological evidence for an invasion-independent metastatic pathway exists in multiple human cancers  
*BMC Medicine* 2;9-15 (2004)
50. Bertholf RL., and **Goodison S.**  
Television viewing and attention deficits in children.  
*Pediatrics* 114(2):511-2. (2004)
51. **Goodison S.**, Viars C., Urquidi V.  
Molecular cytogenetic study of a human breast tumor metastasis model: Identification of phenotype-specific chromosomal rearrangements.  
*Cancer Genetics and Cytogenetics* 156; 37-48 (2005)
52. **Goodison, S**  
Gene Expression Profiling of Breast Cancer in Ethnic Populations: An Aid to Gene Discovery for the Benefit of All.  
*The Breast Journal* 11(2):89-91 (2005)
53. **Goodison S**, Yuan J, Sloan S, Kim R, Li C, Popescu N, Urquidi V.  
The RhoGAP protein DLC-1 functions as a metastasis suppressor in breast cancer cells.  
*Cancer Research* 65(14):6042-53 (2005)
54. Khalbuss W., Ambaya A., **Goodison S.**, Loya A., Masood S.  
Papillary carcinoma of the breast in a male patient with a treated prostatic carcinoma diagnosed by Fine Needle Aspiration Biopsy: A case report and review of the literature.  
*Diagnostic Cytopathology* 34(3):214-7 (2006)
55. Anai S., **Goodison S.**, Shiverick K., Tanaka M., Hirao Y, Rosser CJ.  
A combination of PTEN gene therapy and radiation inhibits the growth of human prostate cancer xenografts.  
(*In Press*) (2006)
56. Ranki T., Kanerva A., Sarkioja M., Kangasniemi L., Raki M., Laakkonen P., **Goodison S.**, Hemminki A.  
A heparin sulphate targeted conditionally replicative adenovirus, Ad5.pK7- $\Delta$ 24, for the treatment of advanced breast cancer.  
*Gene Therapy* (*In Press*) (2006)
57. Shuja S, Mohammadi A, Grigorian S, **Goodison S.**  
Patterns of Cathepsin H Expression in Glioblastoma Multiforme.  
(*Submitted*)
58. Khalbuss, W., **Goodison S.**  
Immunohistochemical detection of hTERT in urothelial lesions: a potential adjunct to urine cytology.  
(*Submitted*)
59. Sugino T., Yamaguchi T., Ogura G., Kusakabe T., **Goodison S.**, Homma Y., Suzuki T.  
The secretory leukocyte protease inhibitor (SLPI) suppresses cancer cell invasion but promotes blood-borne metastasis via an invasion-independent pathway  
(*Submitted*)

60. Anai S., **Goodison S.**, Shiverick K., Hirao Y., Brown B., and Rosser CJ. Knock-down of Bcl-2 by antisense oligodeoxynucleotides induces radiosensitization in the human PC3 prostate tumor model.  
(Submitted)
61. Anai S., Tanaka M., Kim W., Takada S., Boehlein S., **Goodison S.**, Shiverick K., Hirao Y., Rosser CJ. Increased expression of Cox-2 correlates with resistance to radiation in human prostate adenocarcinoma cells.  
(Submitted)
62. Paweena Kreunin, Chul Yoo, Virginia Urquidi, David M Lubman, **Steve Goodison** Proteomic Profiling Identifies Breast Tumor Metastasis-Associated Candidates in an Isogenic Model.  
(Submitted)
63. DM. Lubman, NS. Buchanan, FR. Miller, K Cho, R Wu, **S Goodison**, Y Wang, P Kreunin and T J. Barder. A 2-Dimensional Liquid Mass Mapping Technique for Biomarker Discovery.  
*In: Proteomics book (In Press)*

---

## Patents

1. *Exon-Link method for CD44-mediated Early Tumor Detection.*  
Inventor: S Goodison.  
