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Positive adult education learned helplessness and the Pygmalion effect.

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Abstract: Positive education is seen as a transformative methodological approach capable of improving the act of teaching and learning and, above all, essential for the development of students' personal skills and competences. However, few studies have been carried out on this subject in the field of lifelong and adult education. This study works with a sample of 399 people over 16 years of age and students of the Universidad Popular de Dos Hermanas in order to show the relationship between the Pygmalion effect and learned helplessness in the process of acquiring knowledge in adulthood. In this way, three tools were used: a questionnaire that showed teachers' perceptions of students' qualities and behaviour and two that provided information on self-concept, self-esteem, personal and social skills and other variables directly related to emotional intelligence and positive education.

It shows how exposure to negative operational conditioning factors influences the psychosocial and socio-educational development of students in every possible way, while on the other hand, it indicates the importance of positive education to compensate for this phenomenology by improving the development and growth of those who study and participate in non-formal education.

Likewise, the factorial interrelation of both positive and negative conditioning factors and their incidence on learning is shown; the importance of neutralising the negative components and strengthening the positive reinforcement and the role played by the community and education professionals as catalysts and behavioural modulators at any stage of learning and age group for the achievement of the objectives of the student and of education itself in a broad sense.

Keywords: Positive education, Pygmalion effect, learned helplessness, lifelong education, adult education.

1. Introduction

The aim of this study is to provide keys for the improvement of the teaching-learning process based on two basic ideas: Learned Helplessness and the Pygmalion Effect. Both are juxtaposed situations that interfere in the results of the learner and from which education professionals can establish mechanisms for educational improvement in a holistic sense for the learner, for themselves and for the community.

With this, the aim is to show the value of positive education as a guiding and transforming element, not only in the teaching-learning process, but also in the quality of personal and community life, as well as in social cohesion. That is, taking into account the evidence of how emotional intelligence and personal and social skills training in turn have a positive impact on the social climate, the classroom, interpersonal relationships, inclusion, motivation, prevention of disruptive behaviour and attitudes, etc. [1,2,3,4,5]. And, following the postulates of operant conditioning which holds that behaviour can be
modified by reinforcement determining their effects on learning and response behaviour [6; we find the basis for a methodological model that allows the modulation of those elements involved in the cognitive and academic processes that are affected by internal [7] and external variables [8,9] favouring or neutralising personal growth. This shows the symbiotic relationship between emotions and the teaching-learning process [10].

In the 1960s, [11] Seligman coined the term learned helplessness to show how the use of negative reinforcement was key to overriding the capacity for reaction and behavioural shaping in animals, which was later tested in humans [12, 13]. In this way, it was observed that those who had been exposed to aversive situations tended to avoidance and ultimately to the belief that no matter how they operated, no positive outcome would be obtained. Thus, it is a model of uncontrollable stress that produces emotional distress [14, 15], and as a coping deficit with characteristics of depression [16, 14] in the face of aversive but avoidable situations [17].

Its conceptualisation has evolved over the years, resulting in several theses over time. In its beginnings, this theory was used to expose both animal behaviour [18,19,20,21,22,23,24,25] and human behaviour in learning and coping processes, being part of an experiment in behavioural situations, passing to the present day as a model that generates many other theories in areas such as education or health and related to psychological problems in human beings.

For [26] Peterson, Maier and Seligman, the theory of learned helplessness constitutes three essential elements: contingency, cognition and behaviour.

- Contingency: is the objective correspondence between an individual's action and the outcomes derived from experience. Contingency can be described in two constructs: controllability and lack of control.

- Cognition: is understood as the way in which a person perceives, explains and extrapolates contingency [27]. The process of cognition is composed of several stages in which the person first understands the contingency.

- Behaviour: the observable consequences of non-contingency and the individual's cognitions about it [27].

Considering this, by definition, learned helplessness studies measure the passivity of an individual's activity in a situation different from the one in which uncontrollability was first encountered.

