

#### 4.2. Streszczenie w języku angielskim (Abstract)

In this paper the procedures for the transformation of naphthylamines by reactions with BuLi and/or <sup>t</sup>BuLi into 1- and/or 2-substituted naphthalenes were described. 1-, 2-Substituted naphthalenes were used as starting materials for the benzoquinazoline and benzoquinazolinone rings formation. The target amino-, formamido and sulfanyl benzoquinazolines were obtained *via* palladium or copper catalyzed arylation reactions of amines, amides and mercaptans. Finally, to determine anticancer potential of the benzoquinazolinone system, for selected amino- and amidobenzoquinazolines the cytotoxicity assays were performed.

**Keywords:** metalation, bromine-lithium exchange, Fries rearrangement, acylation, Weinreb amides, benzoquinazolinones, benzoquinazolines, Buchwald-Hartwig reaction, Pd-coupling, Cu-coupling, cytotoxicity, anticancer activity.