

# Attachment NK 8.15 – Poster Fair Call for Abstracts



National Nurses Week  
Poster Fair

May 8, 2013

## Call for Nurses' Week Posters

### General Information

We are seeking posters for the Nurses' Week Poster Fair. The theme is "Genetics – The New Frontier" (think Star Trek). The topic should be about health conditions that have a genetic/genomic component or genetic testing as it relates to your specific patient population such as newborn screening. It should be a topic you are interested in learning more about and sharing with others. You may be as creative as possible. This will be open to all nurses. Eligible participants will be awarded clinical ladder points. Some examples of genetic conditions or testing in the acute care setting are:

Galactosemia	Breast/Ovarian cancer	Degenerative disc disease
Alzheimer's disease	Muscular dystrophy	Cardiomyopathies
Cystic fibrosis	Down syndrome	Diabetes
Sickle cell anemia	Strokes	Hemophilia

**Display Size:** Posters must be table top trifold, a maximum of 36 x 48 inches

Deadline: Submit poster to Donna Mangruen on 2 South by **4/22/2013**.

### Poster Abstract Submission

Poster abstracts must be submitted for review by **4/8/2013** to [donna.m.mangruen@osfhealthcare.org](mailto:donna.m.mangruen@osfhealthcare.org)

### **Poster abstracts *must* contain the following information:**

- Poster Title
- Author(s), credentials and certifications
- Introduction: Brief description of the genetic disorder
- Two learning objectives
- Details/facts about the genetic disorder. This may include population affected, chance of inheritance, mortality rate, testing for the disorder, treatment options etc...
- Description of how this relates to nursing practice/patient care
- Two test questions (***The questions should NOT be included on the actual poster, but content relating to questions should provide the answer to questions.***)
- References

This year a Poster Award will be granted to the poster that receives the most participants' votes based on presentation, creativity (theme) and implications to patient care. To be considered for an award the author or a co-author **must be present** during the poster presentation/social hour.

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## Poster Presentation

### **Poster Presentation and Social Hour**

The time allocated for poster discussions and to facilitate interaction with poster presenters is from 1200 – 1400 during the social hour. Additional clinical ladder points will be awarded for eligible participants who are present.

## **Genetic Tumor Profiling and Personalized Cancer Care**

**Kelene S. Rousey, BSN, RN, OCN**

**Introduction:** The detection of genetic changes within cancerous tumors and protein expression identification are essential tools for the implementation of personalized cancer care.

**Objectives:** Describe the purpose and benefit of tumor profiling.

**Details:** The development of tumors is a series of mutations that begin in a single cell and its offspring. Within a tumor genetic changes occur over time. These changes affect the appearance of cells, protein expression on the cell surface (biomarkers), cell growth, reproduction and cell death. Advances in technology have enabled scientist to distinguish molecular differences within cancerous tumors. These differences or mutations have resulted in different responses to treatment. These tumor specific characteristics (tumor or gene profiling) can be used to predict therapy, targets to therapy and overall disease prognosis.

Cellular genetics has resulted in new drug developments or targeted therapy. Targeted therapy interferes with specific proteins or biomarkers on the surface of tumors thus inhibiting tumor growth. Targeted cancer therapy or customized approach to cancer treatment is more effective than current treatments and less harmful to normal cells. There are targeted therapies for [breast cancer](#), [multiple myeloma](#), [lymphoma](#), [prostate cancer](#), [melanoma](#) and other cancers.

**Nursing Practice:** Nursing practice has a long history of providing holistic patient care. As tumor profiling is incorporated into the patients plan of care, nurses will continue to be an integral member of the healthcare team as the patient advocate, a provider of education and anticipating patient needs to ensure holistic personalized treatment.

**Questions:** Genetic changes that occur within a tumor impacts treatment in all of the following except?

- A. Targeted therapy
- B. New drug development
- C. Individualized treatment
- D. Staging of various cancers

### **References:**

- Goetsch, C. M. (2011). Genetic tumor profiling and genetically targeted cancer therapy. *Seminars in Oncology Nursing*, 27(1), 34-44. doi: 10.1016/j.sconcn.2010.11.005.
- Davidson, N. E. (2013). Fifteen years of anit-HER2 therapy. *Oncology*, 27(3), 1-2.  
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- Richmond, E. S., & Dunn, D. (2012). Biomarkers: an overview for oncology nurses. *Seminars in Oncology Nursing*, 28(2), 87-92. doi: 10.1016/j.soncn.2012.03.002.

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Santos, E. M. M., Edwards, Q. T., Santos, M. F., Rogatto, S. R., Achatz, M. I. W., and MacDonald, D. J. (2013). Integration of genomics in cancer care. *Journal of Nursing Scholarship*, 45(1), 43-51. doi: 10.1111/j.1547-5069.2012.01465.x.