## SYNTHESIS OF NEW DI- AND TRI-NORLABDANE COMPOUNDS WITH 2-AMINO-1,3-THIAZOLE UNITS

## Svetlana Blaja

Institute of Chemistry, 3, Academiei str., Chisinau MD-2028, Republic of Moldova e-mail: svetlana-blaja@mail.ru

Abstract. The present paper reports the synthesis of new hybrid terpeno-heterocyclic compounds belonging to di- and tri-norlabdane series. Starting from natural labdane diterpenoide (-)-sclareol, *via* its intermediates  $8\alpha$ -hydroxy-15,16-dinorlabd-13-one and sclareolide, two di-norlabdane and three tri-norlabdane, previously unreported compounds possessing 2-amino-1,3-thiazole structural units were obtained in three and four steps, respectively, with acceptable to good overall yields. The structures of newly obtained compounds were confirmed by means of spectral IR, <sup>1</sup>H and <sup>13</sup>C NMR analyses. It can be assumed that the synthesized compounds possess potential biological activity due to the presence of the heterocyclic unit. Additionally, the mechanism of 2-amino-1,3-thiazole ring formation is proposed.

Keywords: synthesis, di-norlabdane, tri-norlabdane, 2-amino-1,3-thiazole, cyclization reaction.

Received: 24 July 2019/ Revised final: 29 August 2019/ Accepted: 30 August 2019