On the other hand, this model argues that there are other consequences of a person's expectations of future helplessness: cognitive retardation, low self-esteem, loss of aggression, immunological changes and physical illness [26].

Its opposite is the Pygmalion Effect, based on the Pygmalion or Fulfilled Prophecy Myth, taken by cognitivism to explore how positive reinforcement and realistically displayed expectations of success influence the learner to achieve success, thereby improving outcomes. From the above, we can see the importance of any type of conditioning and emotional learning for the development of the person, taking into account the transversal axis: motivation-cognition-emotion, which in turn connects with brain dysfunctions caused by the stimulus.

This approach received impetus from the experiment conducted by [28] Robert Rosenthal and Lenore Jacobson, where the expectation of an experimenter strongly influenced the way subjects behaved in different situations.

For [29] Rosenthal, there are three factors that influence the Pygmalion effect:

- Climate: a warmer climate is created for those students from whom more is expected.

- Input: teachers teach more things to students than they expect more.

- Feed-back: the more is expected from students, the more praise and positive reinforcement there is a direct relationship between the more praise and positive reinforcement.

Sánchez Hernández and López Fernández [30] define it as follows: The Pygmalion effect requires three aspects: firmly believing in a fact, having the expectation that it will be fulfilled and accompanying it with messages that encourage its achievement.
We know the Pygmalion effect as the prophecy of self-realisation, which can have both an external and an internal origin. Success, with respect to this subject, lies in the capacity that both subjects, as well as the people around them, have to be able to create positive expectations, firmly believing in them and transmitting them with the same intensity, turning them into a powerful stimulus.

Therefore, and on the basis of positive education in which the present analysis is embedded, we show how to approach the teaching-learning act with adults, taking into account the different conditioning models that the learner brings internalised, as well as the elements contemplated in the model of Goleman, Mayer et al. [31] such as: emotional intelligence, self-esteem, resilience, self-efficacy and empathic attitudes; and on the other hand, symptoms such as anxiety and stress [32,33,34,35,36]. At the same time, it is evident how the power of contextual elements [37,38], reinforcement [39], motivation and expectations about reinforcement [40,41,42,43,44] will significantly influence meaningful learning [45], especially positive feedback [46].

Education based on emotional intelligence is necessary for students to be able to positively use and control their emotions, with a positive coping and stressful situations [47] and triggers [48], improving their psychological well-being [49]; which in turn promotes a feeling of belonging to a group [50,51,52], greater personal, organisational and social success [53,54], with a strong positive impact on the community [55].

2. Materials and Methods

This research provides clues for the improvement of the teaching-learning process based on two basic ideas: learned helplessness and the Pygmalion effect, with two specific objectives:

- To expose whether there are deficiencies related to social skills and self-esteem and, therefore, learned helplessness.
- To show whether behaviour correlates with learned helplessness or whether it can be modified to improve learning and reduce psychosocial risks.
- To show the keys of the Pygmalion effect to compensate the negative effects of learned helplessness as a scaffolding for the improvement and development of personal and social skills and empowerment.

With regard to the methodology established to carry out the research, in order to extract all the necessary information related to such broad study questions, we agreed on a paradigmatic combination. Thus, the methodology is mixed qualitative and quantitative [56].

The research is made up of three compilations, on the one hand, a specific questionnaire for teachers (28 persons), where the behaviour of students is collected, with a total of 15 items, gathering the information related to the 399 persons that make up the sample. This was completed by all the teaching staff at the centre, in order to ascertain the influence of these variables in an objective and triangulated manner.