Publication Date: 1999-01-28  
Patent Number: WO9904036  
IPC Classification: C12Q1/68
2. *Cell type-specific patterns of gene expression in prostate cancer*  
US Patent Number: 11/033.056  
S Goodison; Co-Inventor
3. *MMP-8 as a diagnostic marker and/or therapeutic target for metastatic breast cancer.* US Patent Submitted.

## Short Communications - abstracts for presentation at scientific meetings

1. **Goodison S**, Ashcroft SJH. The insulin gene 5' regulatory region controls the transcriptional response to glucose and other nutrients. *Diabetologia* 34 (Supplement 2) A44 p219 (1991)
2. Yoshida, K., **Goodison, S** et al . Disturbed CD44 gene activity in colorectal carcinoma-a new abnormality with clinical diagnostic potential. Proceedings of the British Society of Gastroenterology. Abstract 23 (1996)
3. Bolodeoku J., Yoshida K, Sugino T., **Goodison S.**, Tarin D. Variant exon expression and intron retention in CD44 gene transcripts in human breast carcinomas. Proceedings of the Pathological Society of Great Britain and Ireland. *Journal of Pathology* Vol 178. Supplement 8A (1996)
4. Yoshida K., Warren B., **Goodison S**, Tarin D. Abnormal retention of intron 9 in CD44 gene transcripts in human gastro intestinal tumours. Proceedings of the Pathological Society of Great Britain and Ireland. (1995) *Journal of Pathology* Vol 178. Supplement 19A (1996)

5. Woodman AC., Gorham H., **Goodison S.**, Tarin D. Disorganised CD44 gene transcription and translation in colon, breast and bladder cancer: Clinical implications. Proceedings of the American Association of Cancer Research (1996) (Washington, USA) Abstract 606
6. **Goodison S.**, Yoshida K, Sugino T, Woodman AW, Bolodeoku J, Tarin D. CD44 RNA splicing preferences in colorectal carcinoma. Proceedings of the Pathological Society of Great Britain and Ireland. Journal of Pathology Vol 179. Supplement 39A (1996)
7. Bolodeoku J, Yoshida K, Sugino T, Churchman M, Woodman A, **Goodison S.**, Tarin D. The expression of CD44 in human breast cancer cell lines Proceedings of the Pathological Society of Great Britain and Ireland. Journal of Pathology Vol 179. Supplement 19A (1996)
8. **Goodison S.**, Yoshida K, Churchman M, Zhao S, Sugino T, Tarin D. Characterisation of CD44 intron 18 and analysis of its retention in colorectal carcinoma. Proceedings of the Pathological Society of Great Britain and Ireland. Journal of Pathology Vol 179. Supplement 38A (1996)
9. **Goodison S.**, Yoshida K, Sugino T, Woodman AW, Bolodeoku J, Tarin D. Altered splicing preferences of CD44 in colorectal carcinoma. Proceedings of the 9th International Conference of the International Society of Differentiation. (Pisa, Italy) Abstract 133, Page 120 (1996)
10. Woodman AC, Sugiyama M, Yoshida K, Gorham H, **Goodison S.**, Matsumura Y, Tarin D. Clinical implications of disorderly CD44 gene transcription and translation in tumours of the breast, bladder and colon. Proceedings of the 9th International Conference of the International Society of Differentiation. Pisa, Italy) Abstract 277, Page 157 (1996)
11. **Goodison S.**, Yoshida K, Churchman M, Sugino T, Tarin D. CD44 Intron 18 characterisation and analysis of its retention in colorectal carcinoma mRNA. Proceedings of the 9th International Conference of the International Society of Differentiation. (Pisa, Italy) Abstract 295, Pg 162 (1996)
12. Yoshida K, Sugino T, Tahara H, **Goodison S.**, Tahara E, Tarin D. Detection of telomerase activity in exfoliated cancer cells in colon luminal washings and its clinical application. Proceedings of the International Conference on Gastroenterological Carcinogenesis. Hiroshima, Japan. Abstract 042, Page 146 (1996)
