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INSTITUTIONS

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Title: Applying domain expertise assessment to compound annotation for enhanced collaborations between chemists and biologists

Abstract Body: Medicinal chemistry and other fields require close collaboration between chemists and biologists. Because of their cross-disciplinary nature, the success of these collaborations is particularly dependent on making an optimal choice of collaborators. Unfortunately, finding and selecting potential collaborators remains a haphazard process. ResearchScorecard addresses this issue by applying data mining algorithms to comprehensive descriptors of academic researchers. By facilitating the assessment of the quality and volume of research data conveyed by databases, we believe that the combination of such “expertise data” with compound properties can enhance researchers' understanding of these compounds. This is enabled by ResearchScorecard's use of data gathered automatically from public sources, followed by heavy cleansing and semantic integration. Such an objective approach enables the approximate ranking of researchers based on their degree of domain expertise and their overall prominence. Some of the applications of automated domain expertise assessment to compound annotation will be discussed.