On the other hand, a questionnaire on self-esteem and social skills, consisting of 15 items each, was reformulated for the students of the Universidad Popular de Dos Hermanas. This institution was set up in the city in 1992 and its area of work is the education of adults on the basis of "Education for all" and "throughout life"; working in turn on different areas in non-formal education: socio-cultural animation and personal and community development. It should be noted that among its general objectives are, among others: to facilitate access to education for those who for various reasons have been left out of the education system; to improve the socio-labour profile of those who attend; to promote education in democratic values; to develop transversal strategies for inclusive education, taking into account diversity and from a gender perspective; to enhance personal and social skills through learning; and to promote the empowerment and awareness of the individual to improve the quality of life at all stages of adulthood and old age. [56]
The questionnaire explained the purpose of the research, specifying that responses would be anonymous. Of the 1356 people enrolled in the 2020-2021 academic year, a total of 399 successfully completed the questionnaire, with the sample having a confidence level of 95%. Thus, the sample was made up of 399 people over 16 years of age, proportionally representing the institution’s target public, following quotas of gender, age, experience at the university, areas of knowledge and origin of the students, in order to maintain coherence with the reality of the centre itself.

The questionnaire is a reformulation and adaptation of the questionnaire for women by Castillo, S., et al [59], with the addition of other questions divided into appendices. It has tried to combine personal skills and experiences, while questionnaires on self-esteem, social skills, social participation and interests and habits have been introduced. In this way, the same tool can be used to assess their concerns, well-being and health, aptitudes, shortcomings and opportunities.

For data processing and analysis, all the information in the database was entered into the statistical programme SPSS, version 24 [60].

The validity of the questionnaires is supported by previous research by their creators; likewise, as it is a reformulation, we evaluated the coherence and internal consistency of the tool. On the other hand, Cronbach's alpha coefficient [61] was used to study the reliability of the tool, with a value of 0.941, 0.831 and 0.805 respectively. Following the general recommendation of George and Mallery [62], it can be concluded that the tool used is very suitable for the study, as the items measure the same construct and are highly correlated.

In this process of data collection, triangulation has been fundamental in carrying out the research. Firstly, the data provided by the Universidad Popular itself in terms of statistics and reports were taken into account. Based on this, the identification and analysis of triggering situations was carried out, as well as the selection and adaptation of techniques, tools and instruments for the collection and elucidation of data.

The unstructured interviews with teachers have been key throughout the analysis. With these, it has been possible to glimpse, assert and sometimes refute ideas that had been brought to light through the rest of the techniques. The first technique guided action with teachers and the development team, as well as with pupils.

3. Results

We are now in the central phase of the process, where, after using the tools mentioned above, the necessary information is compiled. In order to elucidate the data in line with the proposed objectives, descriptive analyses were carried out to find out the socio-demographic characteristics, social skills, self-esteem and behaviour in the teaching-learning scenario. Within these descriptive analyses, the frequency and cumulative percentages were verified, as well as cross-checking tables with the chi-square test to clarify possible relationships between variables. The reliability of the internal consistency of the study factors was calculated by means of Cronbach's alpha coefficient.

The sample consisted of 28% men and 72% women, with the widest age range being 45 to 54 years for women and 55 to 64 years for men. Of these, 36.1% are currently working and only 13.2% are retired or pensioners; 50.7% are unemployed. With regard to the level of studies, 20.1% have no qualifications, 19.5% have primary education, 28% have secondary education or BUP, 23% have studied vocational training and 10% have higher education.

The first set of data, relating to social skills, shows significant and revealing frequencies regarding pupils' self-perception, as shown below:

- 65.4% say they do not recognise their chances of success, compared to 100% who claim to recognise their limitations.
- 80.2% do not have a positive self-concept and say that they do not know how to identify their abilities and aptitudes. At the same time, 91.2% say they do not know how other people perceive them.
- 100% show willingness to make an effort to train their social skills, respect their rights and the rights of others, know that they should behave differently depending on the situation and are able to put themselves in other people’s shoes.
- 75% do not clearly communicate their wishes, opinions, feelings and goals. 94.1% say that they achieve their goals to the extent that they depend on them. 98% say that they try to maintain or improve their relationship with others in extreme situations. 64% are not able to refuse requests and 91% do not express their feelings without difficulty.