13. Bolodeoku J, Yoshida K, Sugino T, Churchman M, Woodman A, **Goodison S.**, Tarin D. The expression of the adhesion molecule CD44 in human breast cancer cell lines in culture. Proceedings of the 9th International Conference of the International Society of Differentiation. (Pisa, Italy) Ab. 51, Pg 99 (1996)
14. Sugino T., Gorham H., Bolodeoku J., **Goodison S.**, Tarin D. Progressive loss of CD44 gene expression in invasive bladder cancer. Journal of Pathology Vol 179. Supplement 39A (1996)
15. **Goodison S.**, Yoshida K, Sugino T., Tarin D. CD44 RNA splicing preferences in colorectal carcinoma. Proceedings of the International Conference on Gastroenterological Carcinogenesis. (Hiroshima, Japan) Abstract 017, Page 140 (1996)
16. Sugino T., Yoshida K., Tarin D., **Goodison S.** Telomerase activity and its inhibition in benign and malignant breast lesions. Proceedings of the American Association of Cancer Research San Diego, USA Vol 38 Abstract 3401, page 507 San Diego, USA (1997)
17. **Goodison S.**, Zhao S., Churchman M., Tarin D. Transcriptional regulation of the CD44 gene. Proceedings of the American Association of Cancer Research Vol 38 Abstract 2808, page 419 San Diego, USA (1997)
18. **Goodison S.**, Yoshida K, Churchman M, Tarin D. Multiple Intron retention in tumour mRNA American Association of Cancer Research, New Orleans 1998 Proceedings of the AACR Vol 39, Abstract #3056, page 449
19. Aogi K, Tahara H, Tarin D, **Goodison S.** Telomerase activity in thyroid carcinoma American Association of Cancer Research, New Orleans 1998 Proceedings of the AACR Vol 39, Abstract #3689, page 542
20. Aogi K, Kitahara K, Suzuki S, Toge T, **Goodison S.**, Tarin D. Alteration of telomerase activities in cancer cell lines after anti cancer drug treatment. American Association of Cancer Research, New Orleans 1998 Proceedings of the AACR Vol 39, Abstract #2411, page 353
21. Woodman A, **Goodison S.**, Sugiyama M, Smith J, Noble J, Matsumura Y and David Tarin. CD44: The measure of bladder cancer Proceedings of the IFCC Conference, Pisa, Italy 1998.
22. **Goodison S.**, Woodman AC, Noble J, Tarin D. Detection of urothelial neoplasia by CD44 ELISA American Association of Cancer Research, Philadelphia 1999 Proceedings of the AACR Vol 40, Abstract #1587, page 239
23. Aogi K, Kitahara K, Suzuki S, Toge T, Tarin D, **Goodison S.** Comparison of CD44 expression and telomerase activity as tumor markers. American Association of Cancer Research, Philadelphia 1999 Proceedings of the AACR Vol 40, Abstract #1771, page 267
24. Urquidi V, Aogi K, Tarin D, **Goodison S.** Telomerase activity in soft tissue sarcoma. American Association of Cancer Research, Philadelphia 1999 Proceedings of the AACR Vol 40, Abstract #3971, page 602
25. D Agarwal, V Urquidi, **S Goodison** and D Tarin. MMP8 over-expression correlates with metastasis inhibition in a breast carcinoma cell line model. American Association of Cancer Research, San Francisco, 2000 Proceedings of the AACR Vol 41, Abstract #849, page 143

26. V Urquidi, **S Goodison** and D Tarin Breast carcinoma clonal cell lines with opposite metastatic phenotype exhibit a significant difference in thrombospondin-1 expression. American Association of Cancer Research, San Francisco 2000 Proceedings of the AACR Vol 41, Abstract #56, page 9
27. K Taniyama, R Ito, V Urquidi, D Tarin and **S Goodison** PTEN expression is maintained in sporadic colorectal carcinoma. American Association of Cancer Research, San Francisco 2000 Proceedings of the AACR Vol 41, Abstract #1288, page 202
28. D Agarwal, V Montel, **S Goodison**, D Tarin and V Urquidi. Generation of an Angiostatin-like Fragment Correlates with Matrix Metalloproteinase 8 Over-expression and Metastasis Inhibition in a Breast Carcinoma Cell Line. American Association of Cancer Research, New Orleans 2001 Proceedings of the AACR Vol 42, Abstract #3821
