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> Bandung, Indonesia 5-6 September 2016

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Dean of Faculty of Medicine Universitas Padjadjaran



Advances in Biomolecular Medicine

Proceedings of the 4th BIBMC (Bandung International Biomolecular Medicine Conference) 2016 and the 2nd ACMM (ASEAN Congress on Medical Biotechnology and Molecular Biosciences), October 4-6, 2016, Bandung, West Java, Indonesia

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Advances in Biomolecular Medicine contains the selected papers presented at the 4th BIBMC (Bandung International Biomolecular Medicine Conference) and the 2nd ACMM (ASEAN Congress on Medical Biotechnology and Molecular Biosciences), hosted by the Faculty of Medicine, Padjadjaran University, Bandung, West Java, Indonesia, 4-6 October 2016. In line with the United Nations Sustainable Development Goals, the theme of the joint scientific meeting is 'Medical innovation & translational research to ensure healthy lives & promote well-being for all at all ages'.

Authors include scientists, academics, practitioners, regulators and other key individuals with expertise and experience relevant to biomolecular medicine, medical biotechnology and molecular biosciences. Topics of the papers cover various aspects of infection, oncology, tuberculosis, genetics, thalassemia, nutrition, cardiovascular, wound healing and endocrinology. This book is essential reading for academics, scientist, practitioners and regulators involved in the area of biomolecular medicine, medical biotechnology and molecular biosciences.

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Bandung 2016.

The Correlation between Natrium Iodide Symporter (NIS) with C-Fos Expressions in Breast Cancer Cell Lines



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Background

- Radioiodine has been used for more than 60 years as adjuvant therapy of well-differentiated thyroid cancer.
- lodine transport into thyroid follicular cells is mediated by Natrium iodide symporter (NIS).
- Natrium iodide symporter (NIS) plays a role as an iodine co-transporter.
- The expression of NIS was found majority in an invasive breast cancer disease.
- It is related to a malignant transformation process.

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- Furthermore, c-fos is a proto-oncogen, It has a role in response to proliferative signals.
- · It is used as a marker of proliferation.
- The aim of this study is to investigate the correlation between NIS with c-fos expressions in breast cancer cell lines as a basic for radioiodine treatment.

Materials and Methods

- A study → at Faculty of Medicine, Padjadjaran Universitas.
 September to December 2014.
- SKBR-3 cell line represents HER2 subtype and MCF-7 represents luminal subtype.
- A rabbit polyclonal antibody anti-c fos (ab7963) and a rabbit polyclonal antibody NIS (ab83816) were used as primer antibody.
- A goat polyclonal antibody to rabbit IgG is used as secondaryantibody (ab6716).
- The expressions of NIS and c-fos mRNA were analyzed by one step real-time quantitative PCR.
- The proteins were detected by immunocytofluoresence.

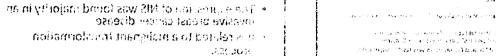
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Results: Protein and mRNA NIS

- Protein and mRNA NIS are found in SKBR-3, <u>but are</u> not found in MCF-7 cells.
- The protein is expressed in cytoplasm and membrane of cells.
- The copy number of mRNA NIS is 0.7 ± 0.01.



Results: Protein and mRNA c-Fos

- Protein and mRNA c-fos are found in MCF-7, but are not found in SKBR-3 cells.
- The copy number of mRNA c-fos is 1.13 ± 0.02.
- We find an inverse correlation between NIS with c-fos expressions



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Discussion

- HER2 subtype is a progressive type of breast cancer compare to luminal type
- NIS expression endogen is found in HER2 type, but not in MCF-7
- · So far, Mostly studies used MCF7 cell line
- NIS transfection to breast cancer cells → for radioiodine treatment
- Need selection subtype of breast cancer for radioiodine treatment

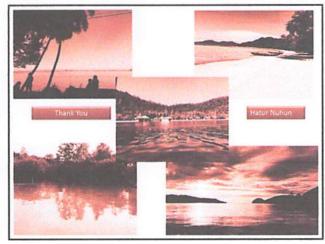
 Further studies are need to investigate the response of radioiodine in breast cancer.

Conclusions

- An inverse correlation of expressions between NIS with c-fos.
- A SKBR-3 cell line which it represents HER2 subtype seems to be suitable to receive radioiodine.
- The c-fos is expressed in MCF-7 instead of in SKBR-3 cells.
- This finding has raise an assumption that c-fos may not appropriate as a marker of proliferation in breast cancer.

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