



Is magnetic resonance imaging texture analysis a useful tool for cell therapy in vivo monitoring?

Submitted by Laurent Lemaire on Mon, 12/01/2014 - 16:03

Titre	Is magnetic resonance imaging texture analysis a useful tool for cell therapy in vivo monitoring?
Type de publication	Article de revue
Auteur	Eliat, P A [1], Lechaux, D [2], Gervais, A [3], Rioux-Leclerc, N [4], Franconi, Florence [5], Lemaire, Laurent [6], Dazord, Leo [7], Catros-Quemener, Veronique [8], de Certaines, Jacques D. [9]
Editeur	International Institute of Anticancer Research
Type	Article scientifique dans une revue à comité de lecture
Année	2001
Langue	Anglais
Date	2001
Pagination	3857-60
Volume	21
Section	6A
Titre de la revue	Anticancer Research
ISSN	0250-7005
Mots-clés	Adenocarcinoma [10], Animals [11], CD8-Positive T-Lymphocytes [12], Colonic Neoplasms [13], Immunotherapy, Adoptive [14], Liver Neoplasms, Experimental [15], Lymphocyte Activation [16], Magnetic Resonance Imaging [17], Male [18], Monitoring, Immunologic [19], Monitoring, Physiologic [20], Rats [21]
Résumé en anglais	Assessment of anti-tumor treatment efficiency is usually done by measuring tumor size. Treatment may however induce changes in the tumor other than tumor size. Magnetic Resonance Imaging Texture Analysis (MRI-TA) is presently used to follow activated lymphocyte cell therapy. We used a 7T microimager to acquire high-resolution MR images of an experimental liver metastasis from colon carcinoma in rats treated (n = 4) or not (n = 3) with a cell therapy product. MRI-TA was then performed with Linear Discriminant Analysis and showed: i) a significant variation of tumor texture with tumor growth and ii) a significant modification in the texture of tumors treated with activated lymphocytes compared with untreated tumors. T2-weighted images or volume calculation did not evidence any difference. MRI-TA appears as a promising method for early detection and follow-up of response to cell therapy.
URL de la notice	http://okina.univ-angers.fr/publications/ua5694 [22]
Autre titre	Anticancer Res.
Identifiant (ID) PubMed	11911258 [23]

Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=9555](http://okina.univ-angers.fr/publications?f[author]=9555)
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=9556](http://okina.univ-angers.fr/publications?f[author]=9556)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=9557](http://okina.univ-angers.fr/publications?f[author]=9557)
- [4] [http://okina.univ-angers.fr/publications?f\[author\]=9558](http://okina.univ-angers.fr/publications?f[author]=9558)
- [5] <http://okina.univ-angers.fr/f.franconi/publications>
- [6] <http://okina.univ-angers.fr/l.lemaire/publications>
- [7] [http://okina.univ-angers.fr/publications?f\[author\]=9571](http://okina.univ-angers.fr/publications?f[author]=9571)
- [8] [http://okina.univ-angers.fr/publications?f\[author\]=9573](http://okina.univ-angers.fr/publications?f[author]=9573)
- [9] [http://okina.univ-angers.fr/publications?f\[author\]=7110](http://okina.univ-angers.fr/publications?f[author]=7110)
- [10] [http://okina.univ-angers.fr/publications?f\[keyword\]=8465](http://okina.univ-angers.fr/publications?f[keyword]=8465)
- [11] [http://okina.univ-angers.fr/publications?f\[keyword\]=964](http://okina.univ-angers.fr/publications?f[keyword]=964)
- [12] [http://okina.univ-angers.fr/publications?f\[keyword\]=10278](http://okina.univ-angers.fr/publications?f[keyword]=10278)
- [13] [http://okina.univ-angers.fr/publications?f\[keyword\]=10279](http://okina.univ-angers.fr/publications?f[keyword]=10279)
- [14] [http://okina.univ-angers.fr/publications?f\[keyword\]=10280](http://okina.univ-angers.fr/publications?f[keyword]=10280)
- [15] [http://okina.univ-angers.fr/publications?f\[keyword\]=10281](http://okina.univ-angers.fr/publications?f[keyword]=10281)
- [16] [http://okina.univ-angers.fr/publications?f\[keyword\]=10282](http://okina.univ-angers.fr/publications?f[keyword]=10282)
- [17] [http://okina.univ-angers.fr/publications?f\[keyword\]=6040](http://okina.univ-angers.fr/publications?f[keyword]=6040)
- [18] [http://okina.univ-angers.fr/publications?f\[keyword\]=968](http://okina.univ-angers.fr/publications?f[keyword]=968)
- [19] [http://okina.univ-angers.fr/publications?f\[keyword\]=10283](http://okina.univ-angers.fr/publications?f[keyword]=10283)
- [20] [http://okina.univ-angers.fr/publications?f\[keyword\]=10284](http://okina.univ-angers.fr/publications?f[keyword]=10284)
- [21] [http://okina.univ-angers.fr/publications?f\[keyword\]=975](http://okina.univ-angers.fr/publications?f[keyword]=975)
- [22] <http://okina.univ-angers.fr/publications/ua5694>
- [23] <http://www.ncbi.nlm.nih.gov/pubmed/11911258?dopt=Abstract>

Publié sur *Okina* (<http://okina.univ-angers.fr>)