29. K Kawai, C Viars, V Urquidi, D Tarin, K Arden and **S Goodison**. Comprehensive Karyotyping of the Human HT-29 Colon Carcinoma Cell Line American Association of Cancer Research, New Orleans 2001 Proceedings of the AACR Vol 42, Abstract #354
30. K Aogi, S Takashima, **S Goodison** and D Tarin Co-amplification of DNA topoisomerase IIalpha and retinoic acidalpha receptor in topoisomerase-inhibitor treated cancer cell lines. American Association of Cancer Research, New Orleans 2001 Proceedings of the AACR Vol 42, Abstract #1381
31. H Ma, V Urquidi, J Wong, D Tarin and **S Goodison** Cell-specific Regulation of hTERT Promoter Activity. American Association of Cancer Research, New Orleans 2001 Proceedings of the AACR Vol 42, Abstract #2643
32. D Agarwal, M Grazzini, **S Goodison**, D Tarin and V Urquidi. A Novel Alternatively Spliced Form of Matrix Metalloproteinase 8 Possesses an Altered Hemopexin-like Domain. American Association of Cancer Research, New Orleans 2001 Proceedings of the AACR Vol 42, Abstract #3818
33. H Ma, V Urquidi, D Tarin and **S Goodison**. (*Invited plenary lecture*) Regulation of hTERT mRNA expression in transformed cells. The 9<sup>th</sup> Taisho International Symposium on Gastroenterology, Shimoda, Japan 2001
34. The effects of all-trans-retinoic acid on the growth of isogenic metastatic and non-metastatic breast cancer cell lines Ken Hayashi, **Steve Goodison**, David Tarin, Reuben Lotan, Eiichi Tahara. American Association of Cancer Research, San Francisco 2002. Proceedings of the AACR Vol 43, Abstract #95
35. hTERT promoter regulation during differentiation of human muscle cell lineages. **Steve Goodison**, Hongwen Ma, Jeanine Kleeman, Virginia Urquidi. American Association of Cancer Research, San Francisco 2002. Proceedings of the AACR Vol 43, Abstract #1515
36. Analysis of Gene Expression in Human Breast Cancer Cells Relative to Normal Breast Epithelium By Laser Capture Microscopy and Quantitative PCR Jessica Wang-Rodriguez, **Steven Goodison**, Virginia Urquidi, David Tarin. American Association of Cancer Research, San Francisco 2002. Proceedings of the AACR Vol 43, Abstract #2260
37. Tyrosinase related protein 1 (TYRPI) alone is not sufficient to inhibit the metastatic phenotype of human breast cancer cells. Benjamin Nicholson, Dianne Agarwal, Kanji Kawai, Jun Hihara, **Steve Goodison**, David Tarin, Virginia Urquidi. American Association of Cancer Research, San Francisco 2002. Proceedings of the AACR Vol 43, Abstract #1892
38. Mapping of the DRIM gene and the quantitative analysis of its expression in a panel of breast tumor cell lines. **Steve Goodison**, Carrie Viars, Virginia Urquidi, David Tarin. American Association of Cancer Research, San Francisco 2002. Proceedings of the AACR Vol 43, Abstract #1902
39. Isogenic cell lines cloned from HT29 human colon carcinoma provide new metastasis gene hunting tools. Kanji Kawai, Ping Jiang, Jun Hihara, **Steven Goodison**, Robert M. Hoffman, David Tarin. American Association of Cancer Research, San Francisco 2002. Proceedings of the AACR Vol 43, Abstract #5259
40. Spectral karyotyping of a series of breast tumor cell line subclones of known metastatic phenotype. **Steve Goodison**, Carrie Viars and Virginia Urquidi. CANCER EPIDEM BIOMAR 11 (10): A134 Part 2 OCT 2002
41. hTERT promoter regulation in reversibly senescent fibroblasts. Virginia Urquidi, Hongwen Ma, and **Steve Goodison**. CANCER EPIDEM BIOMAR 11 (10): A126 Part 2 OCT 2002
42. Molecular characterization of monoclonal MDA-435 and MDA-231 breast tumor cell lines of differing tumorigenic and metastatic phenotype. Virginia Urquidi, Jing Yuan, Carrie Viars and **Steve Goodison**. AACR Mouse models of Cancer Conference, Orlando, FL 2003.