Table 1. Percentage of social skills

| PERCENTAGE | A  | B  | C  | D  | E  | F  | G  | H  | I  | J  | K  | L  | M  | N  | O  |
|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| YES        | 34,6 | 100 | 19,8 | 8,8 | 19,8 | 100 | 100 | 25,0 | 94,1 | 98,0 | 98,0 | 100 | 36,0 | 9,0 |
| NO         | 65,4 | 80,2 | 91,2 | 80,2 | 75,0 | 5,9 | 2,0 | 2,0 | 64,0 | 91,0 |

A: Possibilities of success. B: Personal limitations. C: Self-concept. D: Heteroconcept. E: Skills. F: Interests. G: Social skills. H: Rights. I: Communication. J: Objectives. K: Extreme situations. L: Behavior. M: Empathy. N: Reject requests. O: Express feelings

With regard to the self-esteem questionnaire, high frequencies showing weakness and learned helplessness, as well as those that become basic pillars for positive reinforcement are noteworthy, as shown in table 2.

Table 2. Percentage of self-esteem.

| PERCENTAGE | A  | B  | C  | D  | E  | F  | G  | H  | I  | J  | K  | L  | M  | N  | O  |
|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Strongly agree | 88,0 | 6,3 | 3,7 | 30,5 | 46,3 | 24,6 | 4,1 | 87,6 | 15,1 | 15,1 | 46,3 | 47,8 | 7,8 | 16,1 | 39,8 |
| In disagreement | 2,2 | 29,0 | 7,1 | 26,3 | 60,5 | 3,4 | 7,1 | 5,6 | 75,4 | 26,1 | 7,1 |
| Agree | 12,0 | 93,7 | 94,1 | 40,5 | 46,6 | 49,0 | 35,4 | 12,4 | 84,9 | 81,5 | 46,6 | 46,6 | 16,8 | 57,8 | 53,2 |

A: Appreciation. B: Failure. C: Qualities. D: Dignity. E: Pride. F: Positive attitude. G: Satisfaction. H: Value. I: Under-value. J: Inequality. K: Change of attitude. L: Hides feelings. M: Discomfort. N: Fear of losing sympathy. O: Fear of rejection

Taking into account the nature and impact of the variables, we segregated between risk factors and safety factors to summarize the influence of both groups in the teaching-learning process, as indicated in Table 3.

Table 3. Percentage safety factors.

| Safety Factors | Percentage |
|----------------|------------|
| Person to be appreciated | 88% |
| No thoughts of failure | 93,7% |
| Believes he has good qualities | 97,8% |
| Proud of oneself | 92,9% |
| No discomfort with compliments | 75,4% |

In relation to risk factors, 30% do not feel that they are treated with the same dignity as the rest, 26.3% of the participants state that they do not maintain a positive attitude towards themselves, while 60.5% do not feel satisfied with herself. 87.6% strongly
agree that it should be valued in addition to the 12.4% who claim to agree. On the other hand, 84.9% agree that sometimes they feel that it is worthless and the remaining 15.1% strongly agree.

Regarding the perception of their rights, 96.6 agree and strongly agree that they feel that they have fewer rights than other people.

Attending to assertiveness we find that the:

- 92.9% find it difficult to ask another person to change her behavior if it bothers them.
- 94.4% hide their feelings for fear of rejection.
- 83.9% hide ideas and opinions for fear of losing the sympathy of other people.
- 92.9% fear rejection reactions from people.
- 24.6% believe they receive praise for pity or disability.

