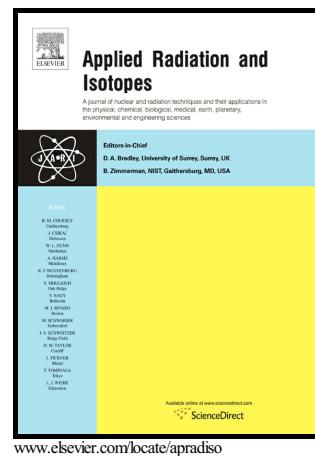


# Author's Accepted Manuscript

Comparison of [<sup>18</sup>F]Fluorocholine and [<sup>18</sup>F]Fluordesoxyglucose for assessment of progression, lung metastasis detection and therapy response in murine 4T1 breast tumor model

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**ACCEPTED MANUSCRIPT**

**Comparison of [<sup>18</sup>F]Fluorocholine and [<sup>18</sup>F]Fluorodesoxyglucose for assessment of progression, lung metastasis detection and therapy response in murine 4T1 breast tumor model**

Brígida Gomes de Almeida Schirmer<sup>1</sup>, Marina Rios de Araujo<sup>1</sup>, Marina Bicalho Silveira<sup>1</sup>, Jousie Michel Pereira<sup>1</sup>, Lorena Carla Vieira <sup>2,3</sup>, Clarice Gregório Alves<sup>1</sup>, William Tshisuaka Mbolela<sup>1</sup>, Andrea Vidal Ferreira <sup>1</sup>, Armando Silva-Cunha<sup>2</sup>, Sílvia Ligório Fialho<sup>3</sup>, Juliana Batista da Silva<sup>1</sup>, Carlos Malamut<sup>1\*</sup>

<sup>1</sup>**Unidade de Pesquisa e Produção de Radiofármacos, Centro de Desenvolvimento da Tecnologia Nuclear (CDTN), Belo Horizonte, Brazil.**

<sup>2</sup>**Faculdade de Farmácia – Universidade Federal de Minas Gerais (UFMG), Belo Horizonte, Brazil.**

<sup>3</sup>**Fundação Ezequiel Dias (FUNED), Belo Horizonte, Brazil.**

\*Address correspondence to: Carlos Malamut, Unidade de Pesquisa e Produção de Radiofármacos, Centro de Desenvolvimento da Tecnologia Nuclear – CDTN, Universidade Federal de Minas Gerais, Av. Antônio Carlos, 6627 – Pampulha, 31270-901 Belo Horizonte MG Brasil. Phone: +55(31) 3069 3101 . e-mail: malamut@cdtn.br

**Abstract**

The [<sup>18</sup>F]Fluorocholine ([<sup>18</sup>F]FCH) tracer for PET imaging has been proven to be effective for several malignancies. However, there are only a few studies related to its breast tumor applicability and they are still limited. The aim of this study was investigate the efficacy of [<sup>18</sup>F]FCH/PET compared to [<sup>18</sup>F]FDG/PET in a murine 4T1

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