43. The Induction of hRAD9 and Histone Acetylation is Required for G2/M Checkpoint Signal Transduction in Gastric Cancer Cells. Ken Hayashi, Hiroki Kuniyasu, Naohide Oue, **Steve Goodison**, Eiichi Tahara, Wataru Yasui. Annual meeting of the American Association of Cancer Research, Toronto 2003. Proceedings of the AACR Vol 44, Abstract #87
44. Prolonged tumor cell dormancy, success or failure of metastasis and site specific tumor growth potential, analysed using cells labeled with green fluorescent protein (GFP). **Steven Goodison**, Kanji Kawai, Jun Hihara, Ping Jiang, Meng Yang, Virginia Urquidi, Robert Hoffman, David Tarin, Annual meeting of the American Association of Cancer Research, Toronto 2003. Proceedings of the AACR Vol 44, Abstract #289
45. Expression of extracellular matrix proteins osteopontin and thrombospondin-1 and of the cell surface serine protease hepsin in ovarian cancer progression. Virginia Urquidi, Reiko Ito, Iveta Kalcheva, Jing Yuan, **Steve Goodison**.

- Annual meeting of the American Association of Cancer Research, Toronto 2003. Proceedings of the AACR Vol 44, Abstract #1173
46. In silico dissection of cell-type associated patterns of gene expression in prostate cancer  
Robert O. Stuart, William Wachsman, **Steven Goodison**, Igor Klacansky, Michael McClelland, Jessica Wang-Rodriguez, Linda Wasserman, David Tarin, Dan Mercola,  
Annual meeting of the American Association of Cancer Research, Toronto 2003. Proceedings of the AACR Vol 44, Abstract #3210
  47. Regulation of the hTERT promoter in immortalized human fibroblasts.  
Virginia Urquidi, Hongwen Ma, **Steve Goodison**.  
Annual meeting of the American Association of Cancer Research, Toronto 2003. Proceedings of the AACR Vol 44, Abstract #4192
  48. Comparison of a Support Vector Machine approach and a Nearest Shrunken Centroid approach for the determination of a small set of genes that best classify gene expression data for human prostate carcinoma.  
Igor Klacansky, William Wachsman, **Steven Goodison**, Michael McClelland, Jessica Wang-Rodriguez, Dan Mercola, Robert O. Stuart. Annual meeting of the American Association of Cancer Research, Toronto 2003. Proceedings of the AACR Vol 44, Abstract #4287
  49. Urquidi V, Kreunin P, Lubman DM, and **Goodison S**  
Identification of Metastasis-Associated Proteins using a Mass Mapping Technique  
9<sup>th</sup> Annual International Breast Symposium 2004, Amelia Island, Florida
  50. **Goodison S**, Sloan D, Nicholson B, and Urquidi V.  
Detection of candidate breast metastasis genes using RNA Arbitrarily Primed-PCR coupled with array hybridization (RAP-Array).  