On the other hand, we show the data related to the behavior of the students provided by the teaching staff. In the items "disposition", "desire", "attitude", "intention", "interest" and "motivation" we find the same frequencies obtaining 80% values of almost always and always. Regarding "understanding" and "expression" we observed a cumulative frequency between almost never and regular of 34.6%; as well as 49% participation in the same scores. Regarding "aptitude" we find 34.45% with almost always and 65.6% always; and "behavior" obtained 43.4% almost always and 45.9% always; showing the item "learning" more frequently, obtaining 33.7% almost always and 66.3% always.

| Table 4. Percentage Perception of Teachers |
|-------------------------------------------|
| **Percentage**                           |
| A  | B  | C  | D  | E  | F  | G  | H  | I  | J  | K  | L  | M  | N  | O  | P  |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Rarely          | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 15.1| 15.1| 3.7 | 8.5 | 8.5 | 15.1| 32.9| 21.2|
| Regular         | 13.7| 13.7| 13.7| 13.7| 13.7| 13.7| 19.5| 19.5| 7.1 | 22.7| 30.2| 22.0| 23.7| 6.6 |
| Usually         | 39.3| 39.3| 39.3| 39.3| 39.3| 39.3| 27.6| 27.6| 34.4| 43.4| 39.5| 46.1| 40.7| 20.2| 46.8| 33.7|
| Always          | 40.7| 40.7| 40.7| 40.7| 40.7| 40.7| 37.8| 37.8| 65.6| 45.9| 29.3| 15.1| 22.2| 10.7| 25.4| 66.3|

A: Available. B: You win. C: Attitude. D: Intent. E: Interest. F: Motivation. G: Compression. H: Expression. I: Aptitude. J: Behaviour. K: Inventia. L: Restlessness. M: Communication. N: Over traction. O: Participation. P: Learning

4. Discussion

Taking into account the data presented in the results, we postulate as main problems and/or needs, factors that were shown as variables of learned helplessness (unknown personal and social skills, lack of self-regulation, self-esteem and self-concept, inequality and lack of empowerment) to which we add proposals of attention for their resolution such as training in personal and social skills, training and coaching for the promotion of empowerment, recognition of capacities and aptitudes, learning in equal opportunities.

These problems are the key elements in order of impact in the frequency tables after data processing. Factors that correlate by their nature and that are framed within the same phenomenon with different stages or branches. Therefore, and taking into account the amount of data processed (both qualitative and quantitative), for the general overview it should be noted that the lack of formal training, role appropriation, diminished personal and social skills, low self-concept, self-esteem and self-regulation and low level of assertiveness for change are factors to be improved in order to achieve optimal levels of health and growth. In this way it is shown that, despite high levels of learned helplessness, the teacher's assessment of the items "willingness", "desire", "attitude", "intention", "interest", "motivation", "attitude" and "aptitude" are crucial, based on those factors of counter security, to ensure that 100% of the students achieve a positive value in learning.
We show in our research the importance of motivation and the elements that compose it that have been reflected previously: both personal and environmental, expectations, self-efficacy, results, environment and social relations [63,64,65,66].

We also found that refocusing based on interests and external reinforcement improves student motivation in all facets of their lives [65]. With regard to conditioning factors [67], we should focus on those that will promote extrinsic motivation in accordance with positive education. Thus, we find that motivational, emotional and social elements are directly related to academic performance [68,69].

On the one hand, it is shown that the maintenance of a positive self-concept [70, 71,72] and self-esteem [73,74,75] are vital because of their direct impact on motivation.

In other words, the positive relationship between self-concept [76,77,78], and academic performance, as well as between self-esteem and performance [79, 74,80], is ratified.

On the other hand, with regard to emotional factors [81,82,83], understood as: emotional intelligence, emotional competence and emotional well-being; added to the social characteristic of the human being and the act of teaching-learning itself, it highlights the need to maintain a trained personal and social interaction where the control of the internal locus allows the self-control of emotions and feelings [84,85,86]. Training and improvement of social intelligence, social competence and social skills is also necessary [87,88,89,90]. Similarly, there is a directly proportional relationship between academic performance and emotional intelligence [91, 92, 93].

