

To:

doc. Ing. Roman Čermák, Ph.D.

Univerzita Tomáše Bati ve Zlíně

Fakulta technologická

In Zlín 17.9.2013

Dear Professor Čermák:

Thank you for asking me to review the doctoral thesis of student **Pavel Kucharczyk** with title **Preparation and modifications of biodegradable polyesters for medical applications**.

The topic of this thesis is “hot” and many laboratories all over the world work on biodegradable systems. They are being used also in medical applications. Therefore biocompatibility of these materials is essential. Some residual metal catalyst could potentially cause harm to the body. Therefore it is necessary to investigate the reaction conditions during polycondensation when non-metal-based compounds are being used.

The student has performed excellent experimental work which is demonstrated by 11 articles in WOS with his name. In the thesis he is listing 4 papers out of which 3 articles have his name in the first position. This is enough to grant him title Ph.D.

I have only several minor comments.

Page 12: “Its comparison with other plastics is shown in Figure 5.” Really Fig. 5??? Where is the comparison?

Why do you show Fig. 6 and Fig. 11? Structure of PLGA is then shown twice.

Fig. 15: What do you mean by a circle connected to NH₂ or OH? Is it a benzene ring? This is rather unusual.

On the basis of above mentioned facts (after his oral presentation) I recommend **Pavel Kucharczyk** to obtain a Ph.D. title.

Sincerely,

prof. Ing. Petr Svoboda, Ph.D.