



SARCOMA FOUNDATION OF AMERICA
FINAL REPORT

Project Title: Mechanisms of tumor progression
and kinome targeting in peripheral nerve
sheath tumors

Project Number: SFA08-25

1. Date project was initiated: 01/01/2007
2. Period covered by this report: From June 1, 2008 To May 31, 2009
3. Publications, Abstracts, and Presentations:

- a. List all manuscripts submitted for publication during the period covered by this report resulting from this project. Include those in the categories of lay press, peer-reviewed scientific journals, invited articles, and abstracts. Each entry must include the author(s), article title, journal [book, editors(s), publisher, volume number, page number(s), and date.]

(1) Lay Press:

(2) Peer-Reviewed Scientific Journals:

Gene expression profiles in malignant peripheral nerve sheath tumors, submitted to *J Pathology*
Autonescu CK et al.

(3) Invited Articles:

(4) Abstracts:

- b. List presentations made during the last year (international, national, local societies, etc.). Use an asterisk (*) if presentation produced a manuscript.

USCAP Boston 03/2008

4. Provide a brief list of keywords: (limit to 20 words)

*MALIGNANT PERIPHERAL NERVE SHEATH TUMORS
RTYROSINE KINASE RECEPTORS
TUMOR PROGRESSION
SARCOMA*

⊕ Further mutation analysis will be performed on additional candidate genes (EPHB3 and PRKCB1) from other funding opportunities.

- 5. Summarize the progress during the period of this report and its impact on your plans for the remainder of the project. Include a summary of the progress toward the achievement of the originally stated aims and list the significant results:

Based on the differential gene expression of MPNST vs other sarcoma types, we have performed full sequence analysis of key tyrosine kinases, including ERBB2, NTRK1 and NTRK3. No mutations were identified ⊕

- 6. In layperson's terms, summarize the progress during the period of this report. Explain any medical significance or implications of your results to date:

During this funding period we have investigated the gene signature profiles of malignant peripheral nerve sheath tumors and established a short list of candidate genes that are relevant for sarcoma genes and tumor progression.

Arthur Antoni
Principal Investigator (signature)

07/21/09
Date

[Signature]
Department Chair (signature)

7/21/09
Date