As for the limitations of the research, on the one hand, the size of the sample, despite being representative and reliable, cannot be transferred to the bulk of the population as it represents the universe of students at the Universidad Popular. On the other hand, we cannot know the aetiology of the factors triggering learned helplessness in each of the cases in detail, but only verify that such dysfunction exists. Similarly, the longitudinal effect has to be taken into account, i.e. given the time of the research and the specificity of the analysis, we cannot show in this article the comparative pretest and posttest or control groups showing how the Pygmalion effect affects from baseline to completion.

However, these difficulties and limitations encountered are the threshold for future research. In such a way, research is intended to know in depth what the triggers of learned helplessness in adults are and to know systematically how positive education affects behavioural modification taking into account other variables.

5. Conclusions

Both the literature and the data extracted through the present research assert the importance of the impact of continued exposure to factors that inhibit intrinsic motivation. In the same way, we show how learned helplessness can be acquired independently of the personal and psychosocial profile, so that life history and the situational elements that affect personality development are key to growth and development in any environment. Therefore, it is shown that in the same way that external motivation influences internal motivation in a negative way, hindering and/or limiting development, the Pygmalion effect, i.e. positive support becomes an engine of change for restructuring and cognitive refocusing for the optimal acquisition of tools and skills for life.

It is noteworthy that a large number of people are able to recognise their limitations and not their possibilities for success claim not to have a positive self-concept and show low levels of assertiveness. On the other hand, they claim not to value themselves enough, which shows a diminished self-esteem and reveal in their answers how some social skills corresponding to participation and personal empowerment are dysfunctional. However, it is shown that the teachers’ perception of the students does not correspond to the initial idea that the students themselves have about themselves, and that through positive reinforcement, participation in educational actions and their learning achievements are fruitful. In other words, we find that it is common to show such learned help-
lessness in adulthood as a framework learned throughout life through conditioning and reinforcement.

Therefore, taking into account the association between emotions and attention, willingness to learn or behavioural self-regulation [94; the relationship between personal well-being and emotional intelligence and academic performance [95], as well as the importance of satisfactory social relationships and social skills and performance [96,97], it is necessary to join efforts towards a new methodological approach based on positive education from childhood to neutralise these factors, thus achieving that in the evolutionary cycle, the adult person not only has access to new knowledge and learning, but that it is configured as a continuum of constant improvement and growth in all spheres of life, thus achieving a society whose emotional health is optimal and where the role of education is, in a broad sense, the perfectibility of the human being.

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References

1. Diekstra, RFW. Effectiveness of school-based social and emotional education programmes around the world. In Social and emotional education: an international analysis; Foundation Marcelino Botín: Santander, Spain. 2008; pp. 255–312. [Google Académico]
2. Durlak, JA; Weissberg, RP; Dymnicki, AB; Taylor, RD; Schellinger, KR. The impact of improving students’ social and emotional learning: a meta-analysis of universal school-based interventions. Child Dev. 2011, 82, 405–432. [Google Académico] [CrossRef]
3. Filella-Guiu, G.; Pérez-Escoda, N.; Agulló, MJ; Oriol, X. Results of the application of an emotional education programme in primary education. Estud. Sobre Educ. 2014, 26, 125–147. [Google Académico]
4. Lübbe, L.; Pinquart, M.; Schweniger, M. The role of flexibility in the realisation of inclusive education. Sustainability 2021, 13, 4452. [Google Scholar] [CrossRef]
5. Mahoney, JI; Durlak, JA; Weissberg, RP. An Update on Social and Emotional Learning Outcomes Research. Phi Delta Kappan 2018, 100, 18–23. [Google Académico] [CrossRef]
6. Oriola, S.; Tey, A.; Pérez-Escoda, N. Emotions and time management in learning. In Time Management in Higher Education: Practices of Efficiency and Procrastination; Calderón, C., Gustems, J., Eds.; Ediciones de la Universitat de Barcelona: Barcelona, España, 2020; pp. 11-20. [Google Académico]
7. Edel Navarro, R. Academic Achievement: Concept, Research and Development. REICE Rev. Iberoam. Sobre Calid. Efic. Y Cambio En Educ. 2003, 1, 16. [Google Académico]
8. Mayorquín, EA; Zaldívar, A. Parental involvement in the academic achievement of primary school students. Literature review. PASEO. Rev. Iberoam. Para La Investig. Y El Desarro. Educ. 2019, 9, 868–896. [Google Académico] [CrossRef]
9. Pros, RC; Muntada, MC; Martín, MB; Busquets, CG. Extracurricular activities and academic performance in primary school pupils. EUR. J. Investig. Psicología de la salud. Educ. 2015, 3, 87–97. [Google Académico] [CrossRef]
10. Cohen, J. (Ed.) Educating hearts and minds; ASCD: Alexandria, VA, EE. UU, 1999. [Google Scholar]
11. Seligman, M. E., & Maier, S. F. Failure to escape traumatic shock. Journal of Experimental Psychology, 1967, 74(1), 1–9. https://doi.org/10.1037/h0024514[Google Scholar]
12. Hiroto, D. S. Locus of control and learned helplessness. *Journal of Experimental Psychology, 1974*, 102(2), 187–193. [Google Scholar]

