

## S1: Appendix A

*Bivariate latent correlations per country. Each table section contains coefficients for two countries separated by the diagonal. Values in bold letters represent significant correlations at  $p < .05$ .*

	Austria, Cyprus								
	1	2	3	4	5	6	7	8	9
1. Competence	-	<b>.54</b>	<b>.49</b>	<b>.39</b>	<b>.55</b>	<b>.73</b>	.22	<b>-.46</b>	<b>-.23</b>
2. Autonomy	<b>.55</b>	-	<b>.33</b>	<b>.35</b>	<b>.43</b>	<b>.43</b>	<b>.34</b>	-.19	-.02
3. Relatedness	<b>.44</b>	<b>.28</b>	-	<b>.33</b>	<b>.34</b>	<b>.42</b>	.12	<b>-.38</b>	<b>-.23</b>
4. Positive emotion	<b>.69</b>	<b>.46</b>	<b>.49</b>	-	.17	.14	.07	-.03	-.06
5. Intrinsic learning motivation	<b>.66</b>	<b>.46</b>	<b>.26</b>	<b>.57</b>	-	<b>.68</b>	<b>.29</b>	<b>-.30</b>	<b>-.19</b>
6. Engagement	<b>.48</b>	<b>.32</b>	<b>.21</b>	<b>.32</b>	<b>.56</b>	-	.23	.14	-.02
7. Persistence	<b>.63</b>	<b>.35</b>	<b>.35</b>	<b>.41</b>	<b>.56</b>	<b>.67</b>	-	<b>-.54</b>	-.18
8. Procrastination	<b>-.54</b>	<b>-.27</b>	<b>-.25</b>	<b>-.34</b>	<b>-.43</b>	<b>-.38</b>	<b>-.71</b>	-	.16
9. Age	<b>-.14</b>	<b>-.06</b>	<b>-.20</b>	<b>-.19</b>	<b>-.10</b>	<b>.02</b>	<b>-.16</b>	<b>.11</b>	-

*Note.* Correlations for Austria ( $N = 19,337$ ) are below the diagonal and correlations for Cyprus ( $N = 141$ ) are above the diagonal.

	Finland, Germany								
	1	2	3	4	5	6	7	8	9
1. Competence	-	<b>.46</b>	<b>.38</b>	<b>.63</b>	<b>.66</b>	<b>.55</b>	<b>.68</b>	<b>-.56</b>	<b>-.12</b>
2. Autonomy	<b>.50</b>	-	<b>.20</b>	<b>.37</b>	<b>.40</b>	<b>.23</b>	<b>.35</b>	<b>-.32</b>	-.04
3. Relatedness	<b>.47</b>	<b>.27</b>	-	<b>.39</b>	<b>.13</b>	<b>.18</b>	<b>.25</b>	<b>-.18</b>	-.07
4. Positive emotion	<b>.78</b>	<b>.49</b>	<b>.57</b>	-	<b>.49</b>	<b>.26</b>	<b>.34</b>	<b>-.35</b>	<b>-.18</b>
5. Intrinsic learning motivation	<b>.71</b>	<b>.48</b>	<b>.29</b>	<b>.61</b>	-	<b>.60</b>	<b>.55</b>	<b>-.46</b>	-.05
6. Engagement	<b>.49</b>	<b>.35</b>	<b>.25</b>	<b>.40</b>	<b>.56</b>	-	<b>.68</b>	<b>-.35</b>	-.03
7. Persistence	<b>.79</b>	<b>.30</b>	<b>.36</b>	<b>.57</b>	<b>.66</b>	<b>.63</b>	-	<b>-.75</b>	<b>-.13</b>
8. Procrastination	<b>-.71</b>	<b>-.29</b>	<b>-.23</b>	<b>-.49</b>	<b>-.56</b>	<b>-.37</b>	<b>-.79</b>	-	<b>.23</b>
9. Age	-.03	-.01	-.03	-.06	-.02	-.04	.00	-.01	-

*Note.* Correlations for Finland ( $N = 614$ ) are below the diagonal and correlations for Germany ( $N = 629$ ) are above the diagonal.

