Berbamine Derivatives for the Treatment of Cancer

DESCRIPTION
Berbamine is a natural product derived from the plant, *Berberis vulgaris*, which has been used extensively in Asia and Europe for the treatment of various ailments. Berbamine is known to possess anticancer properties. Despite the widespread use of berbamine in traditional plant medicines, only a handful of derivatives have been reported.

This technology describes the synthesis of novel berbamine derivatives and production of pharmaceutical formulations of such derivatives for the purpose of treating cancer. Several of these novel berbamine derivatives exhibit significantly greater potency in killing a variety of cancer cells compared to berbamine. Importantly, this high potency is accompanied by very low toxicity.

KEY ASPECTS
- *Berberis vulgaris* extracts have been used safely for centuries to treat a wide array of ailments
- Berbamine is a 100% natural product known to possess anticancer properties
- Our novel berbamine derivatives are highly potent cancer-killing compounds with minimal toxicity
- Our synthesis method for berbamine derivatives reliably produces robust amounts of material

INTELLECTUAL PROPERTY

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<tr>
<th>Title</th>
<th>US Patent Application</th>
<th>Date Filed</th>
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<td>Berbamine Derivatives</td>
<td>12/783,535</td>
<td>5/19/2010</td>
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