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## **Abstract**

PASTOR represents an innovative development in the study of resilience. This commentary highlights how PASTOR can both help clarify critical questions in and benefit from engaging with new research in personality science on behavioral flexibility across situations in addition to stability over time, as well as the relationship between resilience and posttraumatic growth.

## Main Text

The Positive Appraisal Style Theory of Resilience (PASTOR) outlined by Kalisch et al. (2014) represents an innovative development in the study of resilience, and captures another step in the paradigm shift from investigating disease to health (Jayawickreme, Forgeard, & Seligman, 2012). The goal of this commentary is to highlight how PASTOR can both help clarify critical questions in and benefit from engaging with new research in personality science in developing a coherent theory of resilience.

Recent advances in personality psychology have provided new perspectives on behavioral flexibility—and consistency—across situations (Fleeson & Jayawickreme, 2014). Such flexibility can serve as a tool for promoting resilience as defined by PASTOR. Despite the widespread belief that personality is stable, a large literature has revealed that on average, most people display moderate, mostly positive, amounts of trait change across the lifespan (Roberts, Walton, & Viechtbauer, 2006). Thus, individuals may be able to influence the degree to which their personality varies and changes (Edmonds, Jackson, Fayard, & Roberts, 2008). In addition, studies using experience sampling methods have demonstrated a surprisingly high level of variability in trait-

relevant behavior in everyday life, with most individuals acting in ways that run the entire continuum of each trait dimension (Fleeson, 2001). Furthermore, individuals have the ability to convincingly change their trait-relevant behavior (or personality "state") in the moment when instructed to do so (McNeil & Fleeson, 2006; Fleeson, Malanos, & Achille, 2002). Of note, people can change their levels of happiness by "enacting" personality states associated with happiness, such as extraversion (Fleeson et al, 2002; McNiel, Lowman & Fleeson, 2010; Zelenski, Santoro & Whelan, 2011). It should be noted that personality states have the same content as a trait but for shorter duration, and that states and traits are isomorphic in some regards. Part of having a trait is simply acting that way somewhat more often, and acting a certain way is similar to being that way (Jayawickreme, Meindl, Helzer, Furr & Fleeson, 2014).

Thus, personality traits are stable in the sense that there is reliable between-person variation in aggregate over time, and flexible in the sense that there is also substantial within-person variation in an individual's trait-relevant behavior (or personality states) depending on situational and internal cues (Fleeson, 2001, 2004). Understanding which specific personality traits (or "resilience-conducive" traits, as Kalisch et al. term them) might promote a flexible and positive reappraisal style as posited by PASTOR, and then harnessing behavioral variability to promote interventions aimed at developing and flexibly applying this style (Blackie, Roepke, Forgeard, Jayawickreme, & Fleeson, 2014; Fleeson & Jayawickreme, 2014) in a manner that ultimately leads to lasting changes in the cognitive machinery or mental skills that promotes a positive reappraisal style represents an exciting area for new research (see also Blackie, Jayawickreme, Forgeard, & Jayawickreme, 2014).

Relatedly, PASTOR has implications for helping researchers understand empirical overlap between resilience and closely related constructs. To illustrate this point, we propose that PASTOR may help clarify the relationship between resilience and posttraumatic growth —positive psychological change experienced as a result of the struggle with highly challenging life circumstances (Jayawickreme & Blackie, 2014). While resilience is generally defined as the absence of negative outcomes during or following potentially harmful circumstances (e.g. Seery, Holman & Silver, 2010), posttraumatic growth corresponds to increases in positive outcomes after adversity (We note that Kalish et al.'s definition of resilience conflates these two distinctions, as the define resilience as "any trajectory that eventually leads to levels of functioning that are comparable or even better than at the outset"). Posttraumatic growth is purported to occur in five distinct life domains - individuals report experiencing a greater appreciation of life, more intimate social relationships, heightened feelings of personal strength, greater engagement with spiritual questions, and the recognition of new possibilities for their lives (Tedeschi & Calhoun, 2004). Posttraumatic growth is generally viewed as both a set of processes (e.g., coming to terms with adversity, identifying and experiencing cognitive, behavioral, and affective changes) and a set of outcomes (e.g., great satisfaction with life, wisdom).

In spite of the theoretical differences between resilience and posttraumatic growth, empirical evidence has shown that people high in traits such as cognitive complexity, self-efficacy, and dispositional hope are more likely to report growth (Tennen & Affleck, 1998; Tedeschi & Calhoun, 1995). In other words, people who report growth may in fact be those who were more resilient to begin with. As a result, much

debate remains concerning the exact nature of posttraumatic growth --- an issue that the PASTOR framework may help clarify. To date, most of the scholarship in this area has focused on documenting self-reported retrospective changes (i.e., perceptions of past changes). Ongoing and future research in this area is seeking to determine whether or not retrospective self-perceptions of change also correspond to changes in behavior and cognition measured longitudinally (Jayawickreme & Blackie, 2014; Roepke, Forgeard, & Elstein, 2014; Schueller, Jayawickreme, Blackie, Forgeard, & Roepke, 2015). This research can tease out the degree to which resilience precedes growth, and the extent to which both resilience and growth are brought about by, or associated with, the flexible and positive reappraisal style as proposed by PASTOR. Thus, PASTOR has critical implications for meaningfully distinguishing between the two constructs and pushing further the study of psychological functioning under conditions of adversity.

In addition, and related to this, PASTOR can help researchers design thoughtful experiments and/or interventions aimed at promoting growth following adversity. More specifically, future research may examine the usefulness of fostering selected personality states (as described above). For example, a review of past research suggested that openness to experience, extraversion, and agreeableness (candidate "resilience-conducive" traits) predict adaptive outcomes following adversity (Linley & Joseph, 2004). Future research could assess whether experimental interventions promoting open, extraverted, and/or agreeable behaviors may lead to positive and flexible cognitive styles described by PASTOR, and in turn, resilience or growth.

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