India, North Macedonia									
	1	2	3	4	5	6	7	8	9
1. Competence	-	<b>.67</b>	<b>.42</b>	<b>.52</b>	<b>.71</b>	<b>.26</b>	<b>.65</b>	<b>-.39</b>	-.05
2. Autonomy	<b>.71</b>	-	<b>.29</b>	<b>.48</b>	<b>.53</b>	<b>.21</b>	<b>.42</b>	<b>-.19</b>	.00
3. Relatedness	<b>.47</b>	<b>.49</b>	-	<b>.38</b>	<b>.24</b>	<b>.09</b>	<b>.36</b>	<b>-.23</b>	<b>-.08</b>
4. Positive emotion	<b>.56</b>	<b>.50</b>	<b>.48</b>	-	<b>.50</b>	<b>.10</b>	<b>.31</b>	<b>-.17</b>	-.03
5. Intrinsic learning motivation	<b>.78</b>	<b>.64</b>	<b>.40</b>	<b>.60</b>	-	<b>.33</b>	<b>.61</b>	<b>-.29</b>	-.06
6. Engagement	<b>.60</b>	<b>.50</b>	<b>.31</b>	<b>.36</b>	<b>.59</b>	-	<b>.54</b>	<b>-.10</b>	<b>-.12</b>
7. Persistence	<b>.74</b>	<b>.62</b>	<b>.42</b>	<b>.44</b>	<b>.66</b>	<b>0.78</b>	-	<b>-.57</b>	<b>-.10</b>
8. Procrastination	.04	<b>.09</b>	-.01	.05	<b>.09</b>	<b>0.23</b>	.05	-	<b>.12</b>
9. Age	<b>-.09</b>	-.03	<b>-.10</b>	-.04	<b>-.11</b>	<b>-.09</b>	<b>-.09</b>	<b>.09</b>	-

*Note.* Correlations for India ( $N = 2,618$ ) are below the diagonal and correlations for North Macedonia ( $N = 1,084$ ) are above the diagonal.

Poland, USA									
	1	2	3	4	5	6	7	8	9
1. Competence	-	<b>.43</b>	<b>.52</b>	<b>.43</b>	<b>.48</b>	.05	-.05	-.04	<b>.14</b>
2. Autonomy	<b>.51</b>	-	<b>.30</b>	<b>.26</b>	<b>.20</b>	.08	.07	.05	-.03
3. Relatedness	<b>.43</b>	<b>.34</b>	-	<b>.54</b>	<b>.31</b>	<b>.11</b>	.07	-.03	-.09
4. Positive emotion	<b>.56</b>	<b>.28</b>	<b>.46</b>	-	<b>.28</b>	.07	<b>.12</b>	-.05	-.01
5. Intrinsic learning motivation	<b>.53</b>	<b>.51</b>	<b>.38</b>	<b>.38</b>	-	-.05	-.02	-.03	<b>.30</b>
6. Engagement	.11	.10	.08	.04	<b>.45</b>	-	<b>.31</b>	<b>-.20</b>	-.01
7. Persistence	<b>.48</b>	<b>.30</b>	<b>.35</b>	<b>.19</b>	<b>.54</b>	<b>.51</b>	-	<b>.14</b>	-.04
8. Procrastination	<b>-.49</b>	<b>-.33</b>	<b>-.31</b>	<b>-.22</b>	<b>-.48</b>	<b>-.19</b>	<b>-.73</b>	-	-.02
9. Age	<b>-.25</b>	<b>-.19</b>	<b>-.23</b>	<b>-.21</b>	<b>-.18</b>	.01	<b>-.23</b>	<b>.25</b>	-

*Note.* Correlations for Poland ( $N = 379$ ) are below the diagonal and correlations for the USA ( $N = 503$ ) are above the diagonal.