9<sup>th</sup> Annual International Breast Symposium 2004, Amelia Island, Florida
  51. David M. Lubman, Paweena Kreunin, Virginia Urquidi, and **Steve Goodison**  
Identification of Metastasis-Associated Proteins using a Mass Mapping Technique.  
95<sup>th</sup> Annual meeting of the American Association of Cancer Research, Orlando (2004)
  52. Virginia Urquidi, Jing Yuan, Carrie Viars and **Steve Goodison**.  
Molecular characterization of monoclonal MDA-435 and MDA-231 breast tumor cell lines of differing tumorigenic and metastatic phenotype. AACR Mouse models of Cancer Conference, Orlando, FL (2003).
  53. **Steve Goodison**, Abdel Elkhouloun, Carrie Viars, Virginia Urquidi  
Molecular profiling of a panel of monoclonal MDA-MB-435 tumor cell lines of differing tumorigenic and metastatic phenotype. 95<sup>th</sup> Annual meeting of the American Association of Cancer Research, Orlando (2004).
  54. Sugino T, Yamaguchi T, Ogura G, Saito A, **Goodison S**, Suzuki T.  
Morphological evidence for an invasion-independent metastatic pathway exists in multiple human cancers  
*BioMed Central Open Access Research Bulletin* June (2004)
  55. Kreunin P, Urquidi V, Lubman DM, **Goodison S**. Proteomic profiling identifies breast tumor metastasis-associated candidates. 7<sup>th</sup> Asian Conference on Analytical Sciences: July 28-31, 2004, Hong Kong.
  56. Kreunin P, Urquidi V, **Goodison S**, Lubman DM. Differential Proteomics of Metastatic Cancer Cells.  
52<sup>nd</sup> ASMS Conference: May 23 - 27, 2004, Nashville, Tennessee.
  57. Kreunin P, Urquidi V, **Goodison S**, Lubman DM. Expression Analysis of Secreted Proteins and the Presence or Absence of Metastatic Behavior in Human MDA-MB-435 Cell Lines by a Mass Mapping Technique.  
51<sup>st</sup> ASMS Conference: June 8-12, 2003, Montreal, Canada.
  58. **Goodison S**, Viars C, Urquidi V. Molecular cytogenetic profiling of metastatic breast cancer.  
*BreastCancer.Net News*. Jan 3<sup>rd</sup>, 2005
  59. Liu L., Popp M., Liu X., Farmerie WG., Casella G., **Goodison S**.  
A new Meta-analysis method for microarray studies.  
Third Annual Bioinformatics Workshop. University of Florida (2005).
  60. Satoshi Anai, **Steve Goodison**, Kenneth Iczkowski, Kathleen Shiverick, Robert Brown, Charles Rosser.  
Synergistic radio-sensitization by antisense Bcl-2 oligodeoxynucleotide in the PC-3 prostate tumor model overexpressing Bcl-2. Abstract # LB-283. 96<sup>th</sup> Annual meeting of the American Association of Cancer Research, Anaheim (2005).
  61. **Steve Goodison**, Derek Sloan, Ryung Kim, Cheng Li, Nicholas Popescu, Virginia Urquidi.  
The RhoGAP protein DLC-1 functions as a metastasis suppressor in breast cancer cells.  
Abstract # 322. 96<sup>th</sup> Annual meeting of the American Association of Cancer Research, Anaheim (2005).