13. Hiroto, D. S., & Seligman, M. E. Generality of learned helplessness in man. *Journal of Personality and Social Psychology, 1975*, 31(2), 311–327. [Google Scholar]

14. Torres, A., Robert, A., Tejero, A., Boget, T. y Pérez, J. Indefensión aprendida y dependencia de sustancias. *Trastornos Adictivos, 2006*, 8(3), 168-75. [Google Scholar]

15. Velbinger, K., De Vry, J., Jentzsch, K., Eckert, A., Henn, F., Müller, W.E. Acute stress induced modifications of calcium signaling in learned helpless rats. *Pharmacopsychiatry, 2000*, 33: 132–137. DOI: 10.1055/s-2000-11220 [Google Scholar]

16. Keefe, F. J., Kashikar-Zuck, S., Robinson, E., Salley, A., Beaufre, P., Caldwell, D., Bauncom, D. and Haythornthwaite, J. Pain coping strategies that predict patients’ and spouses’ ratings of patients’ self-efficacy. *Pain, 1997*, 73: 191–199. [Google Scholar]

17. Vollmayr, B., Gass, P. Learned helplessness: unique features and transnational value of a cognitive depression model. *Cell Tissue Res 354, 2013*, 171–178. [Google Scholar]

18. Braud, W., Wepman, B. & Russo, D. Task and species generality of the “helplessness” phenomenon. *Psychon Sci, 1969*, 16, 154–155. [Google Scholar]

19. Maier, S. F., & Testa, T. J. (, Failure to learn to escape by rats previously exposed to inescapable shock is partly produced by associative interference. *Journal of Comparative and Physiological Psychology, 1975*, 88(2), 554–564. [Google Scholar]

20. Overmier, J. B. (). Interference with avoidance behavior: Failure to avoid traumatic shock. *Journal of Experimental Psychology, 1968*, 78(2, Pt.1), 340–343. [Google Scholar]

21. Overmier, J. B., & Seligman, M. E. (, Effects of inescapable shock upon subsequent escape and avoidance responding. *Journal of Comparative and Physiological Psychology, 1967*, 63(1), 28–33. [Google Scholar]

22. Padilla, A.M., Padilla, C., Keteter, T. et al. Inescapable shocks and subsequent escape/avoidance conditioning in goldfish, *Carassius auratus. Psychon Sci, 1970*, 20, 295–296. [Google Scholar]

23. Seligman, M. E. P. Helplessness: On depression development and death. San Francisco: WH Freeman. 1975 [Google Scholar]

24. Seward, J. P., & Humphrey, G. L. (1967). Avoidance learning as a function of pretraining in the cat. *Journal of Comparative and Physiological Psychology, 63*(2), 338–341. [Google Scholar]

25. Seligman, M. E., & Maier, S. F. Failure to escape traumatic shock. *Journal of Experimental Psychology, 1967*, 74(1), 1–9. [Google Scholar]

26. Peterson, C., Maier, S. F. y Seligman, M. E. Learned helplessness: A theory for the age of personal control. New York: Oxford University Press, 1993. [Google Scholar]

27. John-Langba, J. The relationship of sexual and gender-based violence (SGBV) to sexual-risk behaviors among refugee women in Botswana: The mediating role of depression. University of Pittsburgh. 2004 [Google Scholar]

28. Rosenthal, R., Jacobson, L. Pygmalion in the classroom. *Urban Rev, 1968*, 3, 16–20. [Google Scholar]

29. Rosenthal, R. (). The Pygmalion effect and its mediating mechanisms. In J. Aronson (Ed.), *Improving academic achievement: Impact of psychological factors on education*, 2002, pp. 25–36. Academic Press. [Google Scholar]

30. Sánchez, M. y López, M. Pigmalión. Editorial Universidad Autonómica de la Ciudad de México. México D.F. 2005 [Google Scholar]

31. Goleman, D. *Emotional intelligence;* Bantam: Nueva York, NY, EE. UU., 1995. [Google Scholar]

32. Cañero, M; Mónaco, E.; Montoya, I. Emotional intelligence and empathy as predictors of subjective well-being in university students. *EUR. J. Investig. Sanal. Psychol. Educ. 2019*, 9, 19–29. [Google Académico] [CrossRef]

33. Extremera, N.; Durán, A.; Rey, L. The moderating effect of trait meta-state of mind and perceived stress on life satisfaction. *Pers. Individ. Dif. 2009*, 47, 116–121. [Google Académico] [CrossRef]

34. Augusto-Landa, JM; López-Zafra, E.; Pulido-Martos, M. Perceived emotional intelligence and stress coping strategies in primary school teachers: Proposal of an explanatory model with structural equations. (SEM)). *Rev. Psicol. Soc. 2011*, 26, 413–425. [Google Académico]

35. Tiana, A. Analysis of basic competences as a curricular nucleus in Spanish compulsory education / Analysis of key competences as a curricular nucleus of compulsory education in Spain. *Bordón 2011*, 63, 63–75. [Google Académico]

36. Atienza, FM. Self-esteem, Emotional Intelligence, Motivation and Psychological Well-being of the Students of the University of Las Palmas de Gran Canaria / Self-esteem, Emotional Intelligence, Motivation and Psychological Well-being of the Students of the Univ. Doctor. Thesis, University of Las Palmas de Gran Canaria, Gran Canaria, Spain. [Google Académico] [CrossRef]

37. Bercovitz, J.; Feldman, M. Academic entrepreneurs: organisational change and the individual level. Organo. Sci. 2008, 19, 69–89. [Google Académico] [CrossRef]

38. Rizzo, U. Why do scientists create academic spin-offs? The influence of context. J. Technol. Transf. 2015, 40, 198–226. [Google Académico] [CrossRef]

39. Burde, W.; Blankertz, B. Is the reinforcement locus of control a predictor of brain-computer interface performance? In Proceedings of the 3rd International Brain-Computer Interface Workshop and Training Course, Graz University of Technology, Graz, Austria, 2006; pp. 76–77. [Google Académico]
96. Trentacosta, CJ; Izard, CE; Mostow, AJ; Bien, SE. Emotional competence and attention span of children in early primary school. *Sch. Psychol. Q.* 2006, 21, 148-170. [Google Académico] [CrossRef]

97. McKown, C.; Russo-Ponsaran, NM; Allen, A.; Johnson, JK; Warren-Khot, HK. Socio-emotional factors and academic results among elementary-age children. *Desarrollo infantil infantil* 2015, 25, 119-136. [Google Académico] [CrossRef]