  62. Satoshi Anai, **Steve Goodison**, Kenneth Iczkowski, Kathleen Shiverick, Robert Brown, Charles Rosser. University of Florida Prostate Cancer Translational Working Group, Environmental Stressors to Prostatic Cancer Cells In Vitro Cause an Up-Regulation of Cox-2 Expression. UF College of Medicine Research Day, Gainesville. April 2005
  63. Satoshi Anai, **Steve Goodison**, Kenneth Iczkowski, Kathleen Shiverick, Robert Brown, Charles Rosser. Synergistic radiosensitization by antisense Bcl-2 oligodeoxynucleotide in the PC-3 prostate tumor model overexpressing Bcl-2. UF College of Medicine Research Day, Gainesville. April 2005

64. Satoshi Anai, **Steve Goodison**, Kenneth Iczkowski, Kathleen Shiverick, Robert Brown, Charles Rosser. The mycoplasmal protein, p37 & its effects on human tumor invasion. UF College of Medicine Research Day, Gainesville. April 2005
65. Satoshi Anai, **Steve Goodison**, Kenneth Iczkowski, Kathleen Shiverick, Robert Brown, Charles Rosser. Adenoviral-mediated PTEN transgene expression on human tumor invasion. UF College of Medicine Research Day, Gainesville. April 2005
66. David M. Lubman, Paweena Kreunin, Virginia Urquidi, **Steve Goodison**. Department of Pathology, University of Florida, Jacksonville campus. Identification of Metastasis-Associated Proteins using a Mass Mapping Technique. UF College of Medicine Research Day, Gainesville. April 2005
67. **Steve Goodison**, Li Liu, Mick Popp, Virginia Urquidi. Department of Pathology, University of Florida, Jacksonville Campus. Molecular profiling of a panel of monoclonal MDA-435 tumor cell lines of differing tumorigenic and metastatic phenotype. UF College of Medicine Research Day, Gainesville. April 2005
68. Kreunin P, Urquidi V, Lubman DM, **Goodison S**. Breast Tumor Metastasis-Associated Proteins Revealed by 2-D Liquid Separation. 53rd ASMS Conference on Mass Spectrometry, June 5 - 9, 2005. San Antonio, Texas.
69. **Steve Goodison**. Cell-type associated patterns of gene expression in prostate cancer. Association of Clinical Scientists' 125<sup>th</sup> meeting in Troy, Michigan. 2005
70. Kreunin P, Yoo C, Urquidi V, Lubman DM, **Goodison S**. Human Tumor Metastasis: Identification of Posttranslational Modifications Using On-line Intact Protein Molecular Mass Characterization and Tandem Mass Spectrometry. 9th Asian Conference on Analytical Sciences: July, 2006, Singapore.
71. Yipeng Wang, Cecilia Urbina, Anne Sawyers, **Steve Goodison**, Dan Mercola, Michael McClelland. Karyotype abnormalities and pathway analysis in both prostate tumors and adjacent stroma, Abstract #858 97<sup>th</sup> Annual meeting of the American Association of Cancer Research, Washington (April, 2006).
72. Satoshi Anai, Kogenta Nakamura, **Steve Goodison**, Katherine Shiverick, Bob Brown, Charles J. Rosser. Irradiation increases uptake of antisense oligodeoxynucleotides in human prostate cancer cells. Abstract #2163. 97<sup>th</sup> Annual meeting of the American Association of Cancer Research, Washington (April, 2006).
73. **Steve Goodison**, Mick Popp, Xueli Liu, W G. Farmerie, George Casella, Li Liu. A new meta-analysis method applied to prostate cancer profiles. Abstract #5306. 97<sup>th</sup> Annual meeting of the American Association of Cancer Research, Washington (April, 2006).
74. Satoshi Anai, Kogenta Nakamura, **Steve Goodison**, Kathleen Shiverick, Kenneth Iczkowski, Motoyoshi Tanaka, Charles Joel Rosser. A combination of PTEN gene therapy and radiation inhibits the growth of human prostate cancer xenografts. Abstract #5314. 97<sup>th</sup> Annual meeting of the American Association of Cancer Research, Washington (April, 2006).
75. Kreunin, P, Zhao, J, Lubman, D. M., Urquidi, V., **Goodison, S**. Characterizing the human urine glycome using lectin affinity chromatography and nanLC-MS/MS analysis. ProteomLUX 2006 - International conference on proteomics in Luxembourg (Oct 